



UNIVERSIDADE FEDERAL DE UBERLÂNDIA
INSTITUTO DE GENÉTICA E BIOQUÍMICA
PÓS-GRADUAÇÃO EM GENÉTICA E BIOQUÍMICA

**microRNAs EM *Solanum lycopersicum* E *Solanum pennellii*: MAQUINARIA
DE PROCESSAMENTO, PREDIÇÃO, VALIDAÇÃO E GENES ALVOS**

Aluna: Thaís Cunha de Sousa Cardoso

Orientador: Prof. Dr. Matheus de Souza Gomes

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Matheus de Souza Gomes

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RESUMO

O tomate cultivado, *Solanum lycopersicum*, é uma das olerícolas de maior importância na alimentação humana mundial e, ao lado do tomate selvagem, *Solanum pennelli*, são espécies bastante utilizadas no desenvolvimento de melhores cultivares comerciais. O estudo do genoma de plantas tornou-se uma ferramenta poderosa para auxiliar na elucidação dos processos biológicos ao nível celular. Uma das classes mais importantes de pequenos RNAs são os microRNAs (miRNAs), atuando na regulação de mRNA nas células, inibindo a sua tradução e/ou promovendo a sua degradação. Os métodos computacionais tem sido aplicados extensivamente para identificar novos miRNAs em diferentes organismos. Existem várias proteínas envolvidas na geração de miRNAs em plantas, destacando as proteínas ARGONAUTA e proteínas DICER, as quais possuem papéis centrais na maquinaria de processamento dos miRNAs. Este estudo teve como objetivo a busca, identificação, caracterização e validação dos genes envolvidos nas vias de processamento de miRNAs, bem como as moléculas de miRNAs, seus precursores e genes alvos em *S. lycopersicum* e *S. pennellii*, a partir de análises *in silico* e sequenciamento de nova geração. A metodologia de pesquisa utilizada foi baseada em análises computacionais e validação por sequenciamento (*small* RNA-seq - NGS). Foi possível identificar 65 proteínas em *S. lycopersicum* e 109 em *S. pennellii* envolvidas no processamento pequenos RNAs. Destas proteínas, 23 (*S. lycopersicum*) e 33 (*S. pennellii*) participam da via de processamento de miRNAs. Além disso, foram identificados 342 diferentes miRNAs maduros, 226 pré-miRNAs em 87 famílias, incluindo 192 miRNAs maduros não identificados anteriormente, pertencentes à 38 novas famílias em *S. lycopersicum*. Em *S. pennellii* foram encontrados 338 miRNAs maduros, 234 pré-miRNAs contidos em 85 famílias. O nosso estudo identificou, pela primeira vez, miRNAs em *S. pennellii*, sendo todos inéditos. A partir do sequenciamento, conseguimos validar 69 e 65 miRNAs maduros distribuídos em 29 e 28 famílias em *S. lycopersicum* e *S. pennellii*, respectivamente. Ainda, foram identificados 1310 diferentes genes alvos dos miRNAs em *S. lycopersicum* e 2772 em *S. pennellii*, sugerindo importantes papéis no desenvolvimento da planta,

adaptação ao stress, regulação da resposta hormonal, defesa contra patógenos e outros processos importantes para a biologia, reprodução e comercialização dessas espécies de tomate. Dessa forma, os nossos resultados ampliam o estudo dos miRNAs em plantas, proporcionando novos desafios para compreender processos essenciais na regulação baseada em miRNAs em tomate.

Palavras-chave: *Solanum lycopersicum*; *Solanum pennellii*, microRNAs, ARGONAUTA; DICER; análise *in silico*.

ABSTRACT

The cultivated tomato, *Solanum lycopersicum*, is one of the most important vegetable crops in global food and, next to the wild tomato *Solanum pennellii*, are species widely used in developing better cultivars. The study of the genome of plants has become a powerful tool to assist in the elucidation of the biological processes at the cellular level. One of the most important classes of small RNAs are microRNAs (miRNAs), acting on mRNA regulation in cells, inhibiting their translation and/or promoting its degradation. Computational methods have been applied extensively to identify novel miRNAs in different organisms. There are several proteins involved in the generation of miRNAs in plants, highlighting ARGONATAS proteins and DICERS proteins which have key roles in the processing machinery of miRNAs. This study aimed to search, identification, characterization and validation of genes involved in miRNA processing pathways as well as miRNAs molecules, their precursors and target genes in *S. lycopersicum* and *S. pennellii* from *in silico* analysis and next generation sequencing. The research methodology was based on computational analysis and sequencing for validation (small RNA-seq - NGS). We identified 65 proteins in *S. lycopersicum* and 109 in *S. pennellii* involved in small RNAs processing. Of these proteins, 23 (*S. lycopersicum*) and 33 (*S. pennellii*) miRNAs participate in the processing means. In addition, we identified 342 different mature miRNAs, 226 pre-miRNAs in 87 families, including 192 mature miRNAs not previously identified, belonging to 38 new families in *S. lycopersicum*. In *S. pennellii* we found 338 mature miRNAs, 234 pre-miRNAs contained in 85 families. All miRNAs found in *S. pennellii* were unpublished, being first identified in our study. From the sequencing, we validate 69 and 65 mature miRNAs distributed in 29 families and 28 in *S. lycopersicum* and *S. pennellii* respectively. Furthermore, we identified 1310 different miRNA target genes in *S. lycopersicum* and 2772 in *S. pennellii*, suggesting important roles in plant development, adaptation to stress, regulation of hormonal response, defense against pathogens and other critical processes of biology, reproduction, and marketing of these species of tomato. Thus, our results

expand the study of miRNAs in plants by providing new opportunities to understand essential in regulating processes based on miRNAs in tomato.

Keywords: *Solanum lycopersicum*; *Solanum pennellii*, microRNAs, ARGONAUTE, DICER, *in silico* analysis.

1 INTRODUÇÃO

1.1 O tomate

A família *Solanaceae* é uma das maiores famílias do reino vegetal. Ela é composta por cerca de 100 gêneros e mais de 3000 espécies que crescem em todos os habitats, desde florestas tropicais até desertos, concentrando uma maior diversidade na região Neotropical. Estão incluídas nesta família várias plantas de importância agrônômica e médica como a batata, beringela, pimentão, pimenta e tabaco, assim como o tomate (BAI; LINDHOUT, 2007; GERSZBERG; HNATUSZKO-KONKA, 2015; KNAPP, 2002; PERALTA et al., 2005; SATO; TABATA, 2016).

O tomate é uma das olerícolas mais importantes na alimentação humana mundial, além de atuar de forma significativa na economia, por meio da geração de empregos e renda, pelo seu grande volume de mão de obra e recursos em torno de sua cadeia produtiva e industrial (KNAPP, 2002; SATO; TABATA, 2016). A produção mundial do fruto chegou a 164 milhões de toneladas em 2013 (FAO, 2016). Atualmente a China tem a maior produção de tomate do mundo. O Brasil se encontra entre os 10 maiores produtores mundiais, sendo que em 2015 obteve uma produção de 3,69 milhões de toneladas do fruto, apresentando um aumento significativo da produção, cerca 81%, nos últimos 20 anos (FAO, 2016; IBGE, 2016).

A origem do tomate ocorreu na região ocidental das Américas Central e do Sul, envolvendo as regiões andinas do Equador, Bolívia, Peru, Colômbia e Chile (BAUCHET; CAUSSE, 2012; CARVALHO, 2014). A principal forma de consumo do fruto é *in natura*, caracterizando o tomate de mesa, o qual se destaca pelo seu alto valor nutritivo, apresentando 93% a 95% de água, baixo valor calórico, além de conter proteínas, carboidratos, cálcio, magnésio, ferro, zinco, fibras, vitamina C, potássio, licopeno e outros compostos essenciais na alimentação (BAUCHET; CAUSSE, 2012; KIM et al., 2011; TACO, 2011). O tomate possui também um grande mercado para o consumo do fruto processado de forma industrial, sobretudo na produção de molhos, extratos e sucos (MONTEIRO et al., 2008).

1.1.1 *Solanum lycopersicum* e *Solanum pennellii*

O gênero *Solanum* é um dos maiores gêneros dentre as angiospermas, contendo aproximadamente 1500 espécies (BAUCHET; CAUSSE, 2012). *Solanum lycopersicum*, o tomate cultivado, possui maior destaque por ser uma das frutas mais consumidas e estudadas (KIM et al., 2011; PEREZ-FONS et al., 2014). Além de sua importância como alimento, o tomate possui muitas características interessantes, como um fruto carnudo, folhas compostas, tricomas multicelular e glandular, associação com fungos micorrizicos, dentre outras características agrônômicas importantes que outras plantas modelo não possuem, como *Arabidopsis thaliana*, fazendo com que o tomate se torne uma planta modelo para espécies que apresentam essas características (BEDINGER et al., 2011; CAMPOS et al., 2010; GIOVANNONI, 2004; KIMURA; SINHA, 2008; KOBAYASHI et al., 2014).

Devido às características específicas, as variedades de tomate são constantemente melhoradas de acordo com a região, a forma de cultivo e a finalidade do fruto após a colheita (CARVALHO, 2014). Estes fatores são essenciais para que pesquisadores e produtores possam melhorar a qualidade e produtividade de cultivares de tomateiro (GERSZBERG; HNATUSZKO-KONKA, 2015). Embora o tomateiro tenha se adaptado a diferentes ambientes, grande parte das variedades necessita de um clima ameno, com temperaturas em torno de 21° a 24°C, e de uma área ensolarada, que não ultrapasse os 35°C para se obter uma produção de melhor qualidade (CAMARGO, 2006; CARVALHO, 2014; NAIKA et al., 2006). No entanto, esta cultura é suscetível ao ataque de insetos e mais de 200 doenças acarretadas por diversos tipos de patógenos, entre vírus, bactérias, fungos e nematóides (LUKYANENKO, 1991).

Para auxiliar no controle dessas doenças, a maioria dos produtores opta pela utilização de agentes químicos, sendo muitas vezes de alto custo e até ineficazes, além de seus prejuízos ambientais e no consumo alimentar (ERCOLANO et al., 2012). Uma alternativa para obter variedades melhoradas de tomateiro, com características desejadas pelos produtores e consumidores, tais como o aumento do potencial produtivo, precocidade, homeostase genética, uniformidade, qualidade do fruto e resistência a patógenos, insetos e estresses

abióticos, além de minimizar a utilização de produtos químicos, é o cruzamento do tomate cultivado com espécies selvagens (ALSEEKH et al., 2013; BOLGER et al., 2014; KAMENETZKY et al., 2010; KIMURA; SINHA, 2008; M. A. STEVENS; RICK C. M., 1986). Existem várias espécies conhecidas de tomate selvagem, consistindo em recursos genéticos subexplorados e de grande importância para o melhoramento, pesquisa e desenvolvimento da cultura (AFLITOS et al., 2014; BOLGER et al., 2014; KAMENETZKY et al., 2010; KIMURA; SINHA, 2008; MCDANIEL et al., 2016; MITTOVA; VOLOKITA; GUY, 2015; NOSENKO et al., 2016; PERALTA; KNAPP; SPOONER, 2005; SPOONER; PERALTA; KNAPP, 2005).

Solanum pennellii é uma espécie de tomate selvagem, endêmica das regiões andinas da América do Sul, onde evoluiu para prosperar em ambientes áridos. Essa espécie é relativamente distante da espécie domesticada de *S. lycopersicum*, estimada em 2,7 milhões de anos, e tem sido largamente utilizado para a construção e mapeamento de populações e linhagens devido à sua tolerância ao estresse e morfologia incomum (BOLGER et al., 2014; FERNANDEZ-POZO et al., 2015; KAMENETZKY et al., 2010; RICK; TANKSLEY, 1981). Essa espécie de tomate selvagem possui características bem específicas, como o sistema de acasalamento, a diversidade fitoquímica e a resistência a diferentes ambientes. Mesmo com essas especificidades, é sexualmente compatível com *S. lycopersicum*, oferecendo um conjunto de genes úteis para lidar com os desafios de reprodução existentes e gerando híbridos altamente produtivos possuindo as características almejadas. Atualmente, os produtores optam pelo plantio dessas cultivares híbridas, devido ao grande potencial dessas plantas que chegam ao mercado, ampliando a possibilidade de serem cultivadas com maior segurança (ALSEEKH et al., 2013; BAUCHET; CAUSSE, 2012).

Nesse sentido, um maior conhecimento sobre as bases moleculares do tomate é necessário, para obter eficiência e sucesso na seleção de marcadores associados a características de interesse (GERSZBERG; HNATUSZKO-KONKA, 2015). O progresso atual no sequenciamento do genoma do tomate vem gerando informações úteis para auxiliar no estudo das diversidades genéticas do tomate (AFLITOS et al., 2014; KIMURA; SINHA, 2008). Desta forma, *S. lycopersicum* foi escolhido como um alvo para o sequenciamento do genoma que foi concluído em

2012, a partir de uma colaboração internacional (SATO et al., 2012). Além disso, a disponibilidade do genoma de referência forneceu uma estrutura para a análise genômica de plantas da família *Solanaceae*, gerando uma fonte de informações importantes para o melhoramento molecular e tornando possível a investigação de polimorfismos de DNA e diferenças fenotípicas observadas em cultivares da espécie *S. lycopersicum* (HIRAKAWA et al., 2013; KOBAYASHI et al., 2014; SATO; TABATA, 2016). Além de *S. lycopersicum*, o genoma de *S. pennellii* também foi seqüenciado, fornecendo um recurso valioso para entender diversas características de destaque, como as mudanças em resposta ao déficit hídrico, resistência biótica e abiótica, maturação dos frutos e metabolismo (BOLGER et al., 2014; FERNANDEZ-POZO et al., 2015).

1.2 microRNAs

Embora muito se saiba sobre a biologia do tomate, relativamente pouco ainda é conhecido sobre a regulação da expressão de genes envolvidos no desenvolvimento da planta. Estudos recentes têm mostrado a importância da regulação gênica, envolvendo várias classes de pequenos RNAs, suas vias de processamento e sua atuação a nível celular em diferentes organismos (AXTELL, 2013; FOURACRE; POETHIG, 2016; KANG et al., 2014; MOAZED, 2009; VIDIGAL; VENTURA, 2015; WEN et al., 2014). Essas classes de pequenos RNAs incluem os pequenos RNAs de interferência (siRNAs), pequenos RNAs de interferência com repetições associadas (rasiRNAs), pequenos RNAs de interferência que atuam em “trans” (tasiRNAs), pequenos RNAs de interferência anti senso naturais (natsiRNAs), RNAs que interagem com a proteína PIWI (piRNAs) e microRNAs (miRNAs), que diferem em processamento, tamanho e função celular (AXTELL, 2013; BARTEL, 2004; FOURACRE; POETHIG, 2016; KIM, 2008; WEN et al., 2014).

Os principais representantes das classes de pequenos RNAs são os miRNAs, se destacando pelas suas diversas funções na regulação da expressão de RNAs mensageiros (mRNAs) a nível celular. Essa regulação pode ocorrer a partir da inibição do processo de tradução, por degradação do mRNA ou por silenciamento do gene, seja por complementaridade do alvo, ou sinalizando

modificações no DNA em regiões específicas do genoma, influenciando o processo de expressão gênica em diferentes organismos (AGRAWAL et al., 2003; BARTEL, 2004; BENTWICH, 2005; DOENCH; PETERSEN; SHARP, 2003; GOMES et al., 2009; RAO et al., 2009). Os miRNAs são pequenos RNAs endógenos com aproximadamente 21 nucleotídeos de comprimento quando maduro (BARTEL, 2004; CARTHEW; SONTHEIMER, 2009; WAHID et al., 2010a). Os genes precursores destes miRNAs são encontrados em plantas, principalmente em regiões intergênicas no genoma (BARTEL, 2004; CHEN, 2008; DE SOUSA CARDOSO et al., 2015; LANG et al., 2011a; ZHOU et al., 2011).

Em sua via de processamento, atuam diferentes proteínas capazes de gerar um miRNA específico, para que ocorra uma fina e característica regulação ao nível de genoma e/ou transcriptoma (AXTELL, 2013; DHIR; PROUDFOOT, 2013; KIM; HAN; SIOMI, 2009). Em plantas, o processamento do miRNA ocorre primeiramente no núcleo a partir da transcrição realizada pela RNA polimerase II (Pol II), resultando em um longo miRNA primário (pri-miRNA). Até pouco tempo, era considerado que os pri-miRNAs não possuíam a capacidade de codificar nenhuma proteína. No entanto, Lauressergues e colaboradores (2015), recentemente apresentaram que alguns pri-miRNAs codificam peptídeos que aumentam a produção de seus miRNAs (LAURESSERGUES et al., 2015; WATERHOUSE; HELLENS, 2015).

No processo de geração dos miRNAs maduros, as enzimas RIBONUCLEASE III (RNase III), DICER-LIKE 1 (DCL1), associadas a outras enzimas, SERRATE (SE) e HYPONASTIC LEAVES 1 (HYL1), clivam o pri-miRNA, gerando o precursor de miRNA (pré-miRNA) (AXTELL; WESTHOLM; LAI, 2011; BUDAK; AKPINAR, 2015; JONES-RHOADES; BARTEL; BARTEL, 2006; KAPOOR et al., 2008; WAHID et al., 2010a; WATERHOUSE; HELLENS, 2015). O pré-miRNA possui uma estrutura secundária característica, formando um grampo (*hairpin*) a partir de uma complementaridade imperfeita, contendo de 200-300 nucleotídeos de comprimento (KIDNER; MARTIENSSEN, 2005; WINTER et al., 2009). Mais uma vez as enzimas DCL1 e HYL1 atuam, clivando o pré-miRNA na extremidade que possui o hairpin, formando um miRNA/miRNA fita dupla, sendo, em seguida, metilado por uma metiltransferase HUA ENHANCER (HEN1), estabilizando a molécula e impedindo a sua uridilação e degradação posterior

pelas exonucleases SDN (*small RNA degrading nuclease*) (BUDAK; AKPINAR, 2015; LI et al., 2005; YANG et al., 2006). O miRNA maduro então é exportado para o citoplasma pela HASTY (HST), homóloga da proteína Exportina-5 (XPO5) (BARTEL, 2004; BRODERSEN; VOINNET, 2006; WAHID et al., 2010a). O miRNA fita dupla metilado é, na sequência, carregado por um complexo de enzimas liderado pela ARGONAUTA (AGO), momento em que ocorre o desanelamento da fita dupla, sendo uma fita degradada e a outra direcionada, junto ao complexo RISC, ao reconhecimento específico do mRNA alvo, com a finalidade de regular a expressão gênica: por inibição da tradução ou degradação do mRNA (AXTELL, 2013; KAPOOR et al., 2008; PETERS; MEISTER, 2007; WINTER et al., 2009).

Importantes funções biológicas, em plantas, são mediadas por miRNAs, dentre elas têm-se a adaptação das plantas quando submetidas a estresses, regulação do desenvolvimento foliar e floral, defesa, proliferação celular, apoptose, coordenação da homeostase, transdução de sinais, acumulação de fatores de transcrição e degradação de proteínas (AXTELL, 2013; JONES-RHOADES; BARTEL; BARTEL, 2006; LI; MAO, 2007; MALLORY; VAUCHERET, 2006a; MARTÍNEZ DE ALBA; ELVIRA-MATELOT; VAUCHERET, 2013; WAHID et al., 2010a). Dessa forma, o estudo do genoma e transcriptoma de plantas tem se tornado uma ferramenta muito poderosa para auxiliar na elucidação de processos biológicos bem como suas atuações a nível celular (AMBROS et al., 2003; SRIVASTAVA et al., 2014; ZHANG et al., 2005; ZHOU et al., 2008).

A publicação dos genomas de *S. lycopersicum* e *S. pennellii*, representou um grande avanço no estudo da biologia destas importantes espécies (BOLGER et al., 2014; FERNANDEZ-POZO et al., 2015; SATO; TABATA, 2016; SATO et al., 2012). No entanto, várias partes destes genomas necessitam ser profundamente estudadas e anotadas, uma vez que o sequenciamento do genoma e o depósito das sequências em bancos de dados públicos representam apenas os passos iniciais neste estudo. Diversas estratégias computacionais e experimentais têm sido utilizadas para identificação de miRNAs e as proteínas de seu processamento em vários organismos (HUANG et al., 2011; LI et al., 2010a; ZHANG et al., 2005). Os métodos computacionais têm sido bastante utilizados na identificação de genes uma vez que alguns transcritos são expressos apenas em determinadas condições, em células específicas, ou são pouco expressos, sendo

impossível sua identificação *in vitro*. Assim, as técnicas computacionais auxiliam no processo de descoberta de novos miRNAs, utilizando todas as informações contidas no genoma e/ou transcriptoma independentemente da amostragem. Além disso, esses métodos são úteis para a predição de precursores de miRNA e seus alvos. Contudo, muitos genes de miRNAs e seus alvos ainda não foram identificados em vários organismos, principalmente em plantas (LI et al., 2010a; SRIVASTAVA et al., 2014; ZHANG et al., 2005).

O envolvimento de pequenos RNAs no desenvolvimento vegetativo e do fruto, resposta ao estresse, defesa contra patógenos e parasitas em tomate têm recebido bastante atenção (CAO et al., 2014; JIN; WU, 2015; LIU et al., 2014; OUYANG et al., 2014; ZUO et al., 2012). A utilização de diversos métodos de homologia e biologia molecular vêm sendo cada vez mais implementados na caracterização de novos miRNAs (ITAYA et al., 2008; PILCHER et al., 2007; YIN et al., 2008; ZHANG et al., 2008; ZUO et al., 2012). Com o surgimento da tecnologia de sequenciamento do genoma e transcriptoma, começou a ser utilizado extensivamente esse método para a identificação de miRNAs em diversas espécies de plantas, tais como *A. thaliana* e *Oryza sativa*, devido sua alta precisão na descoberta de prováveis miRNAs em grande escala (FAHLGREN et al., 2007; JOHNSON et al., 2007; LU et al., 2005; MOXON et al., 2008; SUNKAR; GIRKE; ZHU, 2005; ZUO et al., 2012). Portanto, compreender as suas funções reguladoras destas pequenas moléculas ao nível celular pode abrir novos caminhos para o melhoramento de culturas importantes na produção mundial de alimentos. Este estudo trará, desta forma, uma grande contribuição para o melhor entendimento dos miRNAs, sua via de processamento e seu papel nas vias de regulação da expressão gênica dessas importantes espécies.

2 OBJETIVOS GERAIS E ESPECÍFICOS

2.1 Objetivos gerais

O objetivo deste estudo foi a busca, identificação e caracterização, por análise *in silico*, dos genes envolvidos nas vias de processamento de miRNAs, bem como das moléculas de miRNAs, seus precursores e alvos em *S. lycopersicum* e *S. pennellii*, utilizando sequências genômicas e transcriptômicas obtidas em bancos de dados públicos e por sequenciamento de nova geração.

2.2 Objetivos específicos

- Identificar os genes e as proteínas envolvidas na biogênese de miRNAs em *S. lycopersicum* e *S. pennellii*;
- Identificar e caracterizar os prováveis miRNAs maduros e seus precursores em *S. lycopersicum* e *S. pennellii*;
- Caracterizar as proteínas da via de miRNAs em *S. lycopersicum* e *S. pennellii* por meio da análise dos domínios conservados, sítios ativos, filogenia e alinhamento das proteínas;
- Predizer os genes alvos dos miRNAs identificados em *S. lycopersicum* e *S. pennellii*;
- Validar os miRNAs maduros identificados por sequenciamento de nova geração (NGS - smallRNA-seq).

3 MATERIAL E MÉTODOS

3.1 Análises *in silico*

3.1.1 *Predição dos genes e proteínas envolvidos na biogênese de pequenos RNAs, incluindo miRNAs em S. lycopersicum e S. pennellii*

Para a busca e identificação dos genes e suas prováveis proteínas envolvidos na biogênese de pequenos RNAs, incluindo miRNAs em *S. lycopersicum* e *S. pennellii* foram utilizadas ferramentas de alinhamento local BLAST (*Basic Local Alignment Search Tool* - <http://blast.ncbi.nlm.nih.gov/Blast.cgi>) e bancos de dados referência de Proteínas (refseq-protein) e Nucleotídeos (nt_nr), disponibilizados no NCBI (National Center for Biotechnology Information) (<http://www.ncbi.nlm.nih.gov/>), Phytozome v11 (<https://phytozome.jgi.doe.gov/>) e Sol Genomics Network (<https://solgenomics.net/>). As principais sequências de proteínas utilizadas como sequências de busca (“*queries*”) foram obtidas no banco de dados de proteínas referência dos organismos *A. thaliana* e *Solanum tuberosum*.

3.1.2 *Predição de miRNAs maduros e seus precursores (pré-miRNAs)*

Inicialmente, as sequências do genoma bruto de *S. lycopersicum* e *S. pennellii* foram obtidas nos bancos de dados Phytozome v11 (<https://phytozome.jgi.doe.gov/>) e PlaBi dataBase (http://www.plabipd.de/project_spenn/start.ep), respectivamente. Os arquivos de anotação do genoma também foram obtidos nos bancos de dados das respectivas espécies. A busca dos prováveis miRNAs e seus precursores foi realizada aplicando o método descrito por De Souza Gomes *et al.* (2011), adaptado para o genoma das espécies estudadas (DE SOUZA GOMES *et al.*, 2011). Inicialmente, foram obtidas sequências do genoma com potencial constituição de estruturas de *hairpin* ou similaridade com estruturas de precursores de miRNAs a partir dos programas blastn (NCBI) e Einverted (ferramenta EMBOSS), sendo este adaptado com parâmetros para os genomas estudados (máximo *repeat* de 336 nucleotídeos e valor *threshold* 25). Estas

sequências foram submetidas a uma sequência de aplicação de filtros para descartar sequências indesejáveis, permanecendo apenas aquelas correspondentes aos prováveis miRNAs. Os filtros aplicados foram baseados em características conservadas de precursores de miRNAs, bem como características de outras regiões conhecidas e que não possuem potencial para originar precursores de miRNAs. Esses filtros foram: Conteúdo de GC (guanina e citosina) entre 20% a 65%, Energia Mínima Livre (MFE), homologia com miRNAs maduros conservados, homologia com regiões repetitivas e homologia com RNAs não codificadores de proteínas, exceto miRNAs.

Para a busca dos prováveis miRNAs maduros nas sequências de precursores identificadas, fez-se o alinhamento das respectivas sequências dos prováveis precursores contra sequências depositadas no miRBase versão 21 (<http://www.mirbase.org/>), aceitando no máximo 5 mismatches na sequência madura final. Outros grupos de RNAs que não codificam proteínas (RNA ribossomal - rRNA, RNA transportador - tRNA, pequeno RNA nuclear - snRNA, pequeno RNA nucleolar - snoRNA, SL RNA, SRP, e RNase P) foram descartados com o auxílio do Rfam microRNA Registry (versão 12) (GARDNER et al., 2009). Posteriormente, sequências repetitivas foram descartadas pelo RepeatMasker 4.0.5 (<http://www.repeatmasker.org/>), e possíveis sequências precursoras de miRNAs reais foram separadas.

As sequências de pré-miRNAs identificadas em *S. lycopersicum* e *S. pennellii* foram caracterizadas de acordo com suas estruturas e parâmetros termodinâmicos: Energia Mínima Livre (MFE), Energia Mínima Livre Ajustada (AMFE), Índice de Energia Mínima Livre (MFEI), tamanho, conteúdo de A, conteúdo de U, conteúdo de C, conteúdo de G, de GC e AU, razão de GC, razão de AU, Energia Mínima Livre do Conjunto (MFEE), Diversidade do Conjunto (Diversidade), e Frequência da estrutura do MFE no Conjunto (Frequência). O ajuste de MFE (AMFE) foi determinado como o MFE de 100 nucleotídeos de comprimento de sequência e o índice de energia mínima de dobramento (MFEI), medido a partir da equação: $MFEI = [(AMFE) \times 100] / (G\% + C\%)$ (ZHANG et al., 2006a). A predição das estruturas secundárias dos pré-miRNAs, além do cálculo da diversidade, MFE, frequência do ensemble e MFE das estruturas secundárias foram realizados utilizando o RNAfold (<http://rna.tbi.univie.ac.at/cgi->

bin/RNAfold.cgi). O conteúdo de GC e outras propriedades estruturais foram definidos usando *scripts* Perl.

3.1.3 *Análise de domínios conservados, sítios ativos, filogenia e alinhamento de proteínas da via e precursores de miRNA em S. lycopersicum e S. pennellii*

Para as análises de conservação de domínios, sítios ativos e avaliação da estrutura primária, das sequências das preditas proteínas e dos precursores de miRNAs obtidos, utilizou-se o alinhamento múltiplo, por meio das ferramentas ClustalX 2.1 e ClustalW (LARKIN et al., 2007). Além do mais, foi utilizado o RNAalifold (<http://rna.tbi.univie.ac.at/cgi-bin/RNAalifold.cgi>), a fim de analisar o alinhamento das estruturas primária e secundária dos precursores de miRNAs com seus respectivos ortólogos. (LARKIN et al., 2007). Os alinhamentos múltiplos, utilizando as sequências de precursores, basearam-se em parâmetros ajustados de acordo com o tamanho e complexidade das sequências (gap opening: 22.50; gap extension: 0.83) (TAKANE et al., 2010). As logos das sequências das proteínas e dos precursores de miRNAs foram originadas a partir do WebLogo 2.8.2 (<http://weblogo.berkeley.edu/logo.cgi>) (CROOKS et al., 2004).

Os domínios conservados das preditas proteínas foram recuperados separadamente com o intuito de verificar através do alinhamento múltiplo a presença de resíduos de aminoácidos importantes para a respectiva proteína. Além disso, foi utilizado banco de dados de família de proteínas PFAM (<http://pfam.xfam.org/>), que auxiliou na identificação de domínios conservados e suas possíveis funções na via de biogênese de miRNAs, assim como a relação de similaridade entre as sequências usadas e suas ortólogas. O *Conserved Domain Database* (CDD) (<http://www.ncbi.nlm.nih.gov/Structure/cdd/wrpsb.cgi>) foi utilizado para a identificação da conservação e posição dos sítios ativos presentes nos domínios conservados das proteínas analisadas.

A análise filogenética foi realizada com o auxílio do programa MEGA5.2, utilizando o método Neighbor-joining para todas as sequências (SAITOU; NEI, 1987; TAMURA et al., 2011). Uma árvore consenso foi obtida utilizando “bootstrap” de 5000 réplicas para os precursores e 1000 réplicas para as proteínas, representando a história evolutiva do grupo de sequências analisadas.

A distância evolutiva para os miRNAs foi calculada, utilizando o modelo Kimura-2-parameter em unidades de base substituída por sítio. Para as prováveis proteínas usou-se o modelo Jones–Taylor–Thornton (JTT) (JONES; TAYLOR; THORNTON, 1992).

3.1.4 Predição dos genes alvos dos miRNAs identificados em *S. lycopersicum* e *S. pennellii*

Os alvos dos miRNAs identificados em *S. lycopersicum* e *S. pennellii* foram preditos usando a ferramenta psRNATarget (<http://plantgrn.noble.org/psRNATarget/>) (DAI; ZHAO, 2011). A fim de obter a menor taxa de previsão de falsos positivos para os genes alvos dos miRNA, o limiar de corte (*threshold*) utilizado foi rigoroso, sendo 3,0 para a “*Maximum expectation (Exp)*” (expectativa máxima). Os outros parâmetros utilizados foram os parâmetros padrões: “*Length for complementarity scoring (hspsize)*” (Comprimento para o scoring de complementaridade) - 20 pb; “*Top target genes for each small RNA*” (principais genes alvos para cada pequeno RNA) - 200; “*Target accessibility - allowed maximum energy to unpair the target site (UPE)*” (acessibilidade do alvo - permitido o máximo de energia para desemparelhar o sítio de destino) - 25; “*Flanking length around target site for target accessibility analysis*” (O comprimento em torno do local de destino para a análise da acessibilidade do alvo) – 17 pb antes/13 pb depois; “*Range of central mismatch leading to translational inhibition*” (intervalo de incompatibilidade central, levando à inibição de tradução): 9-11 nt. Para analisar os genes alvos dos miRNA preditos em *S. lycopersicum* e *S. pennellii*, os possíveis candidatos alvos dos transcritos foram recuperados a partir dos bancos de dados Phytozome v11 (<https://phytozome.jgi.doe.gov/>) e Sol Genomics Network (<https://solgenomics.net/>).

3.1.5 Análise in silico para amostras do sequenciamento

As sequências brutas foram obtidas a partir do sequenciamento de nova geração utilizando plataforma do Ion Torrent - Applied Biosystems e filtradas para

reads policlonais e sequências de baixa qualidade utilizando o software do sequenciador. Em seguida, os *reads* de pequenos RNAs foram filtrados para eliminar a presença de RNAs não codificantes de proteínas, exceto os prováveis miRNAs, como rRNA, tRNA, snRNA, snoRNA, entre outros utilizando a ferramenta blastn (<http://blast.ncbi.nlm.nih.gov/Blast.cgi>) e o banco de dados RFAM (<http://rfam.xfam.org/>) e scripts em Perl. Aqueles *reads* remanescentes foram considerados para as análises de busca de prováveis miRNAs maduros. O programa miRDeep2 foi utilizado para quantificar os miRNAs maduros nas sequências remanescentes de *S. pennellii* e *S. lycopersicum*. Para verificação e quantificação dos prováveis miRNAs maduros, além do miRDeep2, foram utilizados os precursores de miRNAs preditos no item 3.1.2 dos materiais e métodos e o genoma referência também obtido no item 3.1.2. O programa miRDeep2 forneceu a quantidade dos prováveis miRNAs maduros nas bibliotecas através da contagem dos *reads* que alinharam nas sequências dos prováveis precursores preditos.

3.2 Análises experimentais

As amostras de folhas de plantas adultas de *S. lycopersicum* e *S. pennellii* foram cedidas gentilmente pelo professor Wilson Roberto Maluf da Universidade Federal de Lavras (UFLA).

3.2.1 Sequenciamento de nova geração (Next Generation Sequencing – NGS) dos miRNAs em *S. lycopersicum* e *S. pennellii*

Inicialmente, foram coletadas folhas adultas das espécies de *S. lycopersicum* e *S. pennellii*, as quais foram inseridas imediatamente em nitrogênio líquido e posteriormente armazenadas a -80° até a utilização. Foi utilizado o Kit mirVana PARIS (Ambion) para a obtenção dos pequenos RNAs, extraídos das amostras de folhas. A biblioteca de transcritos dos pequenos RNAs foi construída conforme protocolo do kit Ion Total RNA-seq Kit v2 (Ambion) com pequenas alterações. As amostras dos pequenos RNAs foram então enriquecidas para a construção da biblioteca. Após a hibridização e ligação de adaptadores requeridos

pelo sistema Ion Personal Genome Machine® (PGM), foi realizada a reação de transcrição reversa para produção de cDNA. O cDNA foi selecionado por tamanho e purificado, usando beads magnéticas e então amplificado. Os fragmentos de DNA foram ligados a esferas (Ion Sphere®) para o sequenciamento de nova geração (Next Generation Sequencing – NGS). O template para o sequenciamento foi preparado no Ion OneTouch 2® e o sequenciamento foi realizado no Ion PGM, usando o chip Ion 318.

As únicas alterações realizadas foram no passo de eluição, em que foram transferidos 53µL das amostras resultantes da PCR, em seguida, foram adicionados 7µL de beads, 140µL de Binding Solution Concentrate e 120µL de álcool 100% (ao invés dos 110µL) – apenas uma vez. Então as amostras foram incubadas por 5 minutos a temperatura ambiente e colocadas na raque magnética com o ímã. O sobrenadante foi descartado e as beads de cada amostra foi lavada com 150µL de Wash Solution Concentrate com etanol. O sobrenadantes foi novamente removido e os todos foram incubados por 2 minutos a temperatura ambiente para remover o etanol residual. Fora da raque magnética, foram adicionados 15µL de água Nuclease-Free nos tubos (a 37°C). Em seguida, as amostras foram incubadas por 1 minuto, a temperatura ambiente e colocadas novamente na raque magnética por 1 minuto, ou até a amostra ficar transparente. Finalmente, 15µL do eluente foram coletados para novos tubos. Essas amostras eluídas foram então usadas na PCR em emulsão e no sequenciamento conforme procedimento.

4 RESULTADOS E DISCUSSÃO

4.1 A via de processamento dos miRNAs em *S. lycopersicum* e *S. pennellii*: análise de domínios conservados, sítios ativos e árvores filogenéticas

Para entender os prováveis papéis dos pequenos RNAs na regulação da expressão genética no tomateiro, buscou-se identificar inicialmente todos os possíveis componentes da maquinaria de processamento de pequenos RNAs nos genomas de *S. lycopersicum* e *S. pennellii*. Utilizando alinhamento local, bem como presença e disposição de domínios conservados foram identificadas 65 prováveis proteínas em *S. lycopersicum* e 109 em *S. pennellii* envolvidas na

biogênese de pequenos RNAs (siRNAs, tasiRNAs e miRNAs). Dentre elas, 15 e 16 proteínas pertencem a família das ARGONAUTAS (SlyAGO1.1, SlyAGO1.2, SlyAGO2.1, SlyAGO2.2, SlyAGO2.3, SlyAGO4.1, SlyAGO4.2, SlyAGO4.3, SlyAGO4.4, SlyAGO4.5, SlyAGO5, SlyAGO6, SlyAGO7, SlyAGO10.1, SlyAGO10.2, SpeAGO1.1, SpeAGO1.2, SpeAGO2.1, SpeAGO2.2, SpeAGO2.3, SpeAGO4.1, SpeAGO4.2, SpeAGO4.3, SpeAGO4.4, SpeAGO4.5, SpeAGO4.6, SpeAGO4.7, SpeAGO5, SpeAGO7, SpeAGO10, SpeAGO16); e 8 e 11 proteínas constituem a família das DICERS (SlyDCL1, SlyDCL2.1, SlyDCL2.2, SlyDCL2.3, SlyDCL2.4, SlyDCL3.1, SlyDCL3.2, SlyDCL4, SpeDCL1, SpeDCL2.1, SpeDCL2.2, SpeDCL2.3, SpeDCL2.4, SpeDCL2.5, SpeDCL2.6, SpeDCL3, SpeDCL4.1, SpeDCL4.2 e SpeDCL4.3), em *S. lycopersicum* e *S. pennellii*, respectivamente. Ambas famílias, AGO e DCL, foram considerados proteínas chave na maquinaria de processamento de pequenos RNAs em plantas (BOLOGNA; VOINET, 2014; JONES-RHOADES; BARTEL; BARTEL, 2006).

Das proteínas envolvidas no processamento de pequenos RNAs identificadas, 23 (*S. lycopersicum*) e 33 (*S. pennellii*) prováveis proteínas foram identificadas por participar da via de miRNAs: 2 ABA HYPERSENSITIVE 1 (ABH1), 2 CAP-BINDING PROTEIN 20 (CBP20), 2 DICER-LIKE 1 (DCL1), 2 DAWDLE (DDL), 2 EXORIBONUCLEASE 4 (XRN4), 2 HYPONASTIC LEAVES 1 (HYL1), 2 HUA ENHANCER 1 (HEN1), 2 SERRATE (SE), 3 ARGONAUTE 10 (AGO10), 4 ARGONAUTE 1 (AGO1), 4 SQUINT (SQN), 4 VARICOSE (VCS), 5 HASTY (HST) e 20 EXOSOME (EXO) (Tabela S1 e Tabela S2). A identificação dessas proteínas em *S. lycopersicum* e *S. pennellii*, corrobora com a descrição da via de biogênese dos miRNA em outras espécies de plantas, sugerindo que *S. lycopersicum* e *S. pennellii* possuem uma via biogênese de miRNAs semelhante à outras espécies de plantas, tais como *A. thaliana*, *P. vulgaris* e *O. sativa* (BOLOGNA; VOINET, 2014; DE SOUSA CARDOSO et al., 2015; MALLORY; VAUCHERET, 2010; WAHID et al., 2010a).

A presença destas proteínas em diferentes estudos tem mostrado uma alta conservação dos componentes da via de processamento de miRNA em plantas, realizando funções essenciais para a regulação pós-transcricional de mRNAs em diferentes células (BOLOGNA; VOINET, 2014; WAHID et al., 2010a). De fato, a análise revelou que os componentes desta via foram altamente conservados ao

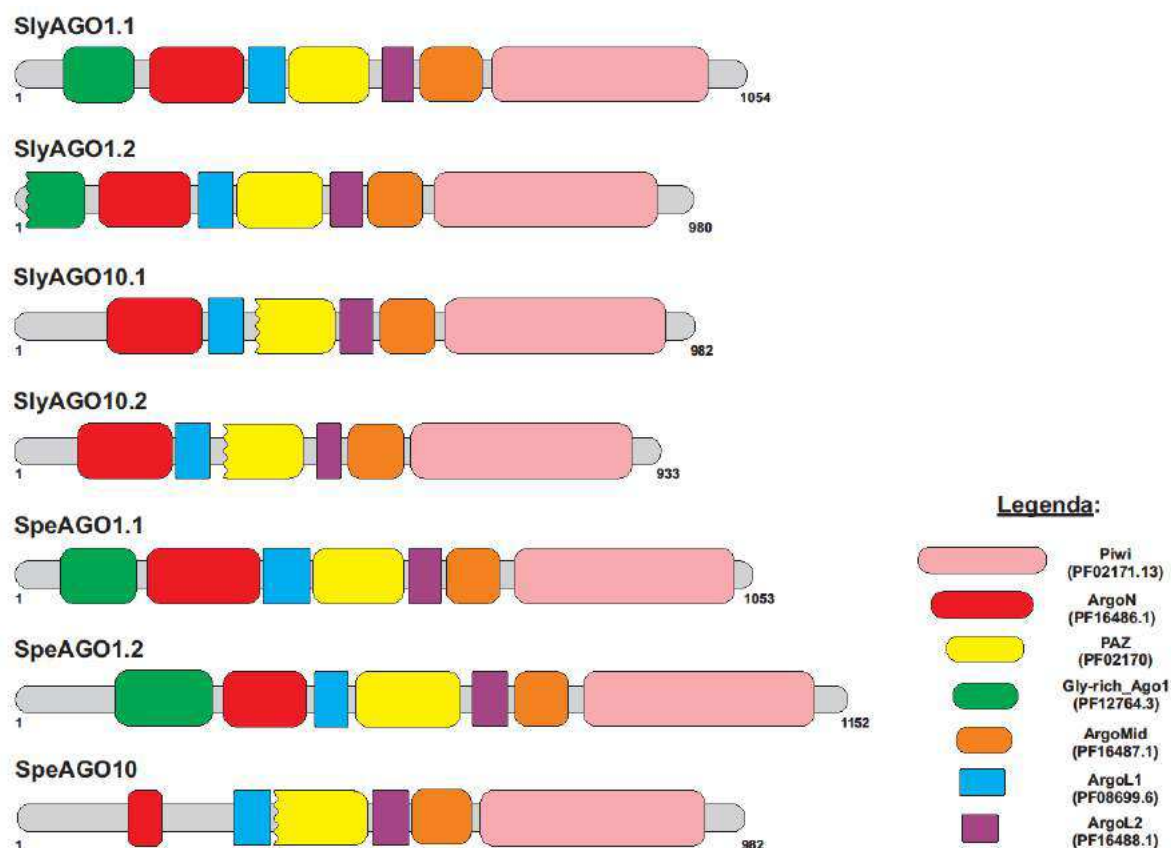
nível dos aminoácidos nas duas espécies de estudo, bem como na distribuição de domínios, localização dos sítios ativos e na distribuição filogenética quando comparadas com proteínas ortólogas em outras espécies de plantas. Este padrão foi observado em ambas famílias de proteínas, ARGONAUTA e DICER.

4.1.1 Proteínas ARGONAUTA

Foram encontradas 15 proteínas AGO no genoma de *S. lycopersicum*: SlyAGO1.1, SlyAGO1.2, SlyAGO2.1, SlyAGO2.2, SlyAGO2.3, SlyAGO4.1, SlyAGO4.2, SlyAGO4.3, SlyAGO4.4, SlyAGO4.5, SlyAGO5, SlyAGO6, SlyAGO7, SlyAGO10.1 e SlyAGO10.2, e 16 no genoma de *S. pennellii*: SpeAGO1.1, SpeAGO1.2, SpeAGO2.1, SpeAGO2.2, SpeAGO2.3, SpeAGO4.1, SpeAGO4.2, SpeAGO4.3, SpeAGO4.4, SpeAGO4.5, SpeAGO4.6, SpeAGO4.7, SpeAGO5, SpeAGO7, SpeAGO10 e SpeAGO16. As proteínas AGO identificadas neste trabalho corroboram com proteínas AGO encontradas em outras espécies de plantas, tais como *O. sativa*, *A. thaliana* e *P. vulgaris*. Em *O. sativa* foram identificadas 19 proteínas AGO (KAPOOR et al., 2008), em *P. vulgaris* encontraram 17 (DE SOUSA CARDOSO et al., 2015), enquanto que em *A. thaliana* foram identificadas 10 proteínas AGO (BOLOGNA; VOINET, 2014; MALLORY; VAUCHERET, 2010). No entanto, entre todas as proteínas AGO identificadas em plantas, apenas a AGO1 e AGO10 mostraram atividade na biogênese dos miRNAs (BOLOGNA; VOINET, 2014; MALLORY; VAUCHERET, 2010).

As proteínas SlyAGO1.1/1.2 e SpeAGO1.1/1.2 apresentaram os domínios Gly-rich_Ago1, ArgoN, ArgoL1, PAZ, ArgoL2, ArgoMid e Piwi nas posições 70-174, 185-328, 338-388, 394-520, 531-576, 587-661, 681-1000 / 18-100, 111-254, 264-314, 320-446, 457-502, 513-587, 607-926 e 69-173, 193-327, 337-387, 393-518, 529-575, 586-660, 680-999 / 160-272, 292-426, 436-486, 492-617, 685-759, 685-759, 779-1098, respectivamente (Figura 1 e Tabela S3). As proteínas SlyAGO10.1/10.2 e SpeAGO10 apresentaram os domínios ArgoN, ArgoL1, PAZ, ArgoL2, ArgoMid e Piwi. A localização destes domínios em SlyAGO10.1/10.2 e SpeAGO10 estavam nas posições 127-270, 280-330, 342-462, 473-518, 529-606, 621-940 / 82-224, 234-284, 302-416, 429-472, 483-561, 575-891 e 136-270, 280-

Figura 1 – Distribuição dos domínios conservados nas prováveis proteínas AGO de *S. lycopersicum* e *S. pennellii*.



Os domínios conservados Piwi, um dos principais domínios contidos em proteínas AGOs, identificados nas proteínas SlyAGO1.1, SlyAGO1.2, SpeAGO1.1, SpeAGO1.2, SlyAGO10.1, SlyAGO10.2 e SpeAGO10, apresentaram os sítios ativos contendo uma importante tríade catalítica DDH (aspartato/aspartato/histidina) existente nas proteínas da família ARGONAUTA e proteínas com função de RNase H (KAPOOR et al., 2008; MALLORY; VAUCHERET, 2010) (Figura 2). Estes resultados corroboram com proteínas AGO1 e AGO10 encontradas em *A. thaliana* e *P. vulgaris* (DE SOUSA CARDOSO et al., 2015; KAPOOR et al., 2008; MALLORY; VAUCHERET, 2010).

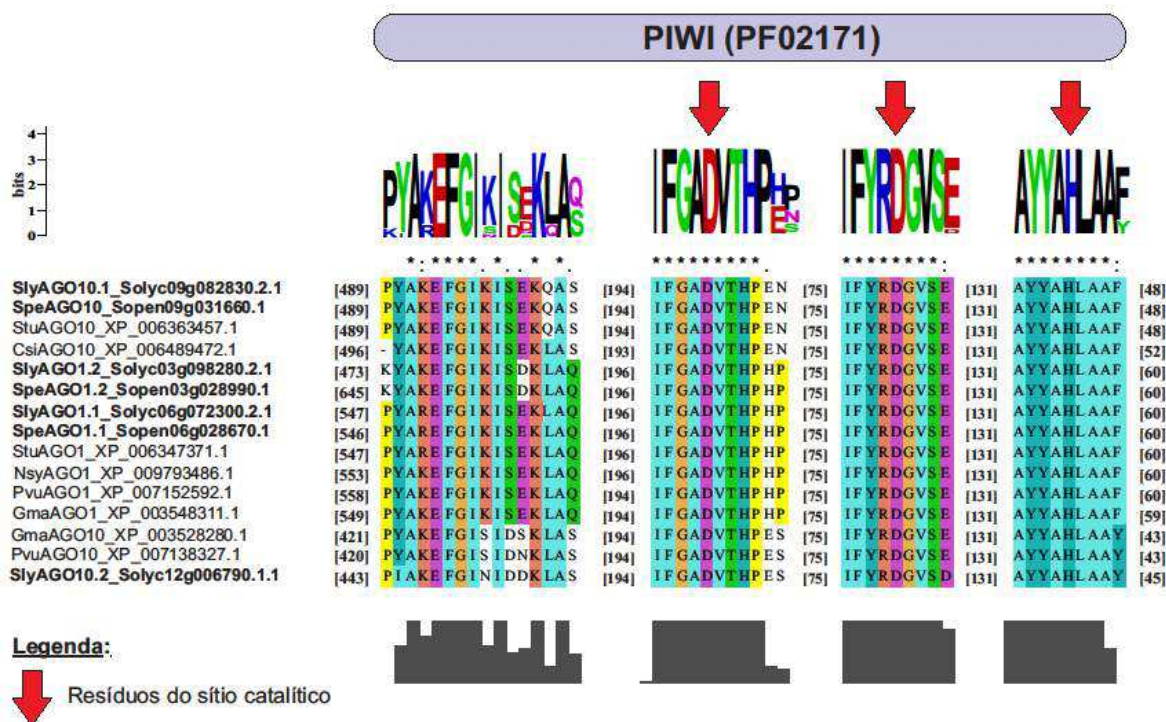
A tríade catalítica DDH das proteínas SlyAGO1.1, SlyAGO1.2, SpeAGO1.1, SpeAGO1.2, SlyAGO10.1, SlyAGO10.2 e SpeAGO10, foi encontrada nas posições Asp764-Asp850-His990, Asp690-Asp776-His916, Asp763-Asp849-His989, Asp862-Asp948-His1088, Asp704-Asp790-His930, Asp658-Asp744-His884, Asp704-Asp790-His930, respectivamente. Os domínios conservados e

sítios ativos encontrados em Sly/SpeAGO1 e Sly/SpeAGO10 mostraram alta conservação quando comparados com proteínas AGO1 e AGO10 em outras espécies de plantas como *A. thaliana*, *O. sativa*, *S. tuberosum*, *G. Max* e *P. vulgaris* (BAUMBERGER; BAULCOMBE, 2005; CONTRERAS-CUBAS et al., 2012; DE SOUSA CARDOSO et al., 2015; KAPOOR et al., 2008), inclusive em protozoários como *Leishmania* (PADMANABHAN et al., 2012). Esta elevada conservação dos domínios e os resíduos de aminoácidos dos sítios ativos pode estar diretamente relacionada com a função desempenhada pelas proteínas AGO1 e AGO10 na via de processamento de miRNAs em diferentes espécies.

Para entender a diversificação das proteínas ARGONAUTAS em *S. lycopersicum* e *S. pennellii*, foi realizada uma análise filogenética usando suas sequências de aminoácidos (Figura 3). A análise filogenética das proteínas Sly/SpeAGO1 e Sly/SpeAGO10 mostrou que estas proteínas foram distribuídas na árvore filogenética mais próximas de suas respectivas proteínas ortólogas de outras espécies de plantas, tais como melo, *S. tuberosum*, *Nicotiniana sylvestris*, *Glycine max*, *P. vulgaris*, *Citrus sinensis*, *Vitis vinifera*, *Vigna radiata*, *Medicago truncatula*, *Tarenaya hassleriana*, *Cucumis sativus* e *Sesamum indicum*.

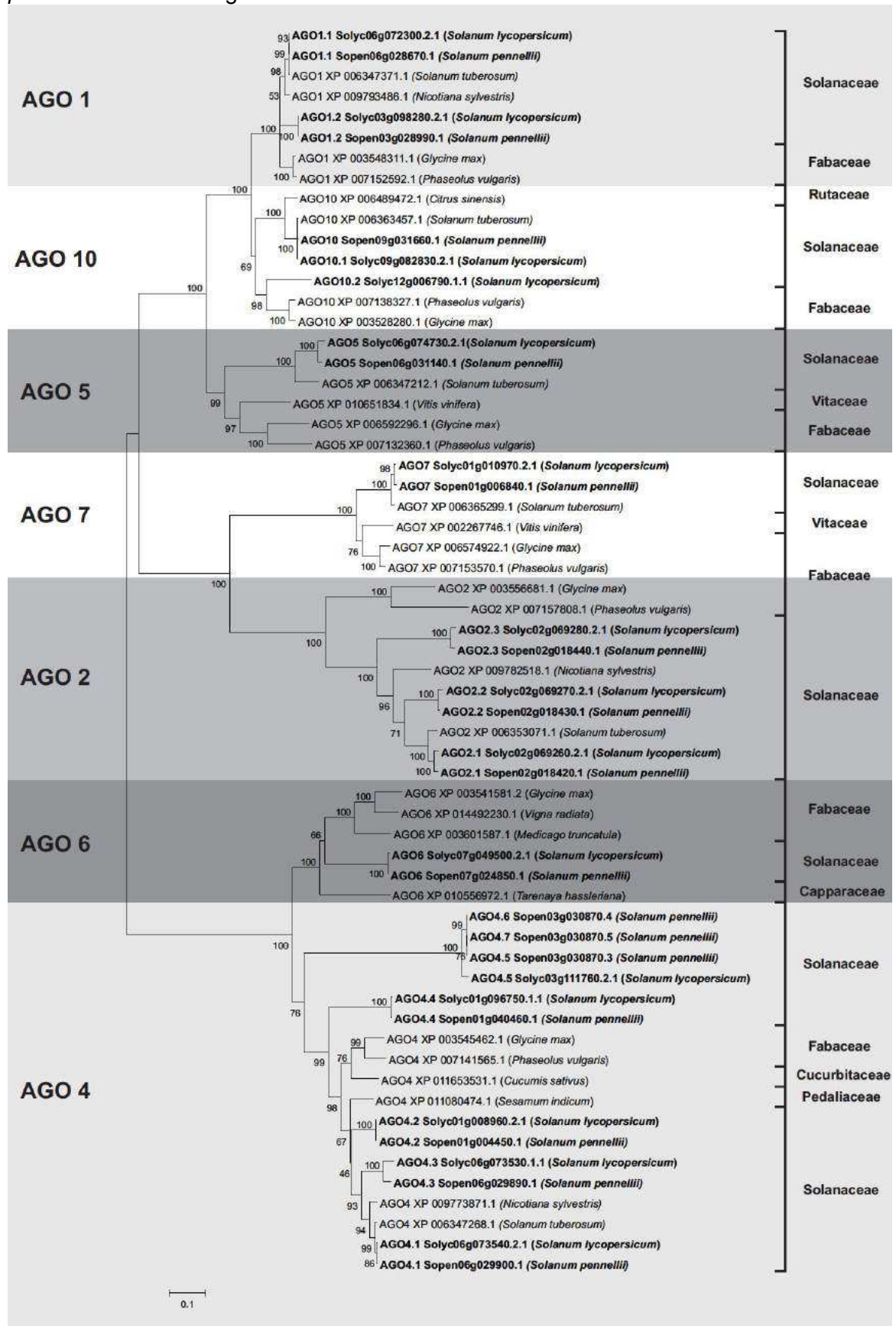
A árvore filogenética foi dividida em 7 clados distintos (AGO1, AGO2, AGO4, AGO5, AGO6, AGO7 e AGO10). A distribuição das espécies dentro de cada clado na árvore mostrou uma grande semelhança com a árvore da vida. Além disso, a filogenia apresentou uma relação entre as proteínas parálogas da família da AGO, o que demonstra uma grande similaridade entre as famílias AGO1, AGO5 e AGO10; AGO2 e AGO7; AGO6 e AGO4, corroborando com a distribuição filogenética em *A. thaliana* e *P. vulgaris* (BOLOGNA; VOINET, 2014; DE SOUSA CARDOSO et al., 2015; HÖCK; MEISTER, 2008). Em geral, a filogenia das espécies corroboram com filogenia de espécies atualmente aceitas (STEVENS, 2001), sugerindo que o nível de conservação dos membros da família AGO em angiospermas é alta. Esta similaridade mostrou uma grande relação entre proteínas AGO1 e AGO10, sendo as únicas proteínas da família AGO que participam da via de processamento de miRNA em plantas (BOLOGNA; VOINET, 2014; MALLORY; VAUCHERET, 2010).

Figura 2 – Análise Weblogo dos sítios ativos e os seus resíduos de aminoácidos que flanqueiam o domínio conservado Piwi (PF02171) das proteínas AGO de *S. lycopersim*, *S. pennellii* e seus ortólogos. As setas vermelhas mostram os resíduos de aminoácidos dos sítios ativos (tríade catalítica Asp-Asp-His). A altura de cada símbolo de aminoácidos indica a conservação dos resíduos naquela posição. O asterisco indica os aminoácidos conservados na posição especificada. Csi - *Citrus sinensis*, Gma - *Glycine max*, Pvu - *Phaseolus vulgaris*, Stu – *Solanum tuberosum* e Nsy - *Nicotiana sylvestris*.



As proteínas AGO têm um papel fundamental no silenciamento transcricional e pós-transcricional mediado por pequenos RNAs nas plantas. A função destas proteínas na via de miRNAs têm sido associada com o complexo RISC (RNA-induced silencing complex), permitindo que a degradação ou a inibição da tradução do mRNA a partir da complementaridade de bases entre as sequências específicas de miRNAs e o RNAm alvo (BOLOGNA; VOINET, 2014; MALLORY; VAUCHERET, 2006b, 2010).

Figura 3 – Árvore filogenética das proteínas AGO identificadas em *S. lycopersim*, *S. pennellii* e seus ortólogos.

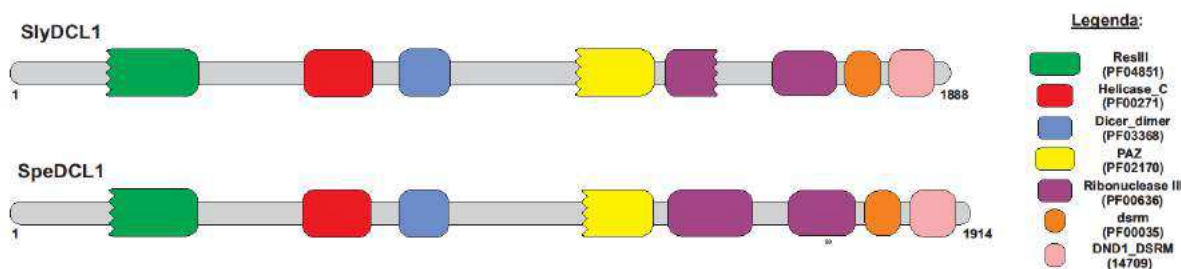


4.1.2 Proteínas DICER

Os outros importantes componentes catalíticos do processamento de miRNAs em plantas são as proteínas DCL. Em *S. lycopersicum* e *S. pennellii* foram identificadas 8 (SlyDCL1, SlyDCL2.1, SlyDCL2.2, SlyDCL2.3, SlyDCL2.4, SlyDCL3.1, SlyDCL3.2 e SlyDCL4) e 11 (SpeDCL1, SpeDCL2.1, SpeDCL2.2, SpeDCL2.3, SpeDCL2.4, SpeDCL2.5, SpeDCL2.6, SpeDCL3, SpeDCL4.1, SpeDCL4.2 e SpeDCL4.3) prováveis proteínas pertencentes a família DCL, respectivamente. As proteínas identificadas corroboram com proteínas DCL encontradas em outras espécies de plantas: 4 DCL foram descobertas no genoma de *A. thaliana* (BOLOGNA; VOINNET, 2014; LIU; FENG; ZHU, 2009), 6 em *P. vulgaris* (DE SOUSA CARDOSO et al., 2015), enquanto que em *O. sativa* foram encontradas, pelo menos, 5 DCL (KAPOOR et al., 2008; LIU; FENG; ZHU, 2009; MARGIS et al., 2006).

As proteínas SlyDCL1 e SpeDCL1, únicas DCL envolvidas no processamento de miRNAs, apresentaram em sua estrutura, os domínios conservados ResIII (DEAD-like), Helicase C, Dicer Dimer (também chamado de DUF283), PAZ, Ribonuclease III (RNase IIIa), Ribonuclease III (RNase IIIb), dsrm e DND1 DSRM, nas posições 259-420, 656-773, 848-936, 1214-1349, 1386-1468, 1586-1699, 1726-1784, 1811-1883; e 256-420, 656-773, 848-936, 1214-1349, 1386-1534, 1612-1725, 1752-1810, 1837-1909, respectivamente (Figura 4 e Tabela S4). A presença e a organização desses domínios é muito semelhante ao encontrado em proteínas ortólogos de outras espécies de plantas (DE SOUSA CARDOSO et al., 2015; LIU; FENG; ZHU, 2009; MARGIS et al., 2006), de modo que as funções de SlyDCL1 e SpeDCL1 também são presumivelmente conservadas. De acordo com estudos recentes, especialmente em proteínas DCL, a distância entre os domínios conservados RNase III e PAZ, são sugeridos como sendo a maior determinante do comprimento resultante do miRNA processado (BUDAK; AKPINAR, 2015; LIU; FENG; ZHU, 2009; ROGERS; CHEN, 2013), demonstrando a importância da distribuição e conservação dos domínios na atuação dessas proteínas a nível celular.

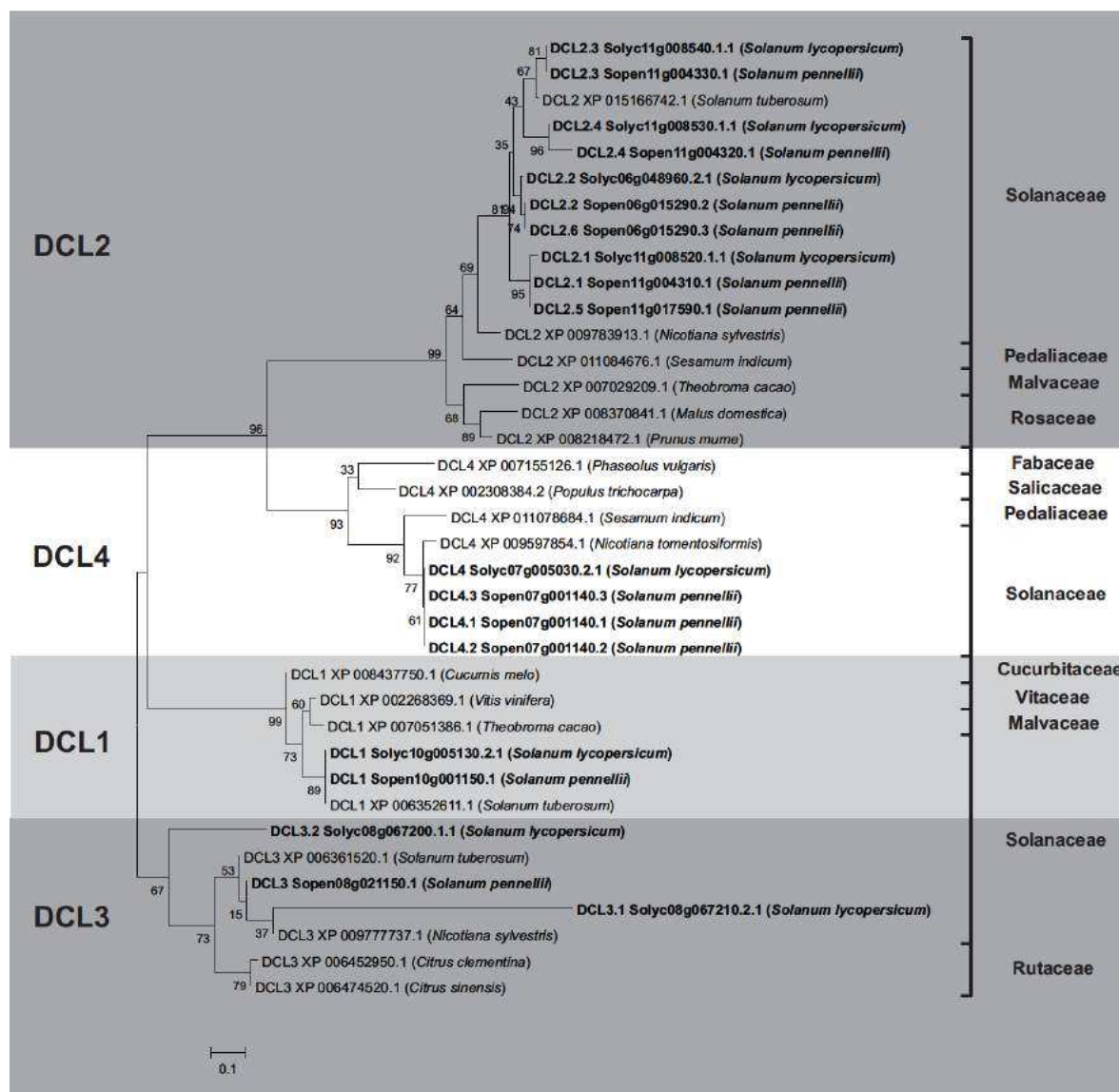
Figura 4 - Distribuição dos domínios conservados nas prováveis proteínas DCL de *S. lycopersicum* e *S. pennellii*.



Foram encontrados dois domínios RNase III em proteínas SlyDCL1 e SpeDCL1. Os dois domínios (RNase IIIa e RNase IIIb) possuem os mesmos resíduos catalíticos nas duas espécies de tomate estudadas: glutamato (E), aspartato (D), aspartato (D), glutamato (E), representando o sítio ativo EDDE do domínio, também identificados em proteínas DCL1 de outras espécies de plantas (JI, 2008). Estes resíduos foram localizados nos domínios RNase IIIa nas posições Glu1591-Asp1595-Asp1687-Glu1690 e Glu1617-Asp1621-Asp1713-Glu1716 e nos domínios RNase IIIb nas posições Glu1390-Asp1394-Asp1465-Glu1468 e Glu1390-Asp1394-Asp1521-Glu1524 das proteínas SlyDCL1 e SpeDCL1, respectivamente (Figura 5). Estes domínios conservados RNase III são necessários para a função de clivagem e processamento de dsRNAs (RNA de fita dupla) na via de miRNAs em plantas (LIU; FENG; ZHU, 2009; MARGIS et al., 2006).

Para determinar a relação evolutiva entre as prováveis proteínas DCL de *S. lycopersicum*, *S. pennellii* e suas espécies ortólogas em *S. tuberosum*, *N. sylvestris*, *S. indicum*, *T. cacao*, *Malus domestica*, *Prunus mume*, *P. vulgaris*, *Populus trichocarpa*, *Nicotiana tomentosiformis*, *C. melo*, *V. vinifera*, *Citrus Clementina* e *C. sinensis*, foi realizado uma análise filogenética (Figura 6). As proteínas foram agrupadas, através de alinhamento global, em quatro clados distintos (DCL1, DCL2, DCL3 e DCL4) e mostrou uma grande semelhança com a árvore evolucionária da vida destas espécies dentro de cada clado. A relação entre as proteínas parálogas da família DICER apresentou uma grande similaridade entre as proteínas DCL2 e DCL4, estando também próximo de DCL1 e mais distantes de DCL3, corroborando com a distribuição das famílias DCL em outras espécies de plantas (KAPOOR et al., 2008; LIU; FENG; ZHU, 2009).

Figura 6 – Árvore filogenética das proteínas DCL identificadas em *S. lycopersim*, *S. pennellii* e seus ortólogos.



4.2 miRNAs maduros, seus precursores e genes alvo em *S. lycopersicum* e *S. pennellii*

Dado que a maquinaria de processamento de miRNAs parece ser bem conservada em *S. lycopersicum* e *S. pennellii*, buscou-se identificar tanto sequências maduras e precursoras de miRNAs a partir de dados disponíveis em banco de dados públicos (Phytozome v11 e PlaBi) e dos dados gerados no sequenciamento de nova geração (smallRNA-seq) dessas duas espécies, além de prever e definir a natureza dos seus prováveis genes alvos.

Ao aplicar um algoritmo otimizado e específico (ver material e métodos), foram identificadas 342 sequências de miRNAs maduros e 226 miRNAs precursores, distribuídos em 87 famílias distintas de miRNAs nas bases de dados do genoma de *S. lycopersicum* (Tabela S5). Em *S. pennellii* foram identificadas 338 sequências de miRNAs maduros, e 234 miRNAs precursores contidos em 85 diferentes famílias de miRNAs (Tabela S6).

No que diz respeito à localização e distribuição dos genes precursores de miRNAs no genoma, foi possível identificar em nosso estudo, que 74 miRNAs em *S. lycopersicum* (Tabela S7) e 74 em *S. pennellii* (Tabela S8) foram organizados em clusters (10kb como a distância máxima entre dois genes de miRNAs para considerá-los agrupados em cluster). Outros trabalhos também mostraram a presença de miRNAs distribuídos em clusters em plantas: 54 miRNAs em clusters foram encontrados em *A. thaliana*, 40 em *P. trichocarpa*, 103 em *O. sativa*, 32 em *Sorghum bicolor* (ZHOU et al., 2011) e 25 miRNAs em *P. vulgaris* (DE SOUSA CARDOSO et al., 2015). Além disso, foram identificadas 54 miRNAs em *S. lycopersicum* (Tabela S7) e 48 em *S. pennellii* (Tabela S8) que foram organizadas em clusters, mas estão localizados em cadeias antiparalelas. Clusters antiparalelos de miRNA também foram encontrados, ocasionalmente, em outros genomas de plantas depositados no miRBase (versão 21, de 2016), como os miR399a e miR399e de *O. sativa*, miR169e e miR169d de *A. thaliana* e miR167e e miR167i de *G. max*.

Entre os 342 diferentes miRNAs maduros e 226 miRNAs precursores encontrados em *S. lycopersicum*, apenas 62 e 49, respectivamente, foram depositados no miRBase, versão 21 de 2016, sendo, desta forma, a maioria inéditos. Nosso estudo, identificou pela primeira vez na literatura miRNAs maduros e seus precursores em *S. pennellii*, considerando, desta forma, todos inéditos. Dos miRNAs identificados foram encontradas diferentes quantidades de sequências maduras dentro de cada família em *S. lycopersicum* e *S. pennellii* (Tabela 1).

Tabela 1 – Quantidade de sequências maduras distintas encontradas dentro de cada família de miRNA em *S. lycopersim* e *S. pennellii*.

Família	Quantidade de miRNAs maduros distintos	
	<i>S. lycopersicum</i>	<i>S. pennellii</i>
MIR1128	1	1
MIR1446	2	2
MIR156/157	21	24
MIR159	4	-
MIR160	6	11
MIR162	4	4
MIR164	5	6
MIR166	10	10
MIR167	10	9
MIR168	5	4
MIR169	13	16
MIR170/171	16	22
MIR172	22	20
MIR1886	3	6
MIR1917	2	4
MIR1918	1	1
MIR1919	3	4
MIR2101	1	-
MIR2111	2	2
MIR2604	1	-
MIR319	13	16
MIR3627	2	4
MIR390	4	4
MIR393	2	2
MIR394	3	6
MIR395	6	4
MIR396	8	6
MIR397	4	2
MIR398	3	8
MIR399	16	24
MIR403	4	4
MIR408	5	4
MIR437	1	-
MIR4376	2	2
MIR477	6	6
MIR479	-	2
MIR482	8	12
MIR5014	1	1
MIR5162	1	-
MIR5174	1	5
MIR5282	2	-
MIR530	1	1
MIR5300	1	1
MIR5303	8	14
MIR5304	2	-
MIR5368	1	1
MIR5532	2	-
MIR6024	2	2

MIR6027	2	2
MIR6144	-	1
MIR6440	-	1
MIR6478	-	1
MIR7122	2	-
MIR7696	1	1
MIR7805	1	-
MIR7980	3	6
MIR7981	2	2
MIR7983	12	14
MIR7984	3	5
MIR7985	1	-
MIR7987	2	1
MIR7990	3	2
MIR7992	2	1
MIR7993	1	4
MIR7997	1	3
MIR7998	-	1
MIR8001	4	3
MIR8005	-	3
MIR8006	3	1
MIR8007	3	2
MIR8008	9	9
MIR8011	3	5
MIR8013	1	1
MIR8016	-	1
MIR8019	4	1
MIR8020	1	1
MIR8021	3	1
MIR8024	-	7
MIR8025	2	2
MIR8026	-	1
MIR8032	1	2
MIR8033	2	-
MIR8036	-	1
MIR8038	2	1
MIR8039	2	1
MIR8042	-	1
MIR8045	3	1
MIR8047	-	1
MIR8051	1	1
MIR8172	1	-
MIR8175	1	2
MIR827	2	2
MIR828	1	2
MIR845	1	-
MIR9469	-	2
MIR9471	4	2
MIR9472	2	-
MIR9473	4	3
MIR9476	4	4
MIR9477	-	2
MIR9478	2	-

Todos miRNAs identificados foram analisados quanto às suas características estruturais e termodinâmicas. Os precursores de miRNAs de *S. lycopersicum* apresentaram uma MFE com uma média de -56,50 kcal/mol, possuindo valores entre -98,2 e -21,8 kcal/mol. Outros parâmetro como AMFE e MFEI, obtiveram média de -39,38 kcal/mol e de 1,03, respectivamente (Tabela S9). Em *S. pennellii*, os pré-miRNAs apresentaram uma MFE com uma média de -55,60 kcal/mol, com valores entre -93,7 e -23,3 kcal/mol, a média da AMFE foi de -39,13 kcal/mol e a de MFEI foi de 1,02 (Tabela S10). Os resultados das características estruturais e termodinâmicas de *S. lycopersicum* e *S. pennellii* foram semelhantes aos valores relatados em outros estudos com plantas (NAGESHBABU et al., 2012; SUNKAR; JAGADEESWARAN, 2008a; ZHANG et al., 2006b; ZHANG; PAN; STELLWAG, 2008). Em plantas, os valores para a MFE em miRNAs precursores são tipicamente menores que -18kcal/mol (NAGESHBABU et al., 2012). Além disso, estudos têm demonstrado que as sequências de RNAs que apresentam média de AMFE em torno de -45.93 ± 9.43 kcal/mol são considerados miRNAs reais, dado que estes valores de AMFE encontrados em precursores de miRNAs apresentavam um valor negativo maior do que nas outras classes de RNAs não codificantes, com por exemplo tRNAs e rRNAs (ZHANG et al., 2006b). Os valores de MFEI com um valor médio de 0,97, acima de 0,85 foram sugeridos para potenciais precursores de miRNAs em plantas, o que os distingue dos outros RNAs, corroborando com os nossos resultados (ZHANG et al., 2006b).

De todos os miRNAs encontrados em *S. lycopersicum*, foram identificados 192 novos miRNAs maduros, 163 novos precursores e 38 novas famílias de miRNAs em comparação com estudos publicados até o momento e depositados no miRBase, versão 21 de 2016 (DIN; BAROZAI, 2014; FAN et al., 2015; ITAYA et al., 2008; KIM et al., 2011; LANG et al., 2011a; LUAN; WANG; LIU, 2014; MOXON et al., 2008; PRADHAN et al., 2015; SUNKAR; JAGADEESWARAN, 2008b; VALIOLLAHI et al., 2014; XU; GUO; DONGQIAN, 2013; XU; GUO; LIU, 2013; YIN et al., 2008; ZHANG et al., 2006a, 2008; ZUO et al., 2012). Além disso, foram identificados 1310 diferentes genes alvos dos miRNAs encontrados em *S. lycopersicum* (Tabela S11) e 2772 em *S. pennellii* (Tabela S12).

4.2.1 Validação e caracterização dos miRNAs maduros identificados

Para a validação e caracterização dos miRNAs identificados *in silico*, a partir de sequências depositadas nos bancos de dados Phytozome v11 (*S. lycopersicum*) e PlaBi (*S. pennellii*), foi realizado o sequenciamento de nova geração (small RNAseq). Para a busca dos prováveis miRNAs maduros, nas bibliotecas do sequenciamento de *S. lycopersicum* e *S. pennellii* foram utilizados como *input* do pipeline de análise do sequenciamento os precursores dos miRNAs preditos a partir do genoma de respectiva espécie bem como as sequências do genoma em questão.

Utilizando o banco de dados RFAM, foi possível identificar e eliminar os *reads* de pequenos RNAs não codificantes de proteínas que não foram considerados prováveis miRNAs, como rRNA, tRNA, snRNA e snoRNA em *S. lycopersicum* (Figura 7) e *S. pennellii* (Figura 8). Os *reads* não eliminados seguiram nas análises para a busca de prováveis miRNAs maduros.

Figura 7 – Número de *reads* de pequenos RNAs obtidas no sequenciamento, utilizando o RFAM em *S. lycopersicum*.

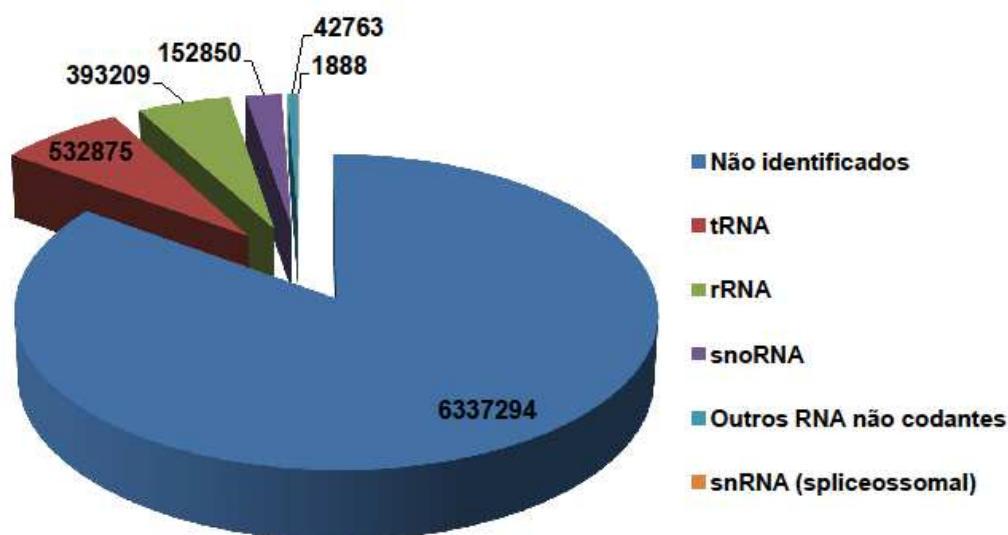
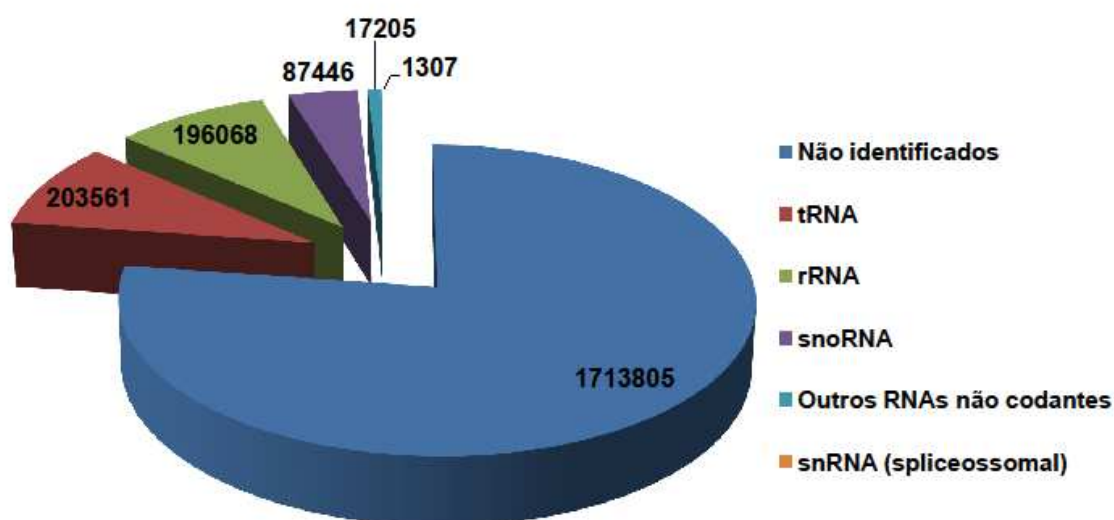


Figura 8 – Número de reads de pequenos RNAs obtidas no sequenciamento, utilizando o RFAM em *S. pennellii*.



Com o auxílio do programa miRDeep2 e a partir das sequências de precursores já identificadas em nosso estudo, foi realizada a validação e quantificação dos miRNAs maduros nas sequências remanescentes de *S. pennellii* e *S. lycopersicum*. Dessa forma, foi possível identificar 69 e 64 miRNAs maduros, distribuídos em 29 e 28 famílias de miRNAs em *S. lycopersicum* (Tabela 2) e *S. pennellii* (Tabela 3), respectivamente.

Tabela 2 – miRNAs maduros identificados a partir do sequenciamento (NGS – smallRNA-seq) de *S. lycopersicum*

Família	miRNA maduro	Sequência
Sly-MIR156/157	sly-miR156l-1-3p	GCTCACTGCTCTATCTGTCACC
	sly-miR156l-2-3p	GCTCACTGCTCTATCTGTCACC
	sly-miR157a-1-5p	TTGACAGAAGATAGAGAGCAC
	sly-miR157a-2-5p	TTGACAGAAGATAGAGAGCAC
	sly-miR157a-3-5p	TTGACAGAAGATAGAGAGCAC
	sly-miR157a-4-5p	TTGACAGAAGATAGAGAGCAC
Sly-MIR164	sly-miR164e-5p	TGGAGAAGCAGGGCACGTGCAA
	sly-miR164a-5p	TGGAGAAGCAGGGCACGTGCA
Sly-MIR166	sly-miR166-1	TCGGACCAGGCTTCATTCCCCC
	sly-miR166-2	TCGGACCAGGCTTCATTCCCCC

	sly-miR166-3	TCGGACCAGGCTTCATTCCCCC
	sly-miR166a-1-3p	TCGGACCAGGCTTCATTCCCC
	sly-miR166a-2-3p	TCGGACCAGGCTTCATTCCCC
	sly-miR166a-3-3p	TCGGACCAGGCTTCATTCCCC
	sly-miR166a-4-3p	TCGGACCAGGCTTCATTCCCC
Sly-MIR167	sly-miR167a-1-5p	TGAAGCTGCCAGCATGATCTAA
	sly-miR167a-2-5p	TGAAGCTGCCAGCATGATCTAA
	sly-miR167c-3p	GGTCATGCTCGGACAGCCTCACT
	sly-miR167c-5p	TGAAGCTGCCAGCATGATCTA
	sly-miR167h-3-5p	AGCAGTTGAAGCTGCCAGCATGAT
Sly-MIR172	sly-miR172d-2	GAGAATCTTGATGATGCTGCAT
	sly-miR172d-2-3p	TGAGAATCTTGATGATGCTGCAT
	sly-miR172d-4-3p	GAGAATCTTGATGATGCTGCAT
	sly-miR172d-6-3p	TGAGAATCTTGATGATGCTGCAT
	sly-miR172d-7-3p	TGAGAATCTTGATGATGCTGCA
Sly-MIR1886	sly-miR1886a	ATGGTATCGTGAGATGAAATCAGC
Sly-MIR3627	sly-miR3627-5p	TTGTCGCAGGAGAGATGGCACT
Sly-MIR396	sly-miR396a-5p	TTCCACAGCTTTCTTGAAGCTG
	sly-miR396b-5p	TTCCACAGCTTTCTTGAAGCTT
Sly-MIR397	sly-miR397-1-3p	CATCAACGCTAAACTCGATCA
Sly-MIR398	sly-miR398b-3p	TGTGTTCTCAGGTTACCCCTG
Sly-MIR403	sly-miR403-3p	CTAGATTACGCACAAGCTCG
Sly-MIR408	sly-miR408-2-3p	ATGCACTGCCTCTTCCCTGGC
Sly-MIR 4376	sly-miR4376-5p	ACGCAGGAGAGATGATGCTGGA
Sly-MIR482	sly-miR482a-1	TCTTTCCTACTCCTCCCATACC
	sly-miR482c	TTTCCTATTCCACCCATGCCAA
	sly-miR482d-3p	TCTTGCCCTACACCGCCCATGCC
Sly-MIR5300	sly-miR5300-5p	TCCCCAGTCCAGGCATTCCAAC
Sly-MIR5303	sly-miR5303	TTTTTGAAGAGTTCGAGCAAC
	sly-miR5303g	ATATTTTTGAAGAGTCTGAGCAAC
	sly-miR5303h-1	AACATTTTTGAAGAGTCTGAGCAA
	sly-miR5303h-2	AACATTTTTGAAGAGTCTGAGCAA
	sly-miR5303j-1	AATATTTTTGAAGAGTCTGAGCAA
	sly-miR5303j-2	AATATTTTTGAAGAGTCTGAGCAA
Sly-MIR5368	sly-miR5368	GGACAGTCTCAGGTAGACA
Sly-MIR6024	sly-miR6024-3p	TTTAGCAAGAGTTGTTTTACC
Sly-MIR6027	sly-miR6027-3p	TGAATCCTTCGGCTATCCATAA
	sly-miR6027-5p	ATGGGTAGCACAAAGGATTAATG
Sly-MIR7980	sly-miR7980b-2-5p	GTCCAAACACTGATTCCATCTCA
Sly-MIR7983	sly-miR7983-1-3p	ACTAATGCCGGTAAAGACTTTAAC
	sly-miR7983-2-3p	ACTAATGCCGGTAAAGACTTTAAC
	sly-miR7983-3-3p	ACTAATGCCGGTAAAGACTTTAAC
	sly-miR7983-4-5p	TAAAGTCTTTAGCGACATTGGTTC
	sly-miR7983-5-5p	TAAAGTCTTTAGCGACATTGGTTC
	sly-miR7983-5-3p	ACTAATGCTGGTAAAGACTTTAGC
	sly-miR7983-6-5p	TAAAGTCTTTAGCGACATTGGTTC
Sly-MIR7984	sly-miR7984c-3p	TACGATACCAAACCTTTATGGAGG
	sly-miR7984c-5p	ACGATACCAAACCTTTATGGAGGA
Sly-MIR8007	sly-miR8007a-5p	ATGTGGCACTTTTCGGATTTCGAG
	sly-miR8007b-5p	ATGTGACACTTTTGGATTTCGAG
Sly-MIR8019	sly-miR8019-1-3p	AAAAGAATGACCTGGTTTGACTTG
	sly-miR8019-2-3p	AAAAGAATGACCTGGTTTGACTTG
Sly-MIR8020	sly-miR8020	AATTTTCATTGAGTATGTTGTTGTT
Sly-MIR8021	sly-miR8021-1	ATTCAAGGCTCAAACCTCGAGACCT
	sly-miR8021-2	ATTCAAGGCTCAAACCTCGAGACCT
	sly-miR8021-3	ATTCAAGGCTCAAACCTCGAGACCT
Sly-MIR9471	sly-miR9471b-5p	GAGGTGCTCACTCAGCTAATA

Sly-MIR9473	sly-miR9473-1-5p	TGGCTGTAAATCTAAACTCGT
Sly-MIR9478	sly-miR9478-3p	TTCGATGACATATTTGAGCCT

Tabela 3 – miRNAs maduros identificados a partir do sequenciamento (NGS – smallRNA-seq) de *S. pennellii*.

Família	miRNA maduro	Sequência
Spe-MIR156/157	spe-miR156-1-5p	TTGACAGAAGATAGAGAGCAC
	spe-miR156-1-3p	GCTCTCTATGCTTCCGTCATC
	spe-miR156-12-3p	GCTCACTTCTCATTCTGTCAGC
	spe-miR156-2-5p	TTGACAGAAGATAGAGAGCAC
	spe-miR156-3-5p	TTGACAGAAGATAGAGAGCAC
	spe-miR156-4-5p	TTGACAGAAGATAGAGAGCAC
	spe-miR156-5-5p	TTGACAGAAGATAGAGAGCAC
	spe-miR156-6-5p	TTGACAGAAGATAGAGAGCAC
Spe-MIR162	spe-miR162a-1-5p	GGAGGCAGCGGTTTCATCGATC
	spe-miR162a-2-5p	GGAGGCAGCGGTTTCATCGATC
Spe-MIR164	spe-miR164a-5p	TGGAGAAGCAGGGCACGTGCA
	spe-miR164b-5p	TGGAGAAGCAGGGCACGTGCA
Spe-MIR165/166	spe-miR166-1-3p	TCGGACCAGGCTTCATTCCCC
	spe-miR166-2-3p	TCGGACCAGGCTTCATTCCCC
	spe-miR166a-1-3p	TCGGACCAGGCTTCATTCCCC
	spe-miR166a-2-3p	TCGGACCAGGCTTCATTCCCC
	spe-miR166a-3-5p	GGAATGTTGTCTGGCTCGAAG
	spe-miR166a-3-3p	TCGGACCAGGCTTCATTCCCC
Spe-MIR167	spe-miR167-1-5p	TGAAGCTGCCAGCATGATCTA
	spe-miR167-2-5p	TGAAGCTGCCAGCATGATCTA
	spe-miR167-3-5p	TGAAGCTGCCAGCATGATCTA
	spe-miR167-3-3p	GGTCATGCTCGGACAGCCTCACT
	spe-miR167a-5p	TGAAGCTGCCAGCATGATCTA
Spe-MIR172	spe-miR172-1-3p	AGAATCTTGATGATGCTGCAT
	spe-miR172-6-3p	AGAATCTTGATGATGCTGCAT
	spe-miR172a-3p	AGAATCTTGATGATGCTGCAT
Spe-MIR1917	spe-miR1917-1-5p	ATTAATAAAGAGTGCTAAAGT
	spe-miR1917-2-5p	ATTAATAAAGAGTGCTAAAGT
	spe-miR1917-3-5p	ATTAATAAAGAGTGCTAAAGT
	spe-miR1917-4-5p	ATTAATAAAGAGTGCTAAAGT
Spe-MIR396	spe-miR396-1-5p	TTCCACAGCTTTCTTGAACCTT
	spe-miR396a-5p	TTCCACAGCTTTCTTGAACCTG
Spe-MIR398	spe-miR398b-1-5p	GAGTGTGCCTAAGAACACAGGT
Spe-MIR403	spe-miR403-1-3p	CTAGATTCACGCACAAACTCG
Spe-MIR4376	spe-miR4376-5p	TACGCAGGAGAGATGATGCTG
Spe-MIR482	spe-miR482a-3p	TTTCCAATTCCACCCATTCCCTA
	spe-miR482e-3p	TCTTTCCTACTCCTCCCATACC
Spe-MIR5174	spe-miR5174d-3-3p	CATTCTTTTTTAAACGGAGGGAGT
Spe-MIR5300	spe-miR5300-5p	TCCCCAGTCCAGGCATTCCAAC
Spe-MIR5303	spe-miR5303h-5p	AACATTTTTGAAGAGTCTGAGCAA
Spe-MIR5368	spe-miR5368-5p	GGACAGTCTCAGGTAGACA
Spe-MIR6024	spe-miR6024-5p	AGAAACAACACTTGCTAAAGGA
	spe-miR6024-3p	TTTTAGCAAGAGTTGTTTTCCC
Spe-MIR6027	spe-miR6027-5p	ATGGGTAGCACAAGGATTAATG
	spe-miR6027-3p	TGAATCCTTCGGCTATCCATAA
Spe-MIR6478	spe-miR6478-5p	CCGACCTTAGCTCAGTTGGTA
Spe-MIR7881	spe-miR7981-5p	CTTAACATAAATAAGGTCCTATTA
Spe-MIR7983	spe-miR7983-1-5p	TAAAGCCTTTAGCGACATTGGTTC

	spe-miR7983-1-3p	ACTAATGCCGGTAAAGACTTTAAC
	spe-miR7983-2-5p	TAAAGCCTTTAGCGACATTGGTTC
	spe-miR7983-2-3p	ACTAATGCCGGTAAAGACTTTAAC
	spe-miR7983-3-3p	ACTAATGCCGGTAAAGACTTTAAC
	spe-miR7983-4-3p	ACTAATGCCGATAAAGACTTTAAC
	spe-miR7983-5-3p	ACTAATGCCGATAAAGACTTTAAC
	spe-miR7983-7-5p	TAAAGCCTTTAGCGACATTGGTTC
	spe-miR7983-7-3p	ACTAATGCCGGTAAAGACTTTAAC
Spe-MIR7984	spe-miR7984b-5p	ATATCAAACCTTTGGAAATGACCTT
Spe-MIR8001	spe-miR8001a-5p	TCCTGGGGATTAGTATGAAAATTC
	spe-miR8001b-2-5p	ATGGGGATTAGTATGAAAATTTGC
Spe-MIR8005	spe-miR8005-3p.1	TTTAGAGTTTAGGGTTTAGGGTTT
Spe-MIR8007	spe-miR8007a-3p	CGAAAAATGAAAAGTGCCACATAA
Spe-MIR8019	spe-miR8019	TAAAGAATGACCTGGTTTGAGTTG
Spe-MIR8020	spe-miR8020-5p	AATTCATTGAGTATGTTGTTGTT
Spe-MIR8026	spe-miR8026-3p	ATGTAGAGAATATGTGGTAACCT

Dos miRNAs maduros encontrados nas bibliotecas de *reads* do sequenciamento, os miRNAs das famílias MIR166 e MIR167 apresentaram maior expressão, tanto em *S. lycopersicum* (Figura 9), quanto em *S. pennellii* (Figura 10).

Figura 9 – Famílias de miRNAs mais expressas nas bibliotecas de *reads* de *S. lycopersicum*

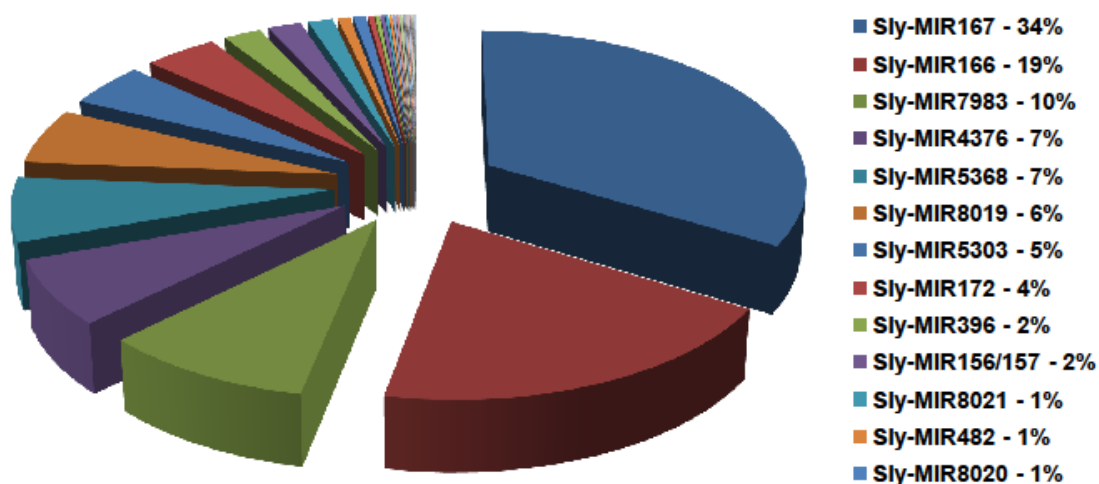
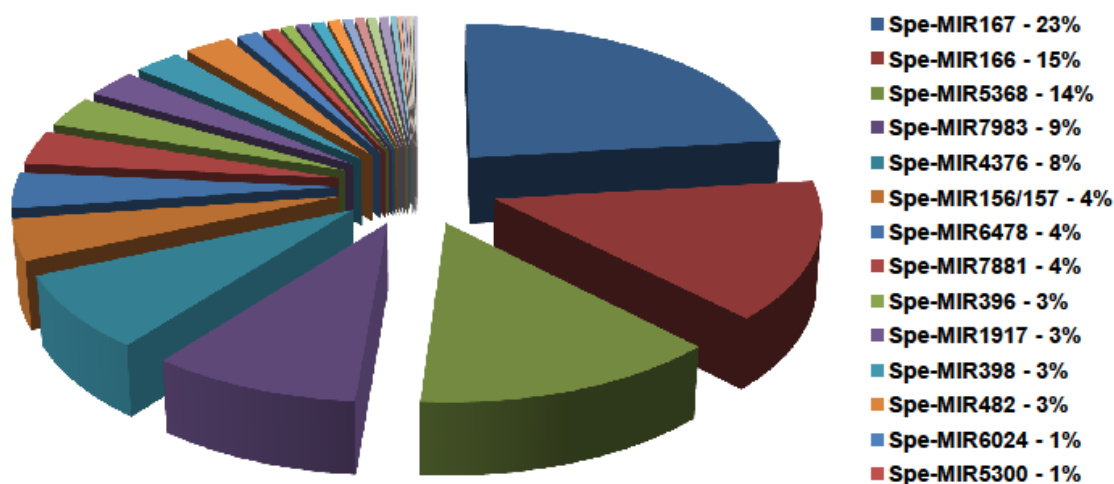


Figura 10 – Famílias de miRNAs mais expressas nas bibliotecas de *reads* de *S. pennellii*



Dessa maneira, dentre as 100 famílias de miRNAs encontradas nas duas espécies de estudo, destacamos 10 famílias para mais caracterizações, sendo que dessas, as famílias MIR167 e MIR166 apresentaram maior expressão nas bibliotecas de *reads* do sequenciamento e as famílias MIR393, MIR530, MIR827, MIR828, MIR7983, MIR7990, MIR8011 e MIR8025 foram identificadas, pela primeira vez, em *S. lycopersicum* e *S. pennellii*. Para cada uma destas, foram analisados a conservação das sequências e distribuições filogenéticas, bem como os seus prováveis mRNAs alvos, os quais indicam participação efetiva destes novos miRNAs nos processos biológicos.

4.2.2 MIR167

Na família MIR167 de *S. lycopersicum* foram identificados 6 precursores de miRNA (sly-miR167a-1, sly-miR167a-2, sly-miR167c, sly-miR167h-1, sly-miR167h-2 e sly-miR167h-3) e 10 miRNAs maduros (sly-miR167a-1-3p, sly-miR167a-1-5p, sly-miR167a-2-3p, sly-miR167a-2-5p, sly-miR167c-3p, sly-miR167c-5p, sly-miR167h-1, sly-miR167h-2, sly-miR167h-3-3p e sly-miR167h-3-5p).

5p) (Tabela S5). Por sua vez, em *S. pennellii* foram identificados 5 precursores (spe-miR167-1, spe-miR167-2, spe-miR167-3, spe-miR167a e spe-miR167h) e 9 miRNAs maduros (spe-miR167-1-5p, spe-miR167-1-3p, spe-miR167-2-5p, spe-miR167-2-3p, spe-miR167-3-5p, spe-miR167-3-3p, spe-miR167a-5p, spe-miR167a-3p e spe-miR167h-3p) (Tabela S6). A família MIR167 foi a família que apresentou maior expressão nas bibliotecas de *reads* sequenciadas nas duas espécies de tomate (Figura 9, Figura 10 e Figura S1). Foram encontrados, a partir do sequenciamento, 6 e 7 miRNAs maduros em *S. lycopersicum* e *S. pennellii*, respectivamente (Tabela 2 e Tabela 3). Diversos estudos têm mostrado que a família MIR167 é altamente conservada em várias espécies de plantas, como *A. thaliana*, *S. tuberosum* e *O. sativa* (BONNET et al., 2004; JONES-RHOADES; BARTEL, 2004; SUNKAR; JAGADEESWARAN, 2008a).

Os miRNAs precursores e maduros, pertencentes à família MIR167 encontrados em *S. lycopersicum* e *S. pennellii*, mostram grande conservação em suas sequências e estruturas secundárias em relação ao seus ortólogos nas espécies de *Nicotiana tabacum*, *P. trichocarpa*, *M. domestica*, *Manihot esculenta* e *G. Max* (Figura 11).

A árvore filogenética da família MIR167 foi distribuída em cinco famílias (*Euphorbiaceae*, *Rosaceae*, *Solanaceae*, *Salicaceae* e *Fabaceae*). A análise mostrou que as sequências de pré-miRNAs de *S. lycopersicum* e *S. pennellii* foram agrupadas juntas às espécies da mesma família, seguindo a distribuição da árvore da vida (Figura 12).

Os miRNAs da família MIR167 de *S. lycopersicum* (sly-miR167a-1-5p, sly-miR167a-2-3p, sly-miR167a-2-5p, sly-miR167c-5p, sly-miR167h-1-5p, sly-miR167h-2-3p e sly-miR167h-3-3p) e *S. pennellii* (spe-miR167-1-3p, spe-miR167-1-5p, spe-miR167-2-3p, spe-miR167-2-5p, spe-miR167-3-5p, spe-miR167a-3p, spe-miR167a-5p e spe-miR167h-3p) apresentaram como alvos 123 diferentes transcritos, dentre eles estão: *Putative zinc finger in N-recogin (UBR box)*, proteínas *Retrotransposon gag*, transportador de magnésio NIPA, *Rad51*, proteínas que contem o domínio MA3 e uma classe de proteínas relacionadas com a resistência a doenças (CC-NBS-LRR) (Tabela S11 e Tabela S12). Muitos trabalhos, realizados em plantas, também demonstram alvos semelhantes aos encontrados em nosso estudo, além de apresentarem outros alvos importantes da

família MIR167, como na regulação de fatores de resposta a auxina (ARF6 e ARF8) e da arquitetura da raiz em condições de estresse osmótico (BALDRICH et al., 2015; KINOSHITA et al., 2012; LI et al., 2010b; LIU et al., 2014; RU et al., 2006).

Figura 11 – Alinhamento e estrutura secundária dos precursores de miRNAs identificados nas famílias MIR167 em *S. lycopersicum* e *S. pennellii* e seus ortólogos.

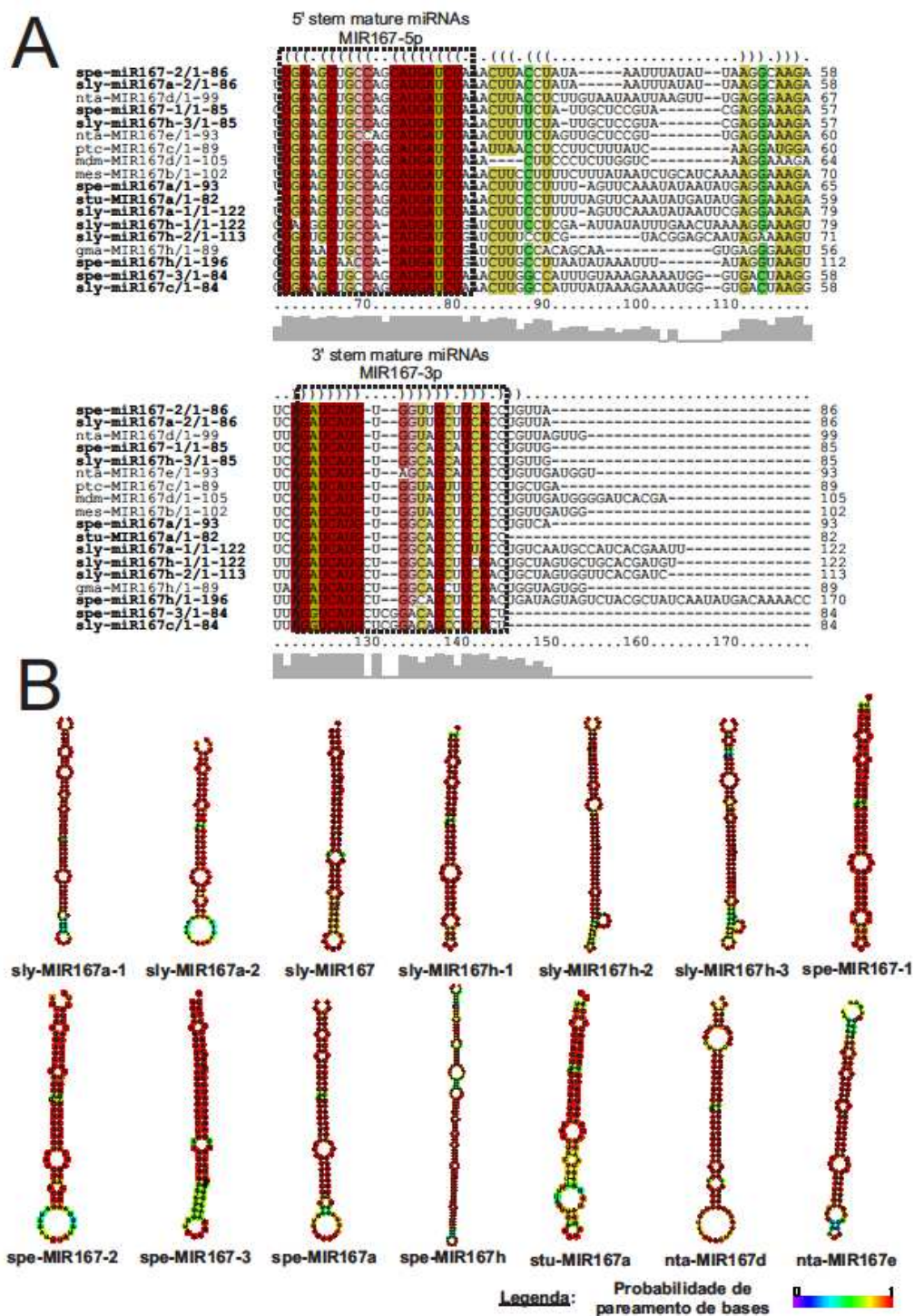
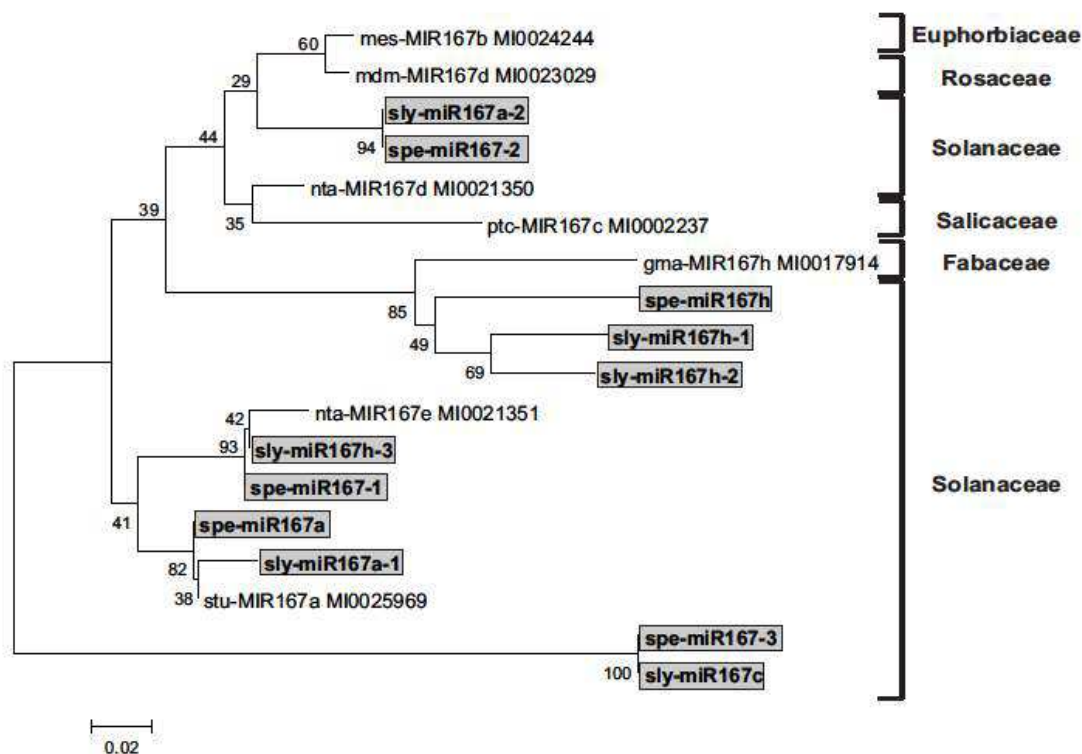


Figura 12 - Árvore filogenética da família MIR167 de *S. lycopersim*, *S. pennellii* e seus ortólogos.



4.2.3 MIR166/165

Foram identificados 8 precursores de miRNA (sly-miR166-1, sly-miR166-2, sly-miR166-3, sly-miR166a-1, sly-miR166a-2, sly-miR166a-3, sly-miR166a-4 e sly-miR166g) e 10 miRNAs maduros (sly-miR166-1, sly-miR166-2, sly-miR166-3, sly-miR166a-1-3p, sly-miR166a-2-3p, sly-miR166a-2-5p, sly-miR166a-3-3p, sly-miR166a-4-3p, sly-miR166a-4-5p e sly-miR166g-3p) na família MIR166/165 de *S. lycopersicum* (Tabela S5) e 6 precursores (spe-miR166-1, spe-miR166-2, spe-miR166a-1, spe-miR166a-2, spe-miR166a-3 e spe-miR166c) e 10 miRNAs maduros (spe-miR166-1-5p, spe-miR166-1-3p, spe-miR166-2-5p, spe-miR166-2-3p, spe-miR166a-1-3p, spe-miR166a-2-3p, spe-miR166a-3-5p, spe-miR166a-3-3p, spe-miR166c-5p e spe-miR166c-3p) em *S. pennellii* (Tabela S6).

A família MIR166/165 foi a segunda família que apresentou maior expressão nas bibliotecas de *reads* sequenciadas nas duas espécies de tomate (Figura 9, Figura 10 e Figura S2). Foram identificados, a partir do sequenciamento, 6 e 7 miRNAs maduros em *S. lycopersicum* e *S. pennellii*,

respectivamente (Tabela 2 e Tabela 3). Vários trabalhos também identificaram miRNAs da família MIR166 em diferentes espécies, mostrando que esta família é altamente conservada em plantas, como em *A. thaliana*, *O. sativa*, *G. max*, *P. vulgaris* e *S. tuberosum* (DE SOUSA CARDOSO et al., 2015; ZHAN; LUKENS, 2010; ZHI-HAO et al., 2015; ZHOU et al., 2010).

Os miRNAs precursores pertencentes às famílias Sly/SpeMIR166, identificados no nosso estudo, apresentaram uma elevada conservação na sequência do precursor, principalmente da região dos miRNAs maduros, e em suas estruturas secundárias, em comparação com os seus ortólogos em *M. truncatula*, *N. tabacum*, *T. cacao*, *C. sinensis*, *V. vinifera*, *O. sativa*, *A. thaliana* e *Arabidopsis lyrata* (Figura 13 e Figura 14).

A análise filogenética da família MIR166 apresentou uma árvore dividida em clados de Eudicotiledôneas (*Rosaceae*, *Solanaceae*, *Salicaceae*, *Brassicaceae*, *Rutaceae* e *Vitaceae*) e Monocotiledôneas (*Poaceae*), mostrando uma distribuição evolutiva que corrobora com a árvore da vida de espécies vegetais (Figura 15). Os sly/spe-miR166 localizaram-se mais próximos aos seus ortólogos no clado das *Solanaceas*, e dividiram-se em dois grupos distintos, representando uma conservação diferente em cada conjunto de miR166 entre espécies da mesma família.

Figura 13 – Alinhamento dos precursores de miRNAs identificados nas famílias MIR166 em *S. lycopersicum* e *S. pennellii* e seus ortólogos.

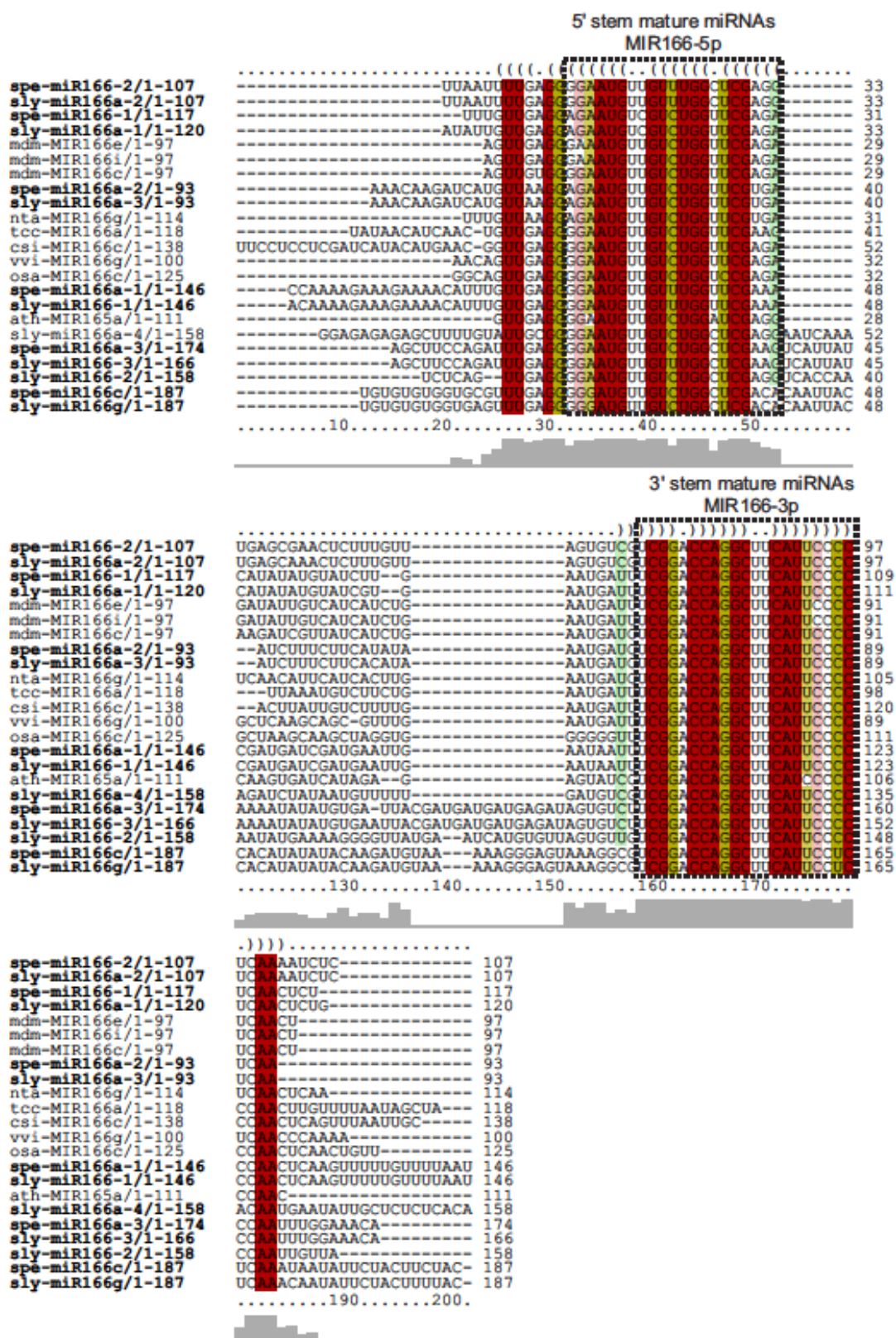


Figura 14 – Estruturas secundárias dos pré-miRNAs das famílias MIR166 de *S. lycopersicum*, *S. pennellii* e seus ortólogos.

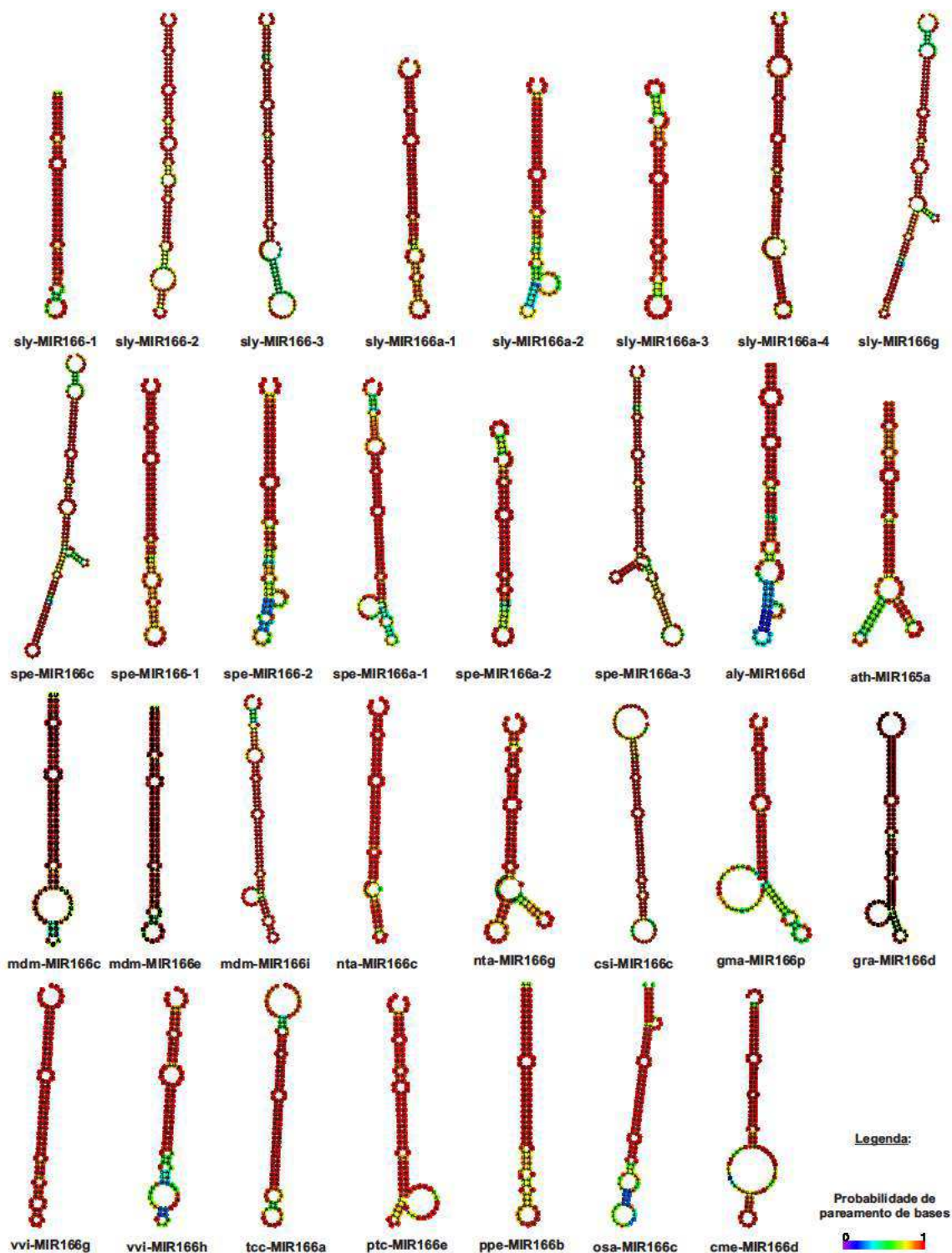
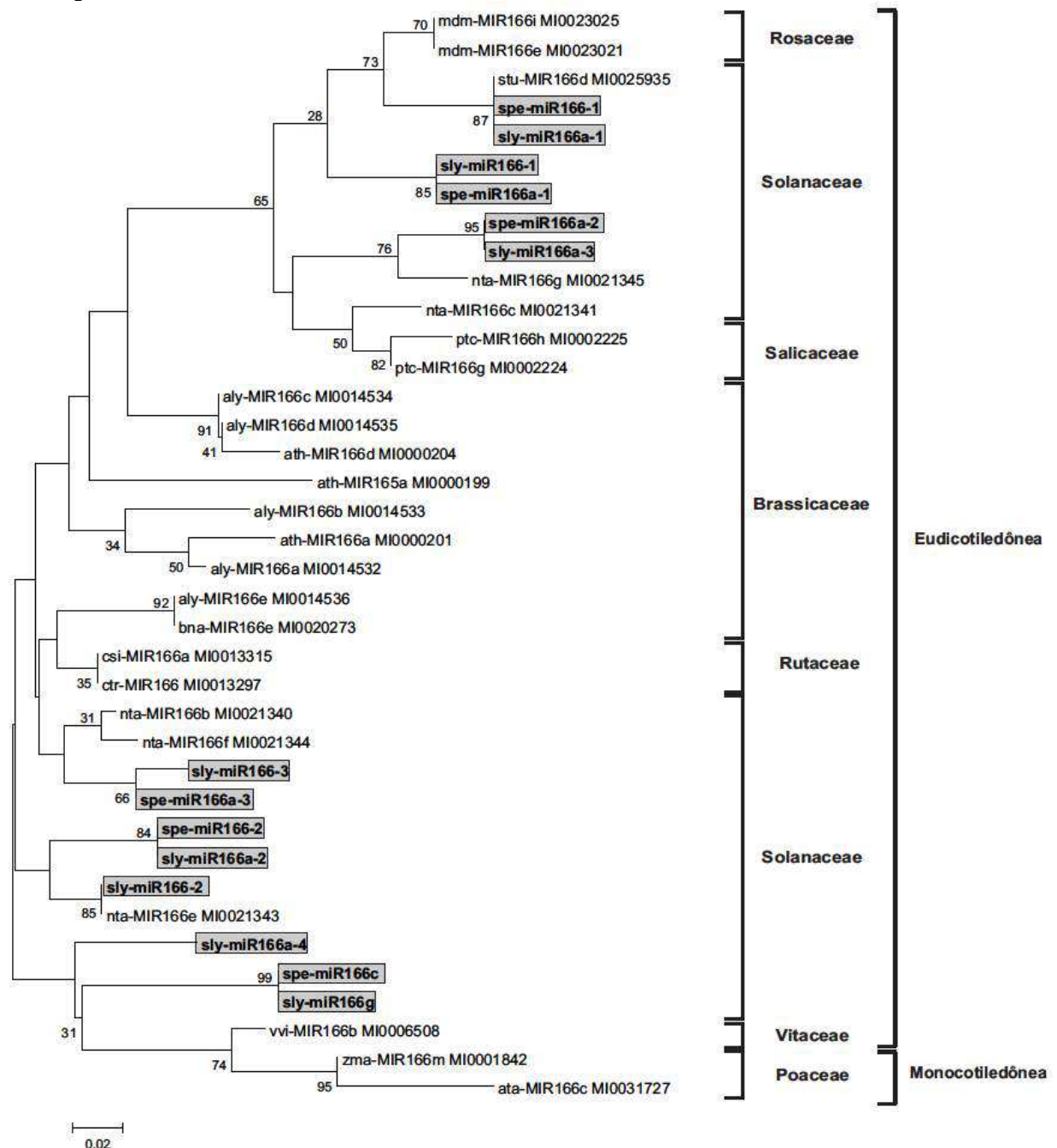


Figura 15 - Árvore filogenética da família MIR166 de *S. lycopersim*, *S. pennellii* e seus ortólogos.



Os miRNAs sly-miR166-1-3p, sly-miR166-2-3p, sly-miR166-3-3p, sly-miR166-3-3p, sly-miR166a-1-3p, sly-miR166a-2-3p, sly-miR166a-2-5p, sly-miR166a-3-3p, sly-miR166a-4-3p, sly-miR166a-4-5p, sly-miR166g-3p de *S. lycopersicum* e os spe-miR166-1-3p, spe-miR166-1-5, spe-miR166-2-3p, spe-miR166-2-5p, spe-miR166a-1-3p, spe-miR166a-2-3p, spe-miR166a-3-3p, spe-miR166a-3-5p, spe-miR166c-3p, spe-miR166c-5p identificados em *S. pennellii*

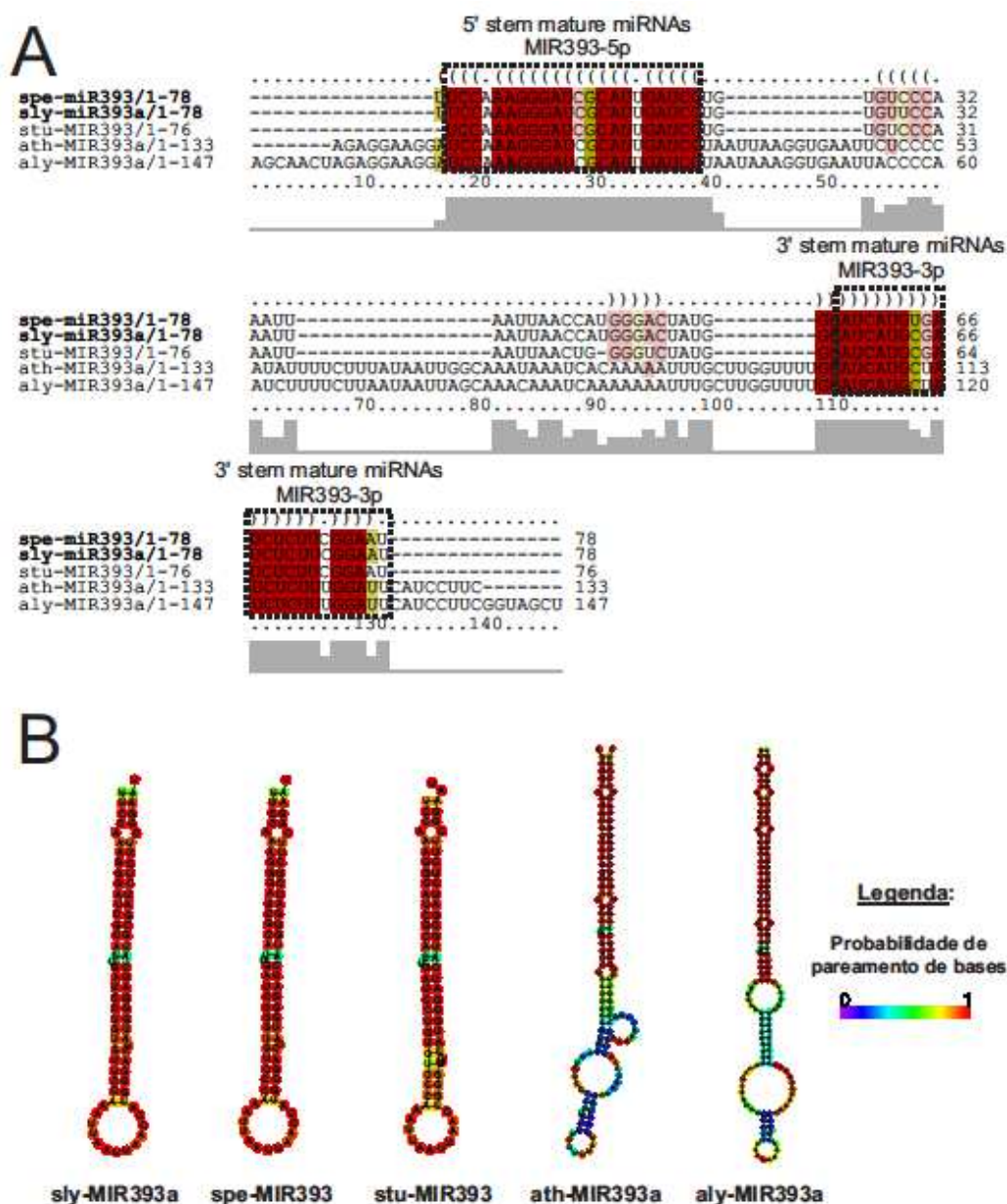
apresentaram 23 alvos distintos (Tabela S11 e Tabela S12). Todos os alvos encontrados, nas duas espécies, estão relacionados com a família de proteínas *Zipper*, sobretudo aquelas que apresentam o domínio MEKHLA, como por exemplo, as proteínas HD-Zip (homeodomain-leucine zipper). Essas proteínas estão envolvidas com a diferenciação vascular, desenvolvimento secundário da planta e padronização radial da raiz (BARIK et al., 2014; ITOH et al., 2008; KO; PRASSINOS; HAN, 2006; TURCHI et al., 2015; ZHOU et al., 2010). Diversos estudos também identificaram os alvos dos miR166 em outras espécies de plantas, como *A. thaliana* e *O. sativa*, corroborando com os alvos encontrados em nossos resultados, mostrando também uma grande conservação da função dessa família de miRNAs em plantas (BARIK et al., 2014; KO; PRASSINOS; HAN, 2006; SUNKAR et al., 2008; TURCHI et al., 2015; ZHI-HAO et al., 2015; ZHU et al., 2011).

4.2.4 MIR393

Foram identificados 1 precursor de miRNA (sly-miR393a e spe-miR393) e 2 miRNAs maduros (sly-miR393a-3p, sly-miR393a-5p e spe-miR393-3p, spe-miR393-3p) em cada família MIR393 de *S. lycopersicum* (Tabela S5) e *S. pennellii* (Tabela S6), respectivamente. Foram identificados neste estudo pela primeira vez, miRNAs da família MIR393 em *S. lycopersicum* e *S. pennellii*. Membros da família MIR393 também foram encontrados em Samambaias, Gimnospermas, Angiospermas, Monocotiledôneas e Eudicotiledôneas, tais como *A. thaliana* e *P. vulgaris* (ALLEN et al., 2005; BAROZAI; BALOCH; DIN, 2012; DE SOUSA CARDOSO et al., 2015; JAGADEESWARAN et al., 2009; JONES-RHOADES; BARTEL; BARTEL, 2006; KIDNER; MARTIENSSEN, 2005; MONTES et al., 2014; SUNKAR; JAGADEESWARAN, 2008a; ZHANG et al., 2009).

As estruturas primárias e secundárias da família MIR393 de tomate foram bastante conservadas, quando comparadas com seus ortólogos em *S. tuberosum*, *A. thaliana* e *Arabidopsis lyrata*, principalmente nas regiões onde estão localizados os miRNAs maduros 3' e 5' (Figura 16).

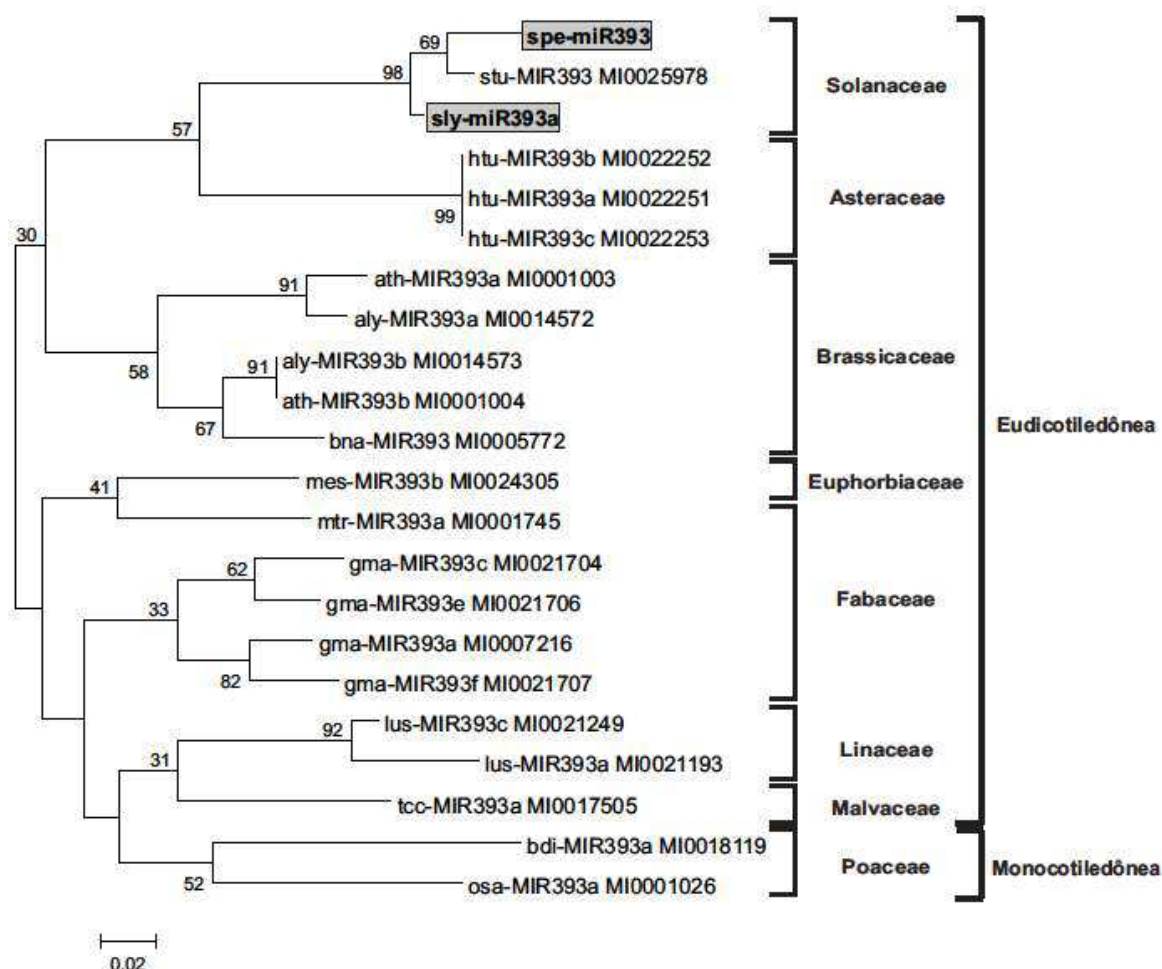
Figura 16 – Alinhamento e estrutura secundária dos precursores de miRNAs identificados nas famílias MIR393 em *S. lycoperscum* e *S. pennellii* e seus ortólogos.



A árvore filogenética, construída com os membros da família MIR393 de tomate e seus ortólogos, foi dividida em dois clados, um clado de Eudicotiledôneas, possuindo sequências das famílias *Solanaceae*, *Asteraceae*, *Brassicaceae*, *Euphorbiaceae*, *Fabaceae*, *Linaceae* e *Malvaceae*, e um clado de Monocotiledôneas com miRNAs da família *Poaceae*. As sequências de miRNAs de *S. lycopersim* e *S. pennellii* foram distribuídas corretamente na árvore, juntamente com *S. tuberosum*, formando um clado de miRNAs em *Solanaceae*, o

que representa a conservação dos miRNAs entre espécies da mesma família (Figura 17).

Figura 17 - Árvore filogenética da família MIR393 de *S. lycopersim*, *S. pennellii* e seus ortólogos.



Os miR393, apresentaram como mRNAs alvos, 25 transcritos distintos que codificam proteínas *Lysine-specific histone demethylase 1* (*LSD1*) e proteínas contendo os domínios U-box e F-box, como *transport inhibitor response 1* (TIR1), um receptor de auxina envolvido num mecanismo que leva a degradação do hormônio (Tabela S11 e Tabela S12). Esses miRNAs atuam na regulação de proteínas extremamente importantes na sinalização sensível à hormônios no desenvolvimento das plantas (CHEN et al., 2011; KWAK et al., 2009; ROBERT-SEILANIAN et al., 2011; SI-AMMOUR et al., 2011; WINDELS; VAZQUEZ, 2011). Os alvos encontrados para essas famílias de miRNAs corroboram com estudos em outras espécies, tais como *A. thaliana*, *O. sativa*, *Z. mays*, *P. vulgaris*,

Gossypium hirsutum e *M. truncatula* (CHEN et al., 2011; DE SOUSA CARDOSO et al., 2015; FENG et al., 2014; GAO et al., 2011; KIDNER; MARTIENSSEN, 2005; KWAK et al., 2009; ROBERT-SEILANIANZ et al., 2011; SUNKAR; JAGADEESWARAN, 2008a; WAHID et al., 2010b; ZHANG et al., 2009).

4.2.5 MIR530

Foram identificados, em *S. lycopersicum* (Tabela S5) e *S. pennellii* (Tabela S6), 1 precursor (sly-miR530 e spe-miR530) e 1 miRNA maduro (sly-miR530 e spe-miR530) contido em cada família MIR530. Este trabalho apresenta, pela primeira vez, os miR393 nas espécies estudadas de tomate. A família MIR530 também foi encontrada em plantas ortólogas, tais como *S. tuberosum*, *O. sativa*, *C. sinensis*, *P. vulgaris* e *Z. mays* (DE SOUSA CARDOSO et al., 2015; KHALDUN et al., 2015; LAKHOTIA et al., 2014; LIU et al., 2005; MONTES et al., 2014; SUNKAR; JAGADEESWARAN, 2008a)

Os miRNAs sly-miR530-5p e spe-miR530-5p mostraram elevada conservação em suas sequências, a nível primário e secundário, relacionados com seus ortólogos em *S. tuberosum*, *P. trichocarpa* e *G. Max*. No mesmo sentido, os seus precursores apresentaram uma estrutura secundária que corrobora com miRNAs reais já identificados em outros vegetais (Figura 18).

Os miRNAs da família MIR530 de *S. lycopersicum* e *S. pennellii* foram analisados quanto à sua filogenia em relação aos miR530 em outras espécies de plantas (Figura 19). A árvore filogenética apresentou uma divisão com um clado de Eudicotiledôneas, contendo as famílias *Malvaceae*, *Solanaceae*, *Rutaceae*, *Salicaceae*, *Fabaceae* e *Linaceae*, e um clado de Monocotiledôneas com a família *Poaceae*. Essa distribuição mostrou uma relação verdadeira com a filogenia de espécies de plantas na árvore da vida.

Foram encontrados 30 alvos da família de MIR530 em *S. lycopersicum* e *S. pennellii*. Os alvos identificados foram transcritos que codificam proteínas do tipo ribonuclease P envolvidas no processamento de tRNA (Rpp14/Pop5), proteínas contendo o domínio AP2 e proteínas do tipo tirosina-quinase (Tabela S11 e Tabela S12), também encontrados em outras plantas, como *N. tabacum* (LANG et al., 2011b). Adicionalmente, os miR530 estão envolvidos com a regulação da

tolerância ao nitrogênio em arroz e à alta salinidade (OUYANG et al., 2014; SHEN; XIE; XIONG, 2010), sendo moléculas importantes no controle fisiológico da planta quando submetidas a estresses.

Figura 18 – Alinhamento e estrutura secundária dos precursores de miRNAs identificados nas famílias MIR530 em *S. lycoperscum* e *S. pennellii* e seus ortólogos.

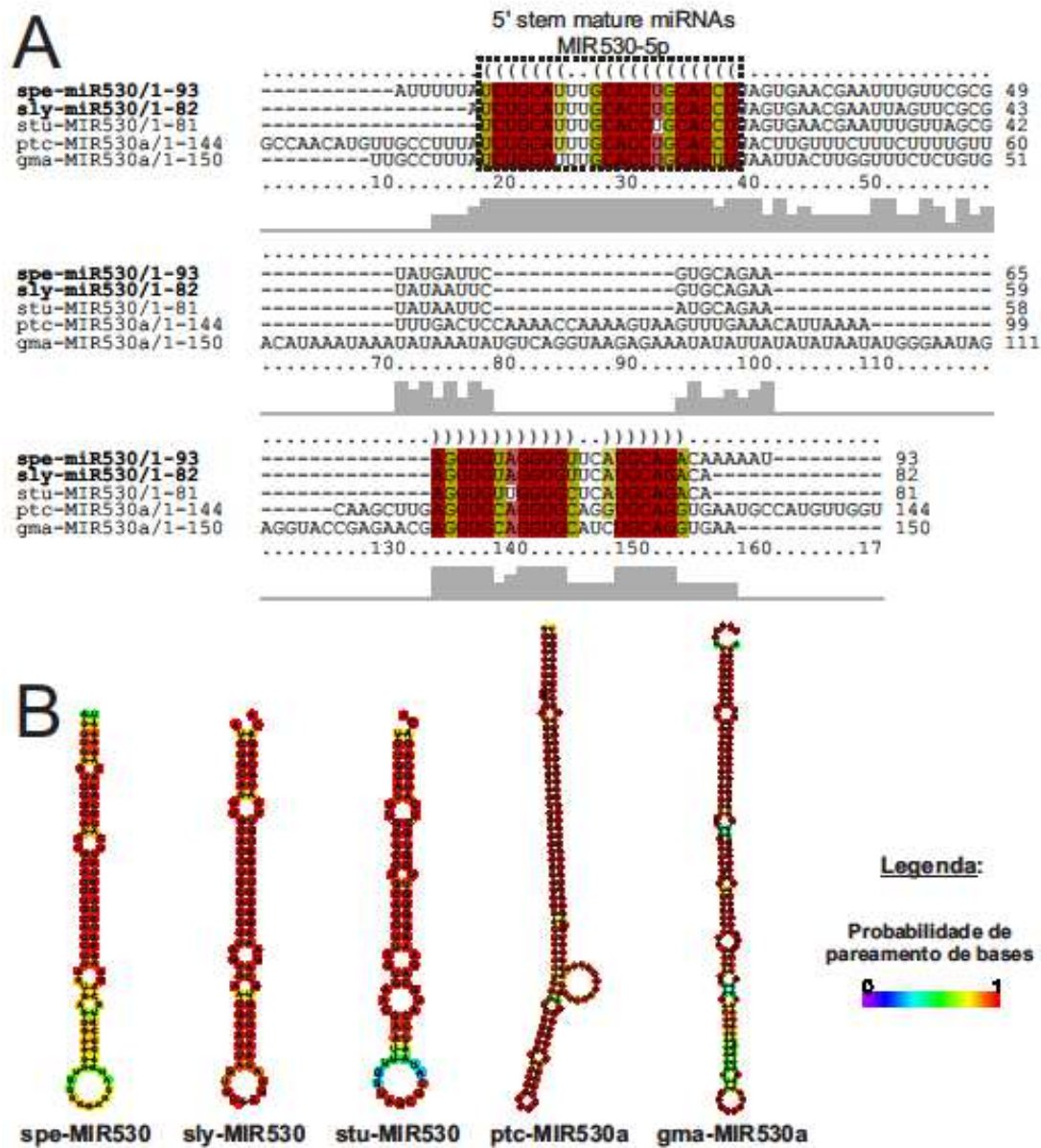
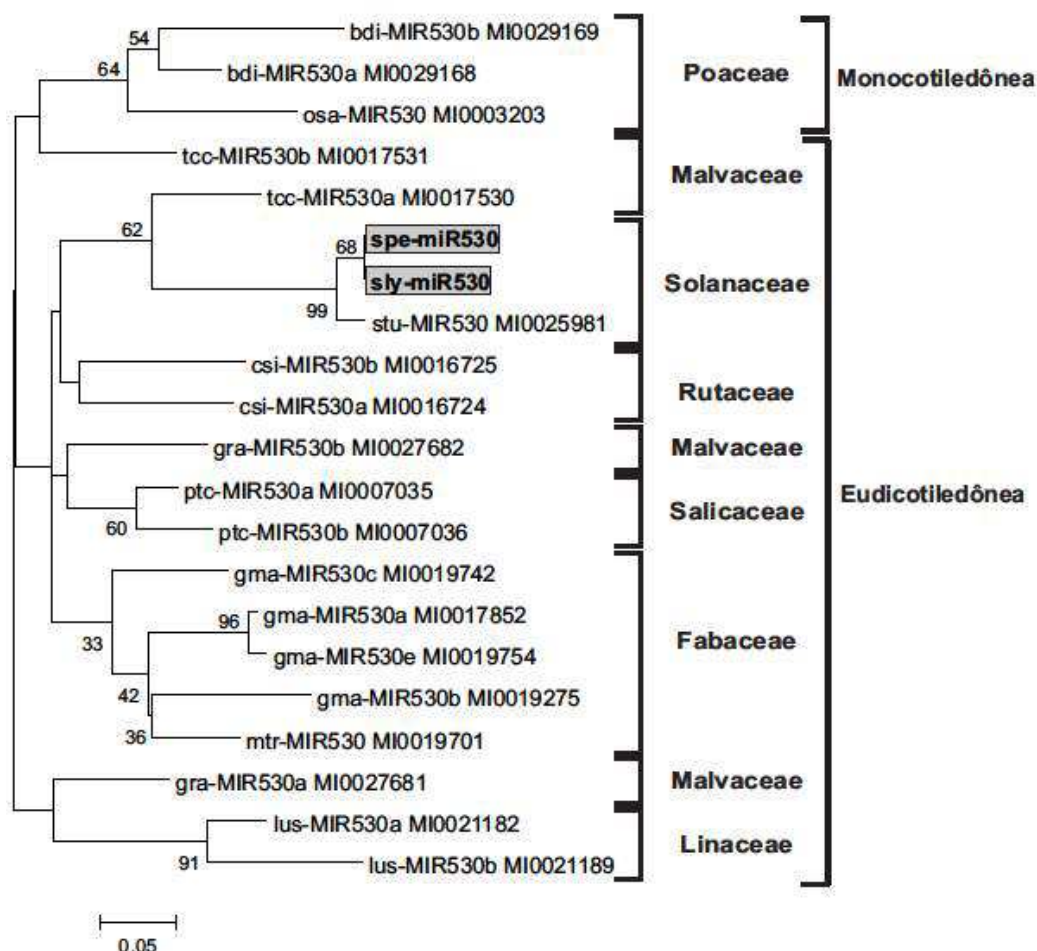


Figura 19 - Árvore filogenética da família MIR530 de *S. lycopersim*, *S. pennellii* e seus ortólogos.

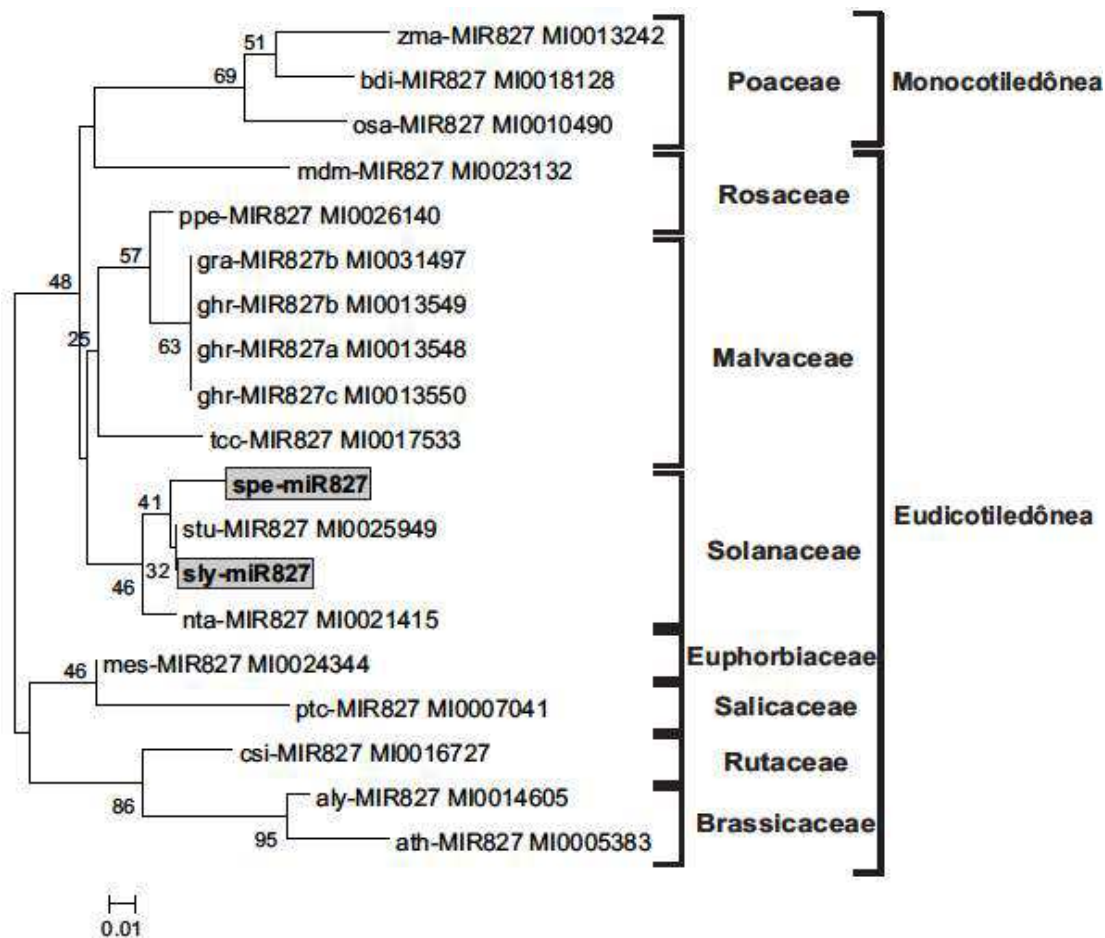


4.2.6 MIR827

Pertencente às famílias MIR827, foram identificados 1 precursor (sly-miR827 e spe-miR827) e 2 miRNAs maduros (sly-miR827-3p, sly-miR827-5p e spe-miR827-3p, spe-miR827-5p) pela primeira vez, em cada espécie de tomate estudada (Tabela S5 e Tabela S6). *P. trichocarpa*, *O. sativa*, *Z. mays*, *tuberosum*, *A. thaliana* e *Brassica spp* também identificaram miRNAs da família MIR827 em seus genomas (LU; SUN; CHIANG, 2008; SUNKAR; JAGADEESWARAN, 2008a; XUE; ZHANG; XUE, 2009; ZHANG et al., 2009, 2013)

A análise de conservação das estruturas primárias e secundárias de MIR827 em sequências de miRNAs precursores e maduros em *S. lycopersicum* e

Figura 21 - Árvore filogenética da família MIR827 de *S. lycopersim*, *S. pennellii* e seus ortólogos.



Os miRNAs sly-miR827-3p, sly-miR827-5p, spe-miR827-3p e spe-miR827-5p obtiveram 43 alvos diferentes de mRNAs. Os transcritos alvos identificados na família MIR827 compreendem proteínas contendo o domínio F-box, proteínas *E3 Ubiquitin ligase BIG BROTHER*, proteínas do tipo tirosina-quinase, glioxilato/hidroxipiruvato redutase HPR3, *phosphomannomutase (PMM) / PIG-X/PBN1 (PIG-X)*, NADH-Citocromo B5 redutase (flavoproteína que catalisa a transferência de equivalentes redutores entre os transportadores de elétrons de nicotinamida), além de fatores de transcrição RAX2 e homeobox (Tabela S11 e Tabela S12). Estudos também apresentam alvos semelhantes para essa família de miRNAs e indicam que a família miR827 desempenha um papel fundamental na adaptação da planta ao estresse, sobretudo na deficiência de nitrogênio e fósforo (KUO; CHIOU, 2011; LUNDMARK; KØRNER; NIELSEN, 2010; PANT et al., 2009; XU et al., 2011).

4.2.7 MIR828

Foram identificadas 1 sequência precursora (sly-miR828a) e 1 sequência de miRNA madura (sly-miR828a) em *S. lycopersicum* (Tabela S5); 1 sequência precursora (spe-miR828a) e 2 maduras (spe-miR828a-5p e spe-miR828a-3p) em *S. pennellii* (Tabela S6), contidas na família MIR828 pela primeira vez nessas espécies de tomate. Estudos têm demonstrado a presença de miRNAs da família MIR828 em outras espécies de plantas, como *A. thaliana*, *O. sativa*, *P. vulgaris*, *V. vinifera* e *Z. mays* (DE SOUSA CARDOSO et al., 2015; JAGADEESWARAN et al., 2009; MONTES et al., 2014; RAJAGOPALAN et al., 2006; ROSAS-CÁRDENAS et al., 2014; WANG et al., 2011; ZHENG et al., 2012)

Além disso, o alinhamento das sequências primárias, bem como o arranjo das estruturas secundárias dos miRNAs da família MIR828 apresentaram uma alta conservação, sobretudo na região dos miRNAs maduros, comparados com seus ortólogos em *G. Max*, *M. domestica* e *V. vinifera* (Figura 22).

A análise filogenética da família MIR828 apresentou uma árvore dividida em 10 clados de diferentes famílias: *Brassicaceae*, *Fabaceae*, *Rosaceae*, *Vitaceae*, *Lamiales*, *Linaceae*, *Euphorbiaceae*, *Salicaceae*, *Cucurbitaceae* e *Solanaceae* (Figura 23). A filogenia construída mostrou uma distribuição evolutiva que corrobora com a árvore da vida de espécies vegetais. Os sly/spe-miR828a apresentaram-se juntos, formando um clado de *Solanaceas*.

Na busca de genes alvos, foram identificados 18 diferentes transcritos alvos da regulação dos miRNAs encontrados na família de MIR828 em tomate (Tabela S11 e Tabela S12). Dentre os transcritos identificados, temos proteínas de ligação ao DNA do tipo MYB, cisteínas proteases da família C1 e fatores de transcrição TPC, ao quais estão envolvidos com a proliferação celular, o controle da dominância apical e da simetria de órgãos, bem como da curvatura da superfície foliar e da senescência. Os alvos encontrados corroboram com estudos realizados em outras plantas (GUAN et al., 2014; KUO; CHIOU, 2011; LIN et al., 2012; RAJAGOPALAN et al., 2006).

Figura 22 – Alinhamento e estrutura secundária dos precursores de miRNAs identificados nas famílias MIR828 em *S. lycoperscum* e *S. pennellii* e seus ortólogos.

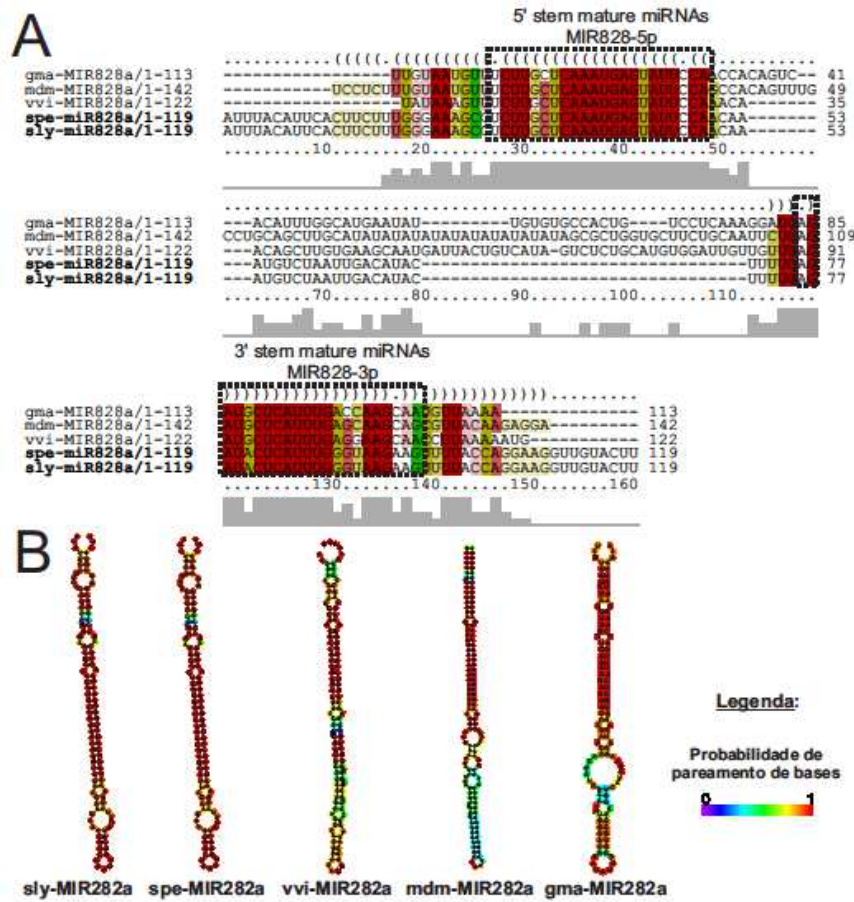
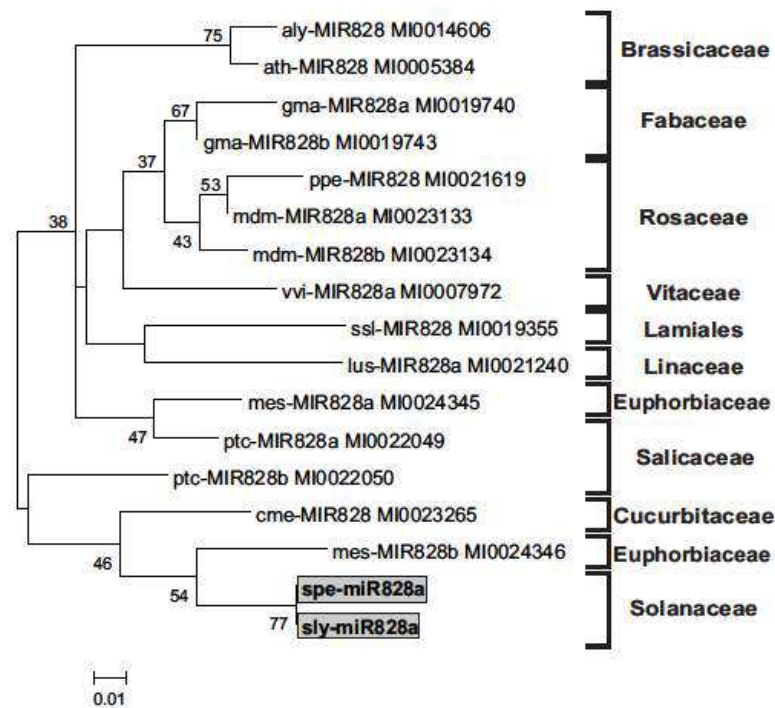


Figura 23 - Árvore filogenética da família MIR828 de *S. lycopersim*, *S. pennellii* e seus ortólogos.



4.2.8 MIR7983

Em *S. lycopersicum*, foram identificados 6 precursores (sly-miR7983-1, sly-miR7983-2, sly-miR7983-3, sly-miR7983-4, sly-miR7983-5 e sly-miR7983-6) e 12 miRNAs maduros (sly-miR7983-1-3p, sly-miR7983-1-5p, sly-miR7983-2-3p, sly-miR7983-2-5p, sly-miR7983-3-3p, sly-miR7983-3-5p, sly-miR7983-4-5p, sly-miR7983-4-3p, sly-miR7983-5-5p, sly-miR7983-5-3p, sly-miR7983-6-5p e sly-miR7983-6-3p) pertencentes à família MIR7983 (Tabela S5). Já em *S. pennellii* conseguimos identificar 7 precursores (spe-miR7983-1, spe-miR7983-2, spe-miR7983-3, spe-miR7983-4, spe-miR7983-5, spe-miR7983-6 e spe-miR7983-7) e 14 miRNAs maduros (spe-miR7983-1-5p, spe-miR7983-1-3p, spe-miR7983-2-5p, spe-miR7983-2-3p, spe-miR7983-3-5p, spe-miR7983-3-3p, spe-miR7983-4-5p, spe-miR7983-4-3p, spe-miR7983-5-5p, spe-miR7983-5-3p, spe-miR7983-6-5p, spe-miR7983-6-3p, spe-miR7983-7-5p e spe-miR7983-7-3p) em MIR7983 (Tabela S6).

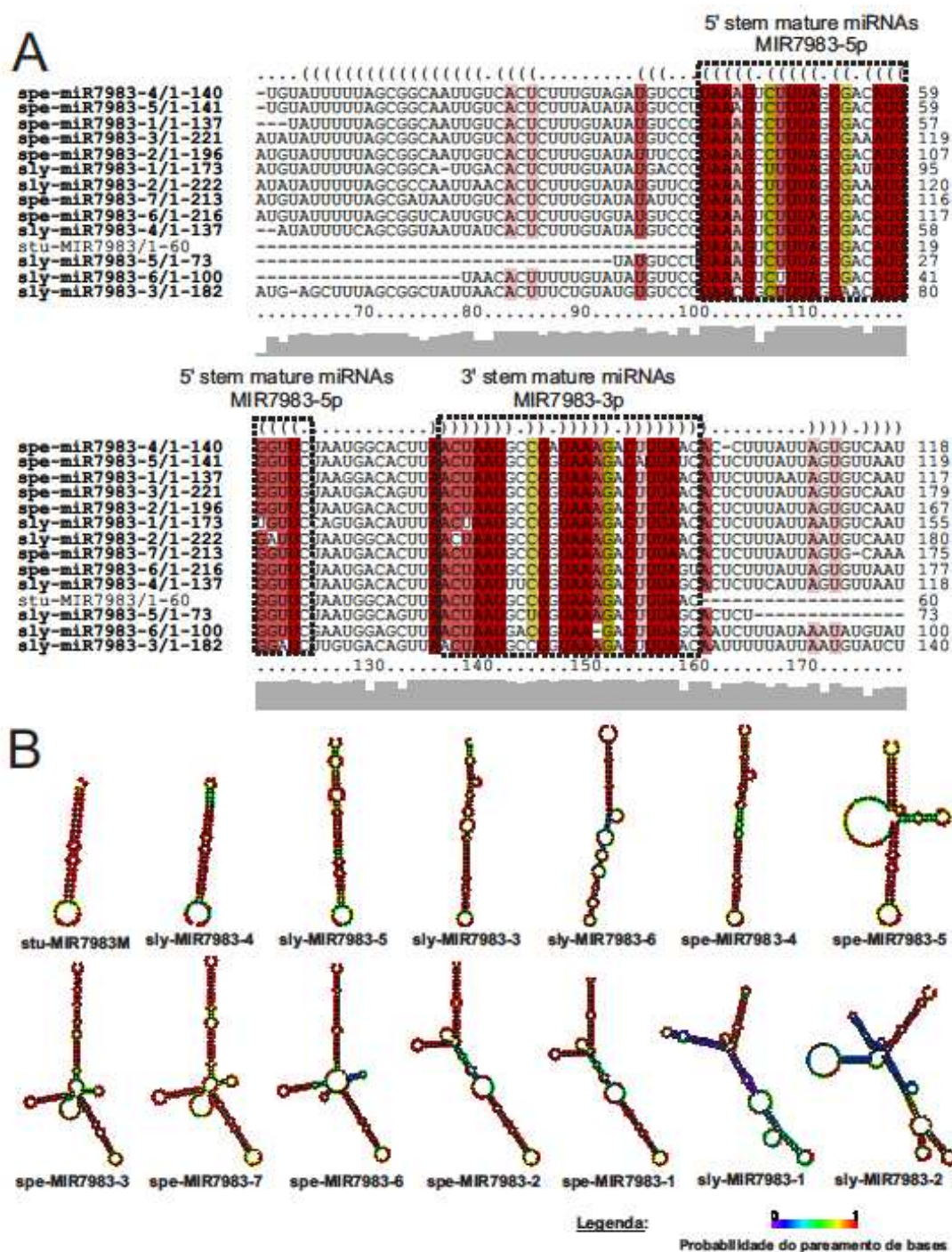
A família MIR7983 foi a terceira família, em *S. lycopersicum* e a quarta em *S. pennellii*, que apresentou maior expressão nas bibliotecas de *reads* sequenciadas de tomate (Figura 9, Figura 10 e Figura S3). Foram identificados, a partir do sequenciamento, 7 e 9 miRNAs maduros em *S. lycopersicum* e *S. pennellii*, respectivamente (Tabela 2 e Tabela 3). Os miRNAs da família MIR7983 foram identificados apenas em *S. tuberosum*, até o momento, e encontradas pela primeira vez em tomate, nesse estudo (miRBase 21 de 2016), sugerindo que esta família possa ser restrita às *Solanaceae* (*solanum-específicas*) (ZHANG et al., 2013).

A análise de conservação foi realizada nas sequências precursoras dos miRNAs da família MIR7983 de *S. lycopersicum* e *S. pennellii*. Foi possível observar uma alta conservação entre os nucleotídeos das sequências analisadas de tomate com seu ortólogo em *S. tuberosum*, principalmente onde estão localizados os miRNAs maduros. Além disso, houve uma conservação significativa das estruturas secundárias preditas dos miRNAs identificados (Figura 24).

Os miRNAs da família MIR7983 apresentaram 47 genes alvos (Tabela S11 e Tabela S12), contendo transcritos que codificam proteínas Acetyltransferases

(GNAT), fosfolipases A2 independente de cálcio, beta-galactosidases 11, fosfatases 2C, alfa/beta hidrolases, ribonuclases T2 e fatores de transcrição GUF1.

Figura 24 – Alinhamento e estrutura secundária dos precursores de miRNAs identificados nas famílias MIR7983 em *S. lycopersicum* e *S. pennellii* e seus ortólogos.



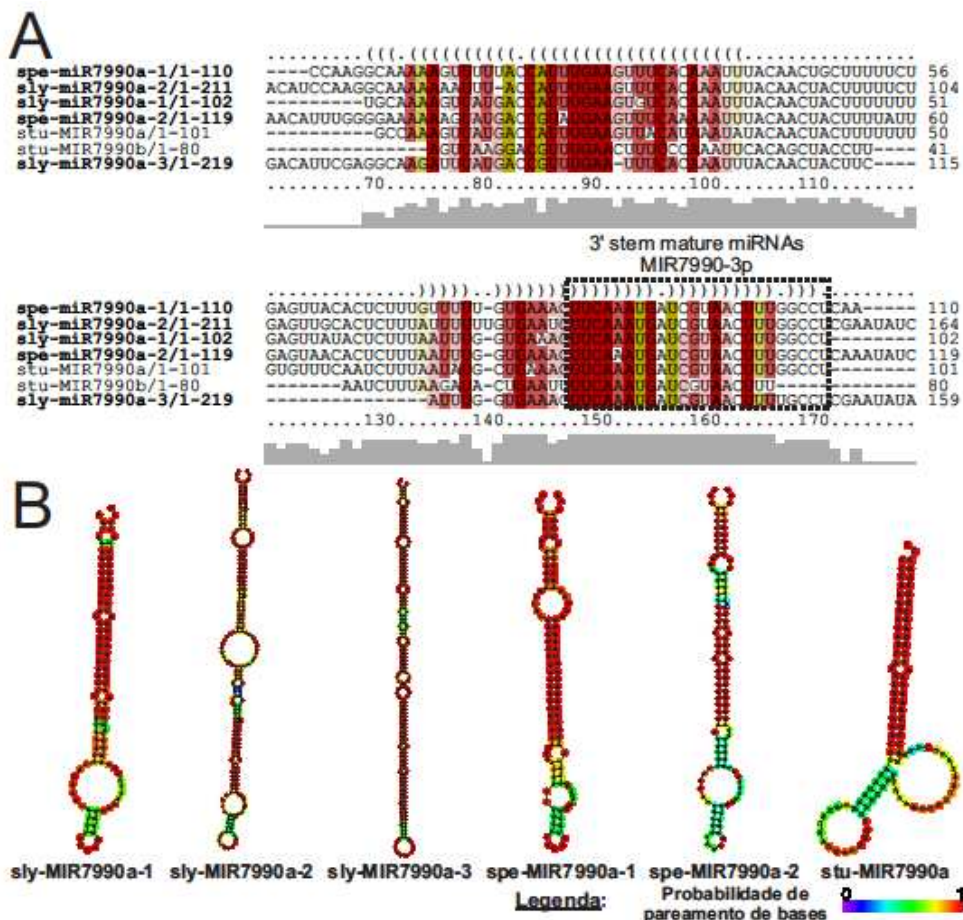
4.2.9 MIR7990

Foram identificados 3 precursores de miRNA (sly-miR7990a-1, sly-miR7990a-2 e sly-miR7990a-3) e 3 miRNAs maduros (sly-miR7990a-1-3p, sly-miR7990a-2-3p e sly-miR7990a-3-3p) de *S. lycopersicum* (Tabela S5) e, 2 precursores (spe-miR7990a-1 e spe-miR7990a-2) e 2 miRNAs maduros (spe-miR7990a-1-3p e spe-miR7990a-2-3p) em *S. pennellii* membros da família MIR7990, identificados pela primeira vez em nosso estudo (Tabela S6). Da mesma forma que na família MIR7983, a família MIR7990 também foi encontrada apenas em *S. tuberosum* (miRBase 21 de 2016), sugerindo que esta família específica para espécies *Solanum* (solanum-específica) (ZHANG et al., 2013).

O alinhamento das sequências primárias de *S. lycopersicum* e *S. pennellii* com seus ortólogos de *S. tuberosum*, apresentou uma elevada conservação, bem como em suas estruturas secundárias (Figura 25).

Os miRNAs sly-miR7990a-1, sly-miR7990a-2, sly-miR7990a-3, sly-miR7990a-1-3p, sly-miR7990a-2-3p e sly-miR7990a-3-3p apresentaram 25 transcritos alvos, como proteínas que contem os domínios NB-ARC e TIR (TIR_2), proteínas serina/treonina fosfatases, glicosil/glicuronosil transferases e MADS-box, uma protease CLP dependente de ATP (subunidade CLPX) e fatores de transcrição *Heat shock* (Tabela S11 e Tabela S12).

Figura 25 – Alinhamento e estrutura secundária dos precursores de miRNAs identificados nas famílias MIR7990 em *S. lycopersicum* e *S. pennellii* e seus ortólogos.



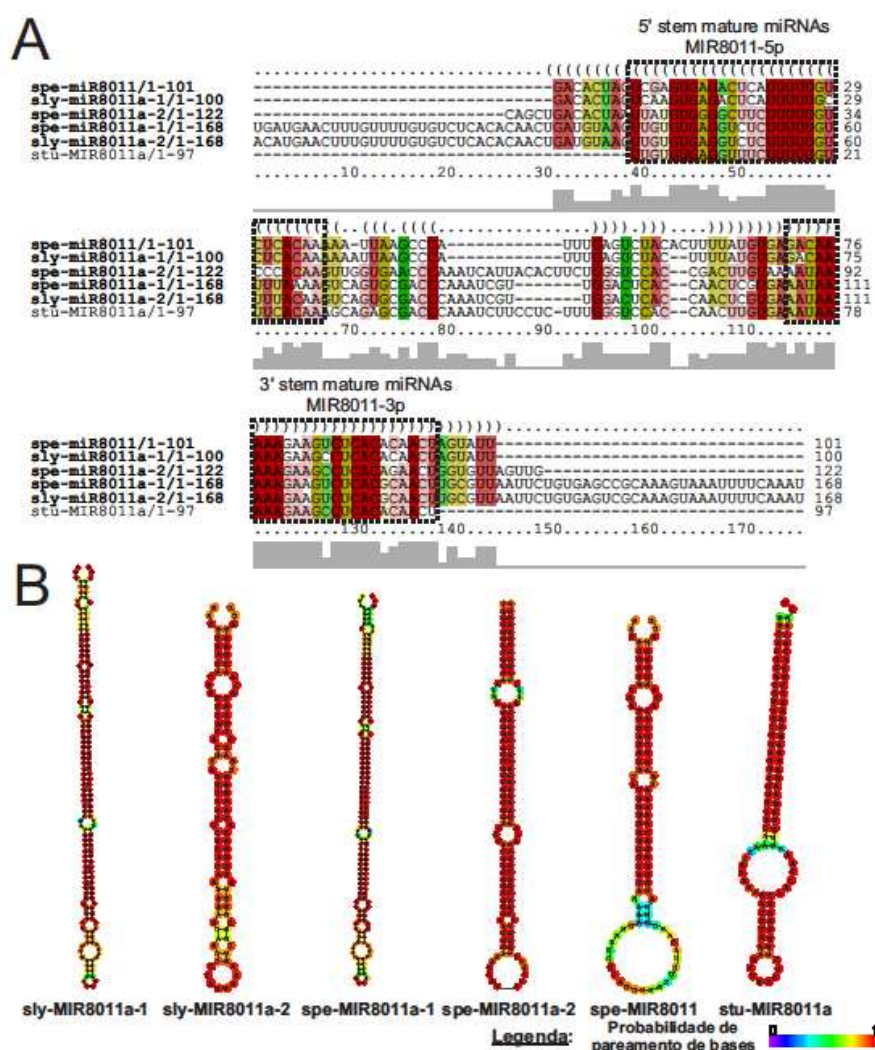
4.2.10 MIR8011

Na família MIR8011 de *S. lycopersicum*, foram identificados 2 precursores de miRNAs (sly-miR8011a-1 e sly-miR8011a-2) e 3 miRNAs maduros (sly-miR8011a-1-3p, sly-miR8011a-2-5p e sly-miR8011a-2-3p) (Tabela S5). Por sua vez, em *S. pennellii*, foram encontrados 3 precursores (spe-miR8011, spe-miR8011a-1 e spe-miR8011a-2) e 5 sequências de miRNAs maduros (spe-miR8011-5p, spe-miR8011-3p, spe-miR8011a-1-5p, spe-miR8011a-1-3p e spe-miR8011a-2-3p) (Tabela S6). Os miRNAs da família MIR8011 foram encontrados em tomate pela primeira vez em nosso estudo. Além dos miRNAs identificados em *S. lycopersicum* e *S. pennellii*, como apresentado, essa família foi encontrada somente em *S. tuberosum* (miRBase 21 de 2016), o que leva a acreditar que esta também seja uma família de miRNAs solanum-específicos (ZHANG et al., 2013).

Os miRNAs sly-miR8011a-1-3p, sly-miR8011a-2-5p, sly-miR8011a-2-3p, spe-miR8011-5p, spe-miR8011-3p, spe-miR8011a-1-5p, spe-miR8011a-1-3p e spe-miR8011a-2-3p mostraram uma elevada conservação em suas sequências, a nível primário e secundário, relacionados com seus ortólogos em *S. tuberosum*. No mesmo sentido, os seus precursores apresentaram uma estrutura secundária que corrobora com miRNAs reais já identificados em outros vegetais (Figura 26).

Foram identificados 40 genes alvos distintos dos miRNAs pertencentes à família MIR8011 em tomate (Tabela S11 e Tabela S12). Dentre os transcritos alvos encontrados estão uma subunidade alfa da importina (*importin subunit alpha*), proteínas da família alfa/beta hidrolases e frutose-bisfosfato aldolase, fatores de transcrição e proteínas *Zinc Finger*, e *EamA-like transporter family* (*EamA*).

Figura 26 – Alinhamento e estrutura secundária dos precursores de miRNAs identificados nas famílias MIR8011 em *S. lycopersicum* e *S. pennellii* e seus ortólogos.

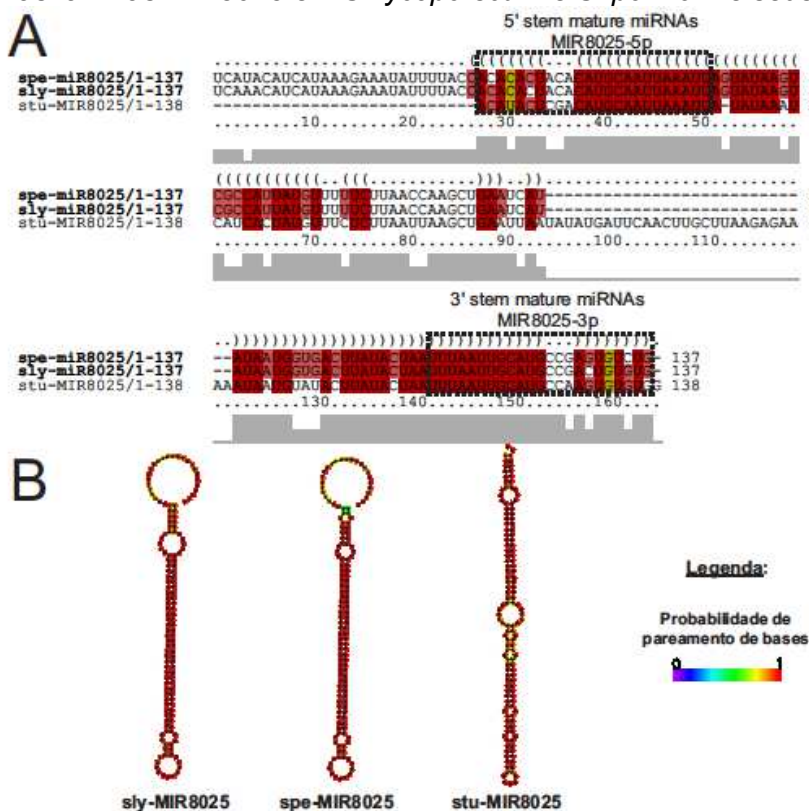


4.2.11 MIR8025

Pertencente às famílias MIR8025, foram encontrados 1 precursor (sly-miR8025 e spe-miR8025) e 2 miRNAs maduros (sly-miR8025-3p, sly-miR8025-5p e spe-miR8025-3p, spe-miR8025-5p) em cada espécie de tomate estudada pela primeira vez em nosso estudo (Tabela S5 e Tabela S6). Zhang et al (2013) também identificou miRNAs da família MIR8025 em *S. tuberosum* (ZHANG et al., 2013). A partir da alta conservação observada entre as sequências primárias e secundárias de miR8025 de *S. lycoperscum*, *S. pennellii* e *S. tuberosum* (Figura 27), e de ser uma família encontrada apenas em *Solanum* spp, podemos sugerir que MIR8025 é uma família solanum-específica.

Além disso, foram identificados os transcritos Solyc08g082630.2.1, Solyc03g115120.1.1, Sopen04g002800.2, Sopen04g002800.1, como alvos dos miRNAs da família MIR8025 em *S. lycoperscum* e *S. pennellii*, os quais codificam proteínas do tipo quinase e fatores de transcrição de resposta a auxina do tipo 12 (ARF12), mostrando a importância da regulação realizada por esses miRNAs (Tabela S11 e Tabela S12).

Figura 27 – Alinhamento e estrutura secundária dos precursores de miRNAs identificados nas famílias MIR8025 em *S. lycoperscum* e *S. pennellii* e seus ortólogos.



6 CONCLUSÃO

Na identificação dos miRNAs presentes em uma planta, os genes envolvidos em seu processamento e os genes alvos regulados por esses pequenos RNAs são importantes para o entendimento de sua biologia vegetal. Para conhecer melhor esses mecanismos em *S. lycopersicum* e *S. pennellii*, duas importantes espécies de olerícolas, foi realizada uma análise computacional integrada para sequências genômicas depositadas em banco de dados públicos, bem como de sequências obtidas do sequenciamento de nova geração (smallRNA-seq – NGS). Foi possível identificar 65 proteínas em *S. lycopersicum* e 109 em *S. pennellii* envolvidas no processamento pequenos RNAs. Pelo menos 23 (*S. lycopersicum*) e 33 (*S. pennellii*) destas proteínas participam da via de processamento de miRNAs. Além disso, foram identificados 342 diferentes miRNAs maduros, 226 pré-miRNAs em 87 famílias distintas, incluindo 192 miRNAs maduros não identificados anteriormente na literatura ou banco de dados, pertencentes à 38 novas famílias em *S. lycopersicum*. Em *S. pennellii* foram identificados 338 miRNAs maduros distintos, 234 pré-miRNAs contidos em 85 famílias. Todos os miRNAs encontrados em *S. pennellii* foram inéditos, sendo identificados pela primeira vez em nosso estudo. A partir do sequenciamento, conseguimos validar 69 e 65 miRNAs maduros distribuídos em 29 e 28 famílias em *S. lycopersicum* e *S. pennellii*, respectivamente. Esse número de miRNAs validados foi pequeno, devido à baixa quantidade de *reads* obtidas no sequenciamento, sendo necessário outros experimentos para uma melhor confirmação da presença dos miRNAs identificados nas espécies de tomate estudadas. Ainda, foram identificados 1310 diferentes genes alvos dos miRNAs em *S. lycopersicum* e 2772 em *S. pennellii*, o que sugere que os miRNAs encontrados possuem importantes papéis no desenvolvimento da planta, adaptação ao stress, regulação da resposta hormonal, defesa contra patógenos e outros processos importantes para a biologia, reprodução e comercialização dessas espécies de tomate. O estudo filogenético indicou que existe um nível elevado de conservação utilizando miRNAs, seus alvos e as proteínas envolvidas em sua biogênese. Isto sugere que os resultados obtidos em outras espécies de plantas, e especialmente em outras olerícolas, tais como a batata (*S. tuberosum*),

também pode ser aplicado em *S. lycopersicum* e *S. pennellii* e vice-versa. Desse modo, os nossos resultados ampliam o estudo dos miRNAs em plantas, proporcionando novos desafios para compreensão de processos essenciais na regulação baseada em miRNAs em tomate.

REFERÊNCIAS

- AFLITOS, S. et al. Exploring genetic variation in the tomato (*Solanum section Lycopersicon*) clade by whole-genome sequencing. **Plant Journal**, v. 80, n. 1, p. 136–148, 2014.
- AGRAWAL, N. et al. RNA Interference : Biology , Mechanism , and Applications. **Microbiology And Molecular Biology Reviews**, v. 67, n. 4, p. 656–685, 2003.
- ALLEN, E. et al. microRNA-directed phasing during trans-acting siRNA biogenesis in plants. **Cell**, v. 121, n. 2, p. 207–21, 22 abr. 2005.
- ALSEEKH, S. et al. Resolution by recombination: Breaking up *Solanum pennellii* introgressions. **Trends in Plant Science**, v. 18, n. 10, p. 536–538, 2013.
- AMBROS, V. et al. A uniform system for microRNA annotation A uniform system for microRNA annotation. **RNA - A Publication of the RNA Society**, v. 9, p. 277–279, 2003.
- AXTELL, M. J. Classification and comparison of small RNAs from plants. **Annual review of plant biology**, v. 64, p. 137–59, jan. 2013.
- AXTELL, M. J.; WESTHOLM, J. O.; LAI, E. C. Vive la différence: biogenesis and evolution of microRNAs in plants and animals. **Genome Biology**, v. 12, n. 4, p. 221, 2011.
- BAI, Y.; LINDHOUT, P. Domestication and breeding of tomatoes: What have we gained and what can we gain in the future? **Annals of Botany**, v. 100, n. 5, p. 1085–1094, 2007.
- BALDRICH, P. et al. MicroRNA-mediated regulation of gene expression in the response of rice plants to fungal elicitors. **RNA Biology**, v. 6286, n. December, p. 00–00, 2015.
- BARIK, S. et al. Phylogenetic analysis reveals conservation and diversification of micro RNA166 genes among diverse plant species. **Genomics**, v. 103, n. 1, p. 114–121, 2014.
- BAROZAI, M. Y. K.; BALOCH, I. A.; DIN, M. Identification of MicroRNAs and their targets in *Helianthus*. **Mol Biol Rep**, v. 39, 2012.
- BARTEL, D. P. MicroRNAs : Genomics , Biogenesis , Mechanism , and Function Genomics : The miRNA Genes. **Cell**, v. 116, p. 281–297, 2004.
- BAUCHET, G.; CAUSSE, M. Genetic Diversity in Tomato (*Solanum lycopersicum*) and Its Wild Relatives. **Genetic diversity in plants**, p. 133–162, 2012.
- BAUMBERGER, N.; BAULCOMBE, D. C. Arabidopsis ARGONAUTE1 is an RNA Slicer that selectively recruits microRNAs and short interfering RNAs. **Proceedings of the National Academy of Sciences of the United States of America**, v. 102, n. 33, p. 11928–33, 2005.

- BEDINGER, P. A. et al. Interspecific reproductive barriers in the tomato clade: Opportunities to decipher mechanisms of reproductive isolation. **Sexual Plant Reproduction**, v. 24, n. 3, p. 171–187, 2011.
- BENTWICH, I. Prediction and validation of microRNAs and their targets. **FEBS letters**, v. 579, n. 26, p. 5904–10, 31 out. 2005.
- BOLGER, A. et al. The genome of the stress-tolerant wild tomato species *Solanum pennellii*. **Nature Genetics**, v. 46, n. 9, p. 1034–1038, 2014.
- BOLOGNA, N. G.; VOINNET, O. The diversity, biogenesis, and activities of endogenous silencing small RNAs in *Arabidopsis*. **Annual review of plant biology**, v. 65, p. 473–503, jan. 2014.
- BONNET, E. et al. Detection of 91 potential conserved plant microRNAs in *Arabidopsis thaliana* and *Oryza sativa* identifies important target genes. **Proceedings of the National Academy of Sciences of the United States of America**, v. 101, n. 31, p. 11511–11516, 2004.
- BRODERSEN, P.; VOINNET, O. The diversity of RNA silencing pathways in plants. **Trends in genetics : TIG**, v. 22, n. 5, p. 268–80, maio 2006.
- BUDAK, H.; AKPINAR, B. A. Plant miRNAs: biogenesis, organization and origins. **Functional & integrative genomics**, v. 15, n. 5, p. 523–31, 2015.
- CAMARGO, A. M. M. P. DE. Desenvolvimento do sistema agroindustrial de tomate. **Informações Econômicas**, p. 53–65, 2006.
- CAMPOS, M. L. et al. Small and remarkable: The Micro-Tom model system as a tool to discover novel hormonal functions and interactions. **Plant Signal Behav**, v. 5, n. 3, p. 267–270, 2010.
- CAO, X. et al. Identification of chilling stress-responsive tomato microRNAs and their target genes by high-throughput sequencing and degradome analysis. **BMC genomics**, v. 15, n. 1, p. 1–16, 2014.
- CARTHEW, R. W.; SONTHEIMER, E. J. Origins and Mechanisms of miRNAs and siRNAs. **Cell**, v. 136, n. 4, p. 642–655, 20 fev. 2009.
- CARVALHO, C. R. F. **Sustentabilidade E Análise Econômica Da Tomaticultura De Cambuci-Rj Universidade Estadual Do Norte Fluminense Tomaticultura De Cambuci-Rj**. [s.l: s.n.].
- CHEN, X. MicroRNA Metabolism in Plants. **Current Topics in Microbiology and Immunology**, v. 320, p. 117–136, 2008.
- CHEN, Z. H. et al. Regulation of auxin response by miR393-targeted transport inhibitor response protein 1 is involved in normal development in *Arabidopsis*. **Plant Molecular Biology**, v. 77, n. 6, p. 619–629, 2011.
- CONTRERAS-CUBAS, C. et al. Non-coding RNAs in the plant response to abiotic stress. **Planta**, v. 236, n. 4, p. 943–958, 2012.

- CROOKS, G. E. et al. WebLogo : A Sequence Logo Generator. **Genome research**, p. 1188–1190, 2004.
- DAI, X.; ZHAO, P. X. psRNATarget: a plant small RNA target analysis server. **Nucleic acids research**, v. 39, n. Web Server issue, p. 155–159, jul. 2011.
- DE SOUSA CARDOSO, T. C. et al. Genome-wide identification and *in silico* characterisation of microRNAs, their targets and processing pathway genes in *Phaseolus vulgaris* L. **Plant Biology**, v. 18, p. n/a–n/a, 2015.
- DE SOUZA GOMES, M. et al. Genome-wide identification of novel microRNAs and their target genes in the human parasite *Schistosoma mansoni*. **Genomics**, v. 98, n. 2, p. 96–111, ago. 2011.
- DHIR, A.; PROUDFOOT, N. J. Feed backwards model for microRNA processing and splicing in plants. **EUROPEAN MOLECULAR BIOLOGY ORGANIZATION: EMBO reports**, v. 14, n. 7, p. 581–2, jul. 2013.
- DIN, M.; BAROZAI, M. Y. K. Profiling microRNAs and their targets in an important fleshy fruit: Tomato (*Solanum lycopersicum*). **Gene**, v. 535, n. 2, p. 198–203, 2014.
- DOENCH, J. G.; PETERSEN, C. P.; SHARP, P. A. siRNAs can function as miRNAs. **Genes & development**, v. 17, n. 4, p. 438–442, 15 fev. 2003.
- ERCOLANO, M. R. et al. Genetic and genomic approaches for R-gene mediated disease resistance in tomato: Retrospects and prospects. **Plant Cell Reports**, v. 31, n. 6, p. 973–985, 2012.
- FAHLGREN, N. et al. High-throughput sequencing of Arabidopsis microRNAs: Evidence for frequent birth and death of MIRNA genes. **PLoS ONE**, v. 2, n. 2, 2007.
- FAN, S. SHAN et al. Identification of microRNAs in two species of tomato, *Solanum lycopersicum* and *Solanum habrochaites*, by deep sequencing. **Journal of Integrative Agriculture**, v. 14, n. 1, p. 42–49, 2015.
- FAO, F. AND A. O. **FAOSTAT: Statistics Division**. Disponível em: <http://faostat3.fao.org/download/Q/*E>.
- FENG, J. et al. Identification of microRNAs and their targets in tomato infected with Cucumber mosaic virus based on deep sequencing. **Planta**, v. 240, n. 6, p. 1335–1352, 2014.
- FERNANDEZ-POZO, N. et al. The Sol Genomics Network (SGN)-from genotype to phenotype to breeding. **Nucleic Acids Research**, v. 43, n. D1, p. D1036–D1041, 2015.
- FOURACRE, J. P.; POETHIG, R. S. The role of small RNAs in vegetative shoot development. **Current Opinion in Plant Biology**, v. 29, p. 64–72, 2016.
- GAO, P. et al. Osa-MIR393: A salinity- and alkaline stress-related microRNA gene. **Molecular Biology Reports**, v. 38, n. 1, p. 237–242, 2011.

- GARDNER, P. P. et al. Rfam: updates to the RNA families database. **Nucleic acids research**, v. 37, n. Database issue, p. 136–140, jan. 2009.
- GERSZBERG, A.; HNATUSZKO-KONKA, K. Tomato (*Solanum Lycopersicum*) in the service of biotechnology. **Plant cell, Tissue and Organ Culture**, v. 120, p. 881–902, 2015.
- GIOVANNONI, J. J. Genetic regulation of fruit development and ripening. **The Plant cell**, v. 16 Suppl, p. S170–S180, 2004.
- GOMES, M. S. et al. Preliminary analysis of miRNA pathway in *Schistosoma mansoni*. **Parasitology international**, v. 58, n. 1, p. 61–68, mar. 2009.
- GUAN, X. et al. miR828 and miR858 regulate homoeologous MYB2 gene functions in *Arabidopsis* trichome and cotton fibre development. **Nature Communications**, v. 5, n. May 2013, p. 3050, 2014.
- HIRAKAWA, H. et al. Genome-wide SNP genotyping to infer the effects on gene functions in tomato. **DNA Research**, v. 20, n. 3, p. 221–233, 2013.
- HÖCK, J.; MEISTER, G. The Argonaute protein family. **Genome biology**, v. 9, n. 2, p. 210, jan. 2008.
- HUANG, Y. et al. The discovery approaches and detection methods of microRNAs. **Molecular biology reports**, v. 38, n. 6, p. 4125–4135, ago. 2011.
- IBGE, I. B. DE G. E E. Levantamento Sistemático da Produção Agrícola (LSPA): Pesquisa mensal de previsão e acompanhamento das safras agrícolas no ano civil. **Levantamento Sistemático da Produção Agrícola (LSPA)**, p. 13, 2016.
- ITAYA, A. et al. Small RNAs in tomato fruit and leaf development. **Biochimica et biophysica acta**, v. 1779, n. 2, p. 99–107, 2008.
- ITOH, J.-I. et al. Developmental role and auxin responsiveness of Class III homeodomain leucine zipper gene family members in rice. **Plant physiology**, v. 147, n. 4, p. 1960–75, 2008.
- JAGADEESWARAN, G. et al. Cloning and characterization of small RNAs from *Medicago truncatula* reveals four novel legume-specific microRNA families. **New Phytologist**, p. 85–98, 2009.
- Jl, X. The Mechanism of RNase III Action : How Dicer Dices. **Current Topics in Microbiology and Immunology**, p. 99 – 116, 2008.
- JIN, W.; WU, F. Characterization of miRNAs associated with *Botrytis cinerea* infection of tomato leaves. **BMC Plant Biology**, v. 15, n. 1, p. 1, 2015.
- JOHNSON, C. et al. CSRDB: A small RNA integrated database and browser resource for cereals. **Nucleic Acids Research**, v. 35, n. SUPPL. 1, p. 4–7, 2007.
- JONES, D.; TAYLOR, W.; THORNTON, J. The Rapid Generation of Mutation Data Matrices From Protein Sequences. **Computer Applications in the Biosciences**, v. 8, n. 3, p. 275–282, 1992.

JONES-RHOADES, M. W.; BARTEL, D. P. Computational identification of plant MicroRNAs and their targets, including a stress-induced miRNA. **Molecular Cell**, v. 14, n. 6, p. 787–799, 2004.

JONES-RHOADES, M. W.; BARTEL, D. P.; BARTEL, B. MicroRNAs and their regulatory roles in plants. **Annual review of plant biology**, v. 57, p. 19–53, jan. 2006.

KAMENETZKY, L. et al. Genomic Analysis of Wild Tomato Introgressions Determining Metabolism- and Yield-Associated Traits. **Plant Physiology**, v. 152, n. 4, p. 1772–1786, 2010.

KANG, Z. et al. Small RNA regulators in bacteria: Powerful tools for metabolic engineering and synthetic biology. **Applied Microbiology and Biotechnology**, v. 98, n. 8, p. 3413–3424, 2014.

KAPOOR, M. et al. Genome-wide identification, organization and phylogenetic analysis of Dicer-like, Argonaute and RNA-dependent RNA Polymerase gene families and their expression analysis during reproductive development and stress in rice. **BMC genomics**, v. 9, p. 451, jan. 2008.

KHALDUN, A. B. M. et al. Identification of MicroRNAs and target genes in the fruit and shoot tip of Lycium chinense: A traditional chinese medicinal plant. **PLoS ONE**, v. 10, n. 1, p. 1–21, 2015.

KIDNER, C. A; MARTIENSSEN, R. A. The developmental role of microRNA in plants. **Current opinion in plant biology**, v. 8, n. 1, p. 38–44, fev. 2005.

KIM, H.-J. et al. In silico identification and characterization of microRNAs and their putative target genes in Solanaceae plants. **Genome**, v. 54, p. 91–98, 2011.

KIM, V. N. Sorting Out Small RNAs. **Cell**, v. 133, n. 1, p. 25–26, 2008.

KIM, V. N.; HAN, J.; SIOMI, M. C. Biogenesis of small RNAs in animals. **Nature reviews. Molecular cell biology**, v. 10, n. 2, p. 126–139, fev. 2009.

KIMURA, S.; SINHA, N. Tomato (*Solanum lycopersicum*): A model fruit-bearing crop. **Cold Spring Harbor Protocols**, v. 3, n. 11, 2008.

KINOSHITA, N. et al. IAA-Ala Resistant3, an Evolutionarily Conserved Target of miR167, Mediates Arabidopsis Root Architecture Changes during High Osmotic Stress. **The Plant Cell**, v. 24, n. 9, p. 3590–3602, 2012.

KNAPP, S. Tobacco to tomatoes: a phylogenetic perspective on fruit diversity in the Solanaceae. **Journal of experimental botany**, v. 53, n. 377, p. 2001–2022, 2002.

KO, J. H.; PRASSINOS, C.; HAN, K. H. Developmental and seasonal expression of PtaHB1, a Populus gene encoding a class III HD-Zip protein, is closely associated with secondary growth and inversely correlated with the level of microRNA (miR166). **New Phytologist**, v. 169, n. 3, p. 469–478, 2006.

KOBAYASHI, M. et al. Genome-wide analysis of intraspecific dna polymorphism in

“micro-tom”, a model cultivar of tomato (*solanum lycopersicum*). **Plant and Cell Physiology**, v. 55, n. 2, p. 445–454, 2014.

KUO, H.-F.; CHIOU, T.-J. The role of microRNAs in phosphorus deficiency signaling. **Plant physiology**, v. 156, n. 3, p. 1016–1024, 2011.

KWAK, P. B. et al. Enrichment of a set of microRNAs during the cotton fiber development. **BMC genomics**, v. 10, p. 457, 2009.

LAKHOTIA, N. et al. Identification and characterization of miRNAome in root, stem, leaf and tuber developmental stages of potato (*Solanum tuberosum* L.) by high-throughput sequencing. **BMC plant biology**, v. 14, n. 1, p. 6, 2014.

LANG, Q. et al. Microarray-based identification of tomato microRNAs and time course analysis of their response to Cucumber mosaic virus infection. **Journal of Zhejiang University. Science. B**, v. 12, n. 2, p. 116–25, 2011a.

LANG, Q. et al. Tobacco microRNAs prediction and their expression infected with Cucumber mosaic virus and Potato virus X. **Molecular Biology Reports**, v. 38, n. 3, p. 1523–1531, 2011b.

LARKIN, M. A et al. Clustal W and Clustal X version 2.0. **Bioinformatics (Oxford, England)**, v. 23, n. 21, p. 2947–8, 1 nov. 2007.

LAURESSERGUES, D. et al. Primary transcripts of microRNAs encode regulatory peptides. **Nature**, v. 520, p. 90–93, 2015.

LI, A.; MAO, L. Evolution of plant microRNA gene families. **Cell research**, v. 17, n. 3, p. 212–8, mar. 2007.

LI, J. et al. Methylation protects miRNAs and siRNAs from a 3'→5' uridylation activity in Arabidopsis. **Current Biology**, v. 15, n. 16, p. 1501–1507, 2005.

LI, L. et al. Computational approaches for microRNA studies: a review. **Mammalian genome : official journal of the International Mammalian Genome Society**, v. 21, n. 1-2, p. 1–12, fev. 2010a.

LI, Y. et al. Identification of MicroRNAs Involved in Pathogen-Associated Molecular Pattern-Triggered Plant Innate Immunity. **Plant Physiology**, v. 152, n. 4, p. 2222–2231, 2010b.

LIN, J. S. et al. MicroR828 regulates lignin and H₂O₂ accumulation in sweet potato on wounding. **New Phytologist**, v. 196, n. 2, p. 427–440, 2012.

LIU, B. et al. Loss of Function of OsDCL1 Affects MicroRNA Accumulation and Causes Developmental. **Plant physiology**, v. 139, n. September, p. 296–305, 2005.

LIU, Q.; FENG, Y.; ZHU, Z. Dicer-like (DCL) proteins in plants. **Funct Integr Genomics**, p. 277–286, 2009.

LIU, W. et al. Analysis of miRNAs and their targets during adventitious shoot organogenesis of *Acacia crassicaarpa*. **PloS one**, v. 9, n. 4, p. e93438, jan. 2014.

- LU, C. et al. Elucidation of the small RNA component of the transcriptome. **Science**, v. 309, n. 5740, p. 1567–1569, 2005.
- LU, S.; SUN, Y. H.; CHIANG, V. L. Stress-responsive microRNAs in Populus. **Plant Journal**, v. 55, n. 1, p. 131–151, 2008.
- LUAN, Y.; WANG, W.; LIU, P. Identification and functional analysis of novel and conserved microRNAs in tomato. **Molecular Biology Reports**, v. 41, n. 8, p. 5385–5394, 2014.
- LUKYANENKO, A. N. Disease Resistance in Tomato. In: **Monographs on Theoretical and Applied Genetics**. [s.l: s.n.]. p. 99–119.
- LUNDMARK, M.; KØRNER, C. J.; NIELSEN, T. H. Global analysis of microRNA in Arabidopsis in response to phosphate starvation as studied by locked nucleic acid-based microarrays. **Physiologia Plantarum**, v. 140, n. 1, p. 57–68, 2010.
- M. A. STEVENS; RICK C. M. Genetics and Breeding. **Science (New York, N.Y.)**, v. 37, n. 954, p. 35–100, 1986.
- MALLORY, A. C.; VAUCHERET, H. Functions of microRNAs and related small RNAs in plants. **Nature genetics**, v. 38, n. June, p. 31–37, 2006a.
- MALLORY, A. C.; VAUCHERET, H. Functions of microRNAs and related small RNAs in plants. **Nature Genetics**, v. 38 Suppl, n. June, p. S31–S36, 2006b.
- MALLORY, A.; VAUCHERET, H. Form, function, and regulation of ARGONAUTE proteins. **The Plant cell**, v. 22, n. 12, p. 3879–89, dez. 2010.
- MARGIS, R. et al. The evolution and diversification of Dicers in plants. **FEBS letters**, v. 580, n. 10, p. 2442–50, 1 maio 2006.
- MARTÍNEZ DE ALBA, A. E.; ELVIRA-MATELOT, E.; VAUCHERET, H. Gene silencing in plants: a diversity of pathways. **Biochimica et biophysica acta**, v. 1829, n. 12, p. 1300–8, dez. 2013.
- MCDANIEL, T. et al. Novel resistance mechanisms of a wild tomato against the glasshouse whitefly. **Agronomy for Sustainable Development**, v. 36, n. 1, p. 1–11, 2016.
- MITTOVA, V.; VOLOKITA, M.; GUY, M. **Antioxidative Systems and Stress Tolerance: Insight from Wild and Cultivated Tomato Species**. [s.l: s.n.]. v. 23
- MOAZED, D. Small RNAs in transcriptional gene silencing and genome defence. **Nature**, v. 457, n. 7228, p. 413–420, 22 jan. 2009.
- MONTEIRO, C. S. et al. Qualidade Nutricional E Antioxidante Do Tomate “ Tipo Italiano ”. **Alim. Nutr.**, v. 19, n. 1, p. 25–31, 2008.
- MONTES, R. A C. et al. Sample sequencing of vascular plants demonstrates widespread conservation and divergence of microRNAs. **Nature communications**, v. 5, p. 3722, jan. 2014.
- MOXON, S. et al. Deep sequencing of tomato short RNAs identifies microRNAs

targeting genes involved in fruit ripening. **Genome Research**, v. 18, n. 10, p. 1602–1609, 2008.

NAGESHBABU, R. et al. Computational Identification of conserved miRNAs and their potential targets in French bean (*Phaseolus vulgaris*). **Research Journal of Pharmaceutical , Biological and Chemical Sciences**, v. 3, n. 4, p. 562–568, 2012.

NAIKA, S. et al. **A cultura do tomate**. [s.l.: s.n.].

NOSENKO, T. et al. Adaptation to low temperatures in the wild tomato species *Solanum chilense*. **Molecular Ecology**, p. n/a–n/a, 2016.

OUYANG, S. et al. MicroRNAs Suppress NB Domain Genes in Tomato That Confer Resistance to *Fusarium oxysporum*. **PLoS Pathogens**, v. 10, n. 10, 2014.

PADMANABHAN, P. K. et al. Novel Features of a PIWI-Like Protein Homolog in the Parasitic Protozoan *Leishmania*. **PLoS ONE**, v. 7, n. 12, 2012.

PANT, B. D. et al. Identification of nutrient-responsive Arabidopsis and rapeseed microRNAs by comprehensive real-time polymerase chain reaction profiling and small RNA sequencing. **Plant physiology**, v. 150, n. 3, p. 1541–1555, 2009.

PERALTA, I. E. et al. Morphological Characterization and Relationships of Wild Tomatoes (*Solanum* L. sect. *Lycopersicon*). **Monographs In Systematic Botany**, v. 104, p. 227–257, 2005.

PERALTA, I. E.; KNAPP, S.; SPOONER, D. M. New Species of Wild Tomatoes (<I>*Solanum*</I> Section <I>*Lycopersicon*</I>: *Solanaceae*) from Northern Peru. **Systematic Botany**, v. 30, n. 2, p. 424–434, 2005.

PEREZ-FONS, L. et al. A genome-wide metabolomic resource for tomato fruit from *Solanum pennellii*. **Scientific reports**, v. 4, p. 3859, 2014.

PETERS, L.; MEISTER, G. Argonaute proteins: mediators of RNA silencing. **Molecular cell**, v. 26, n. 5, p. 611–23, 8 jun. 2007.

PILCHER, R. L. R. et al. Identification of novel small RNAs in tomato (*Solanum lycopersicum*). **Planta**, v. 226, n. 3, p. 709–717, 2007.

PRADHAN, B. et al. Prediction and characterization of Tomato leaf curl New Delhi virus (ToLCNDV) responsive novel microRNAs in *Solanum lycopersicum*. **Virus Research**, v. 195, p. 183–195, 2015.

RAJAGOPALAN, R. et al. A diverse and evolutionarily fluid set of microRNAs in *Arabidopsis thaliana*. **Genes & development**, p. 3407–3425, 2006.

RAO, D. D. et al. siRNA vs. shRNA: similarities and differences. **Advanced drug delivery reviews**, v. 61, n. 9, p. 746–59, 25 jul. 2009.

RICK, C. M.; TANKSLEY, S. D. Genetic variation in *Solanum pennellii*: Comparisons with two other sympatric tomato species. **Plant Systematics and Evolution**, v. 139, n. 1-2, p. 11–45, 1981.

- ROBERT-SEILANIANTZ, A. et al. The microRNA miR393 re-directs secondary metabolite biosynthesis away from camalexin and towards glucosinolates. **Plant Journal**, v. 67, n. 2, p. 218–231, 2011.
- ROGERS, K.; CHEN, X. Biogenesis, turnover, and mode of action of plant microRNAs. **The Plant cell**, v. 25, n. 7, p. 2383–99, 2013.
- ROSAS-CÁRDENAS, F. D. F. et al. miRNA expression during prickly pear cactus fruit development. **Planta**, 4 nov. 2014.
- RU, P. et al. Plant fertility defects induced by the enhanced expression of microRNA167. **Cell research**, v. 16, n. 5, p. 457–465, 2006.
- SAITOU, N.; NEI, M. The Neighbor-joining Method : A New Method for Reconstructing Phylogenetic Trees '. **Molecular Biology And Evolution**, v. 4, n. 4, p. 406–425, 1987.
- SATO, S. et al. The tomato genome sequence provides insights into fleshy fruit evolution. **Nature**, v. 485, n. 7400, p. 635–641, 2012.
- SATO, S.; TABATA, S. Tomato Genome Sequence. In: **Biotechnology in Agriculture and Forestry**. [s.l: s.n.]. v. 70p. 175–197.
- SHEN, J.; XIE, K.; XIONG, L. Global expression profiling of rice microRNAs by one-tube stem-loop reverse transcription quantitative PCR revealed important roles of microRNAs in abiotic stress responses. **Molecular Genetics and Genomics**, v. 284, n. 6, p. 477–488, 2010.
- SI-AMMOUR, A. et al. miR393 and Secondary siRNAs Regulate Expression of the TIR1/AFB2 Auxin Receptor Clade and Auxin-Related Development of Arabidopsis Leaves. **Plant Physiology**, v. 157, n. 2, p. 683–691, 2011.
- SPOONER, D.; PERALTA, I. E.; KNAPP, S. Comparison of AFLPs with other markers for phylogenetic inference in wild tomatoes \n\n. **Taxon**, v. 54, n. 1, p. 43–61, 2005.
- SRIVASTAVA, P. K. et al. A comparison of performance of plant miRNA target prediction tools and the characterization of features for genome-wide target prediction. **BMC genomics**, v. 15, n. 1, p. 348, jan. 2014.
- STEVENS, P. F. **Angiosperm Phylogeny Website**. Disponível em: <<http://www.mobot.org/MOBOT/research/APweb/>>.
- SUNKAR, R. et al. Identification of novel and candidate miRNAs in rice by high throughput sequencing. **BMC plant biology**, v. 8, p. 25, jan. 2008.
- SUNKAR, R.; GIRKE, T.; ZHU, J.-K. Identification and characterization of endogenous small interfering RNAs from rice. **Nucleic acids research**, v. 33, n. 14, p. 4443–4454, jan. 2005.
- SUNKAR, R.; JAGADEESWARAN, G. In silico identification of conserved microRNAs in large number of diverse plant species. **BMC plant biology**, v. 8, p. 37, 2008a.

SUNKAR, R.; JAGADEESWARAN, G. In silico identification of conserved microRNAs in large number of diverse plant species. **BMC plant biology**, v. 8, p. 37, jan. 2008b.

TACO. Tabela brasileira de composição de alimentos. **NEPA - Unicamp**, p. 161, 2011.

TAKANE, K. et al. Computational prediction and experimental validation of evolutionarily conserved microRNA target genes in bilaterian animals. **BMC genomics**, p. 1–13, 2010.

TAMURA, K. et al. MEGA5: molecular evolutionary genetics analysis using maximum likelihood, evolutionary distance, and maximum parsimony methods. **Molecular biology and evolution**, v. 28, n. 10, p. 2731–9, out. 2011.

TURCHI, L. et al. Interplay of HD-Zip II and III transcription factors in auxin-regulated plant development. **Journal of Experimental Botany**, v. 66, n. 16, p. 5043–5053, 2015.

VALIOLLAHI, E. et al. Bioinformatic characterization and expression analysis of miRNAs in *Solanum lycopersicum*. **Plant OMICS**, v. 7, n. 2, p. 108–116, 2014.

VIDIGAL, J. A.; VENTURA, A. The biological functions of miRNAs: Lessons from in vivo studies. **Trends in Cell Biology**, v. 25, n. 3, p. 137–147, 2015.

WAHID, F. et al. MicroRNAs: synthesis, mechanism, function, and recent clinical trials. **Biochimica et biophysica acta**, v. 1803, n. 11, p. 1231–1243, nov. 2010a.

WAHID, F. et al. MicroRNAs: synthesis, mechanism, function, and recent clinical trials. **Biochimica et biophysica acta**, v. 1803, n. 11, p. 1231–43, nov. 2010b.

WANG, L. et al. Identification and characterization of maize microRNAs involved in the very early stage of seed germination. **BMC genomics**, v. 12, n. 1, p. 1–11, jan. 2011.

WATERHOUSE, P. M.; HELLENS, R. P. Plant biology: Coding in non-coding RNAs. **Nature**, v. 520, n. 7545, p. 41–42, 2015.

WEN, J. et al. Diversity of miRNAs, siRNAs, and piRNAs across 25 *Drosophila* cell lines. **Genome Research**, v. 24, n. 7, p. 1236–1250, 2014.

WINDELS, D.; VAZQUEZ, F. miR393: Integrator of environmental cues in auxin signaling? **Plant Signaling & Behavior**, v. 6, n. 11, p. 1672–1675, 2011.

WINTER, J. et al. Many roads to maturity : microRNA biogenesis pathways and their regulation. **Nature Cell Biology**, v. 11, n. 3, p. 228–234, 2009.

XU, D.; GUO, S.; DONGQIAN, X. Identification of Conserved miRNAs in *Solanum Lycopersicum* Response to Long-term RPM-treatment. **Journal of Life Sciences and Technologies**, v. 1, n. 2, p. 136–141, 2013.

XU, D.; GUO, S.; LIU, M. Identification of miRNAs involved in long-term simulated microgravity response in *Solanum lycopersicum*. **Plant Physiology and**

Biochemistry, v. 66, p. 10–19, 2013.

XU, Z. et al. Genome-wide identification of microRNAs in response to low nitrate availability in maize leaves and roots. **PLoS ONE**, v. 6, n. 11, 2011.

XUE, L.-J.; ZHANG, J.-J.; XUE, H.-W. Characterization and expression profiles of miRNAs in rice seeds. **Nucleic acids research**, v. 37, n. 3, p. 916–930, fev. 2009.

YANG, Z. et al. HEN1 recognizes 21-24 nt small RNA duplexes and deposits a methyl group onto the 2' OH of the 3' terminal nucleotide. **Nucleic Acids Research**, v. 34, n. 2, p. 667–675, 2006.

YIN, Z. et al. Identification of conserved microRNAs and their target genes in tomato (*Lycopersicon esculentum*). **Gene**, v. 414, n. 1-2, p. 60–66, 15 maio 2008.

ZHAN, S.; LUKENS, L. Identification of novel miRNAs and miRNA dependent developmental shifts of gene expression in *Arabidopsis thaliana*. **PLoS ONE**, v. 5, n. 4, 2010.

ZHANG, B. et al. Conservation and divergence of plant microRNA genes. **The Plant journal : for cell and molecular biology**, v. 46, n. 2, p. 243–259, abr. 2006a.

ZHANG, B. H. et al. Identification and characterization of new plant microRNAs using EST analysis. **Cell Research**, v. 15, n. May, p. 336–360, 2005.

ZHANG, B. H. et al. Evidence that miRNAs are different from other RNAs. **Cellular and molecular life sciences : CMLS**, v. 63, n. 2, p. 246–54, jan. 2006b.

ZHANG, B.; PAN, X.; STELLWAG, E. J. Identification of soybean microRNAs and their targets. **Planta**, v. 229, n. 1, p. 161–182, dez. 2008.

ZHANG, J. et al. Identification of conserved microRNAs and their targets from *Solanum lycopersicum* Mill. **Gene**, v. 423, n. 1, p. 1–7, 2008.

ZHANG, L. et al. A genome-wide characterization of microRNA genes in maize. **PLoS genetics**, v. 5, n. 11, p. 1–16, nov. 2009.

ZHANG, R. et al. Identification and Characterization of miRNA Transcriptome in Potato by High-Throughput Sequencing. **PLoS ONE**, v. 8, n. 2, 2013.

ZHENG, Y. et al. SeqTar: an effective method for identifying microRNA guided cleavage sites from degradome of polyadenylated transcripts in plants. **Nucleic acids research**, v. 40, n. 4, p. e28, fev. 2012.

ZHI-HAO, W. et al. Evolution Analysis About Soybean MIR166 Family. **Journal of Northeast Agricultural University (English Edition)**, v. 22, n. 1, p. 22–29, 2015.

ZHOU, L. et al. Genome-wide identification and analysis of drought-responsive microRNAs in *Oryza sativa*. **Journal of Experimental Botany**, v. 61, n. 15, p. 4157–4168, 2010.

ZHOU, M. et al. Genome-wide analysis of clustering patterns and flanking characteristics for plant microRNA genes. **The FEBS journal**, v. 278, n. 6, p. 929–

40, abr. 2011.

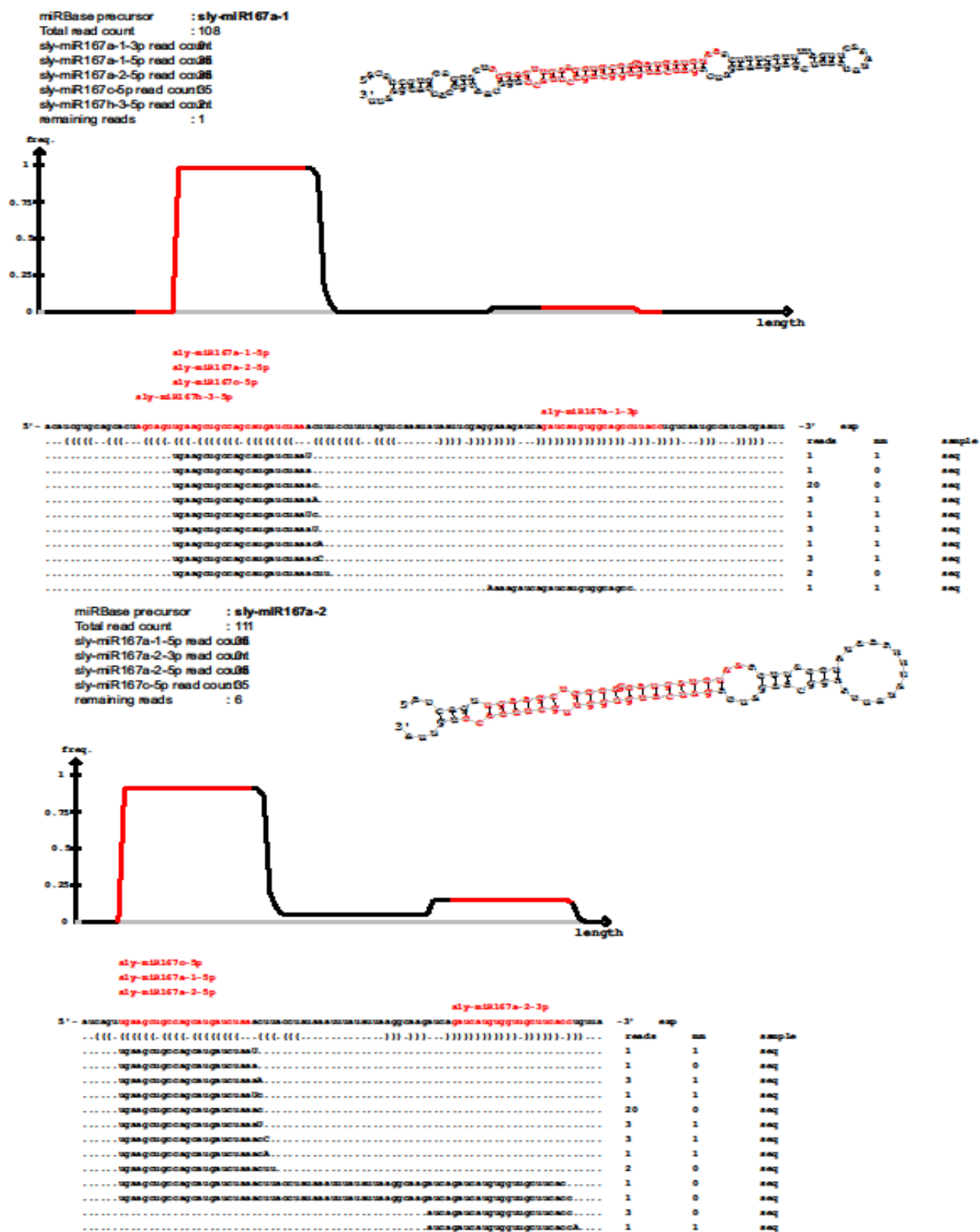
ZHOU, X. et al. Identification of cold-inducible microRNAs in plants by transcriptome analysis. **Biochimica et biophysica acta**, v. 1779, n. 11, p. 780–788, nov. 2008.

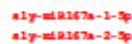
ZHU, H. et al. Arabidopsis argonaute10 specifically sequesters miR166/165 to regulate shoot apical meristem development. **Cell**, v. 145, n. 2, p. 242–256, 2011.

ZUO, J. et al. Sculpting the maturation, softening and ethylene pathway: the influences of microRNAs on tomato fruits. **BMC genomics**, v. 13, n. 1, p. 7, 2012.

ANEXOS - Arquivos Suplementares

Figura S1 – Validação e quantificação dos miRNAs maduros da família MIR167 em *S. lycopersicum* e *S. pennellii*.





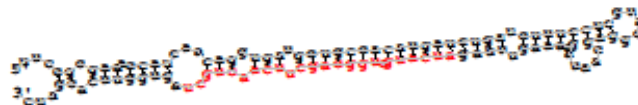
slp-miR167c-3p

sly-miR167c-3p

```

miRBase precursor      : sly-miR167h-2
Total read count       : 1
sly-miR167h-1 read count 0
sly-miR167h-2 read count 0
remaining reads        : 1

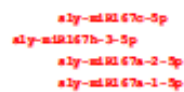
```



sly-miR167b-2

slx-miR167b-1

[illegible]




sly-a19167h-3-3p

The ORTEP diagram shows the molecular structure of 2,2,4,4-tetrachloro-1,3-dithiane-5,5-dioxide, with 50% probability displacement ellipsoids. The structure is a cyclic dithiane derivative with two sulfur atoms (S1, S2) and two oxygen atoms (O1, O2) in the ring, and two chlorine atoms (Cl1, Cl2) on each carbon atom. The structure is shown in a perspective view, with the 50% probability displacement ellipsoids drawn at the 50% probability level. The H₂O molecules are shown as small spheres, with the hydrogen atoms (H1, H2) and oxygen atoms (O3, O4) labeled. The structure is shown in a perspective view, with the 50% probability displacement ellipsoids drawn at the 50% probability level.



spe-n12167-1-3p



ape-m1R167-3-5p
ape-m1R167-1-5p

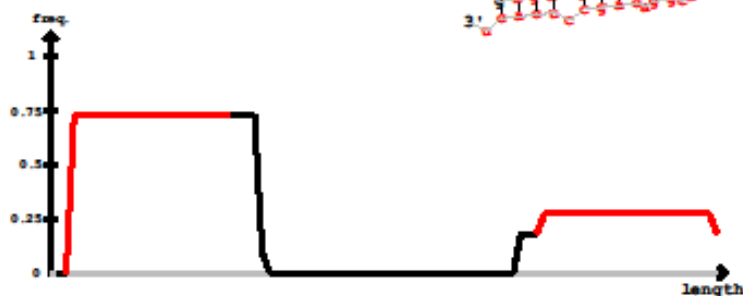
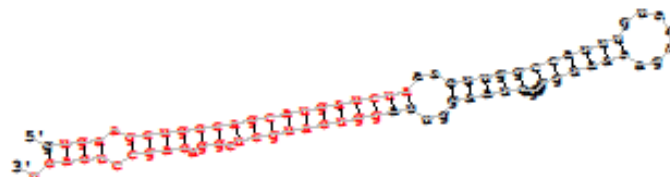
spc-mil 67-2-3p

ape-m19167-2-5p
ape-m19167a-5p

```

miRBase precursor      : spe-miR167-3
Total read count       : 35
spe-miR167-1-5p read count
spe-miR167-2-5p read count
spe-miR167-3-5p read count
spe-miR167-3-3p read count
spe-miR167a-5p read count
remaining reads        : 2

```



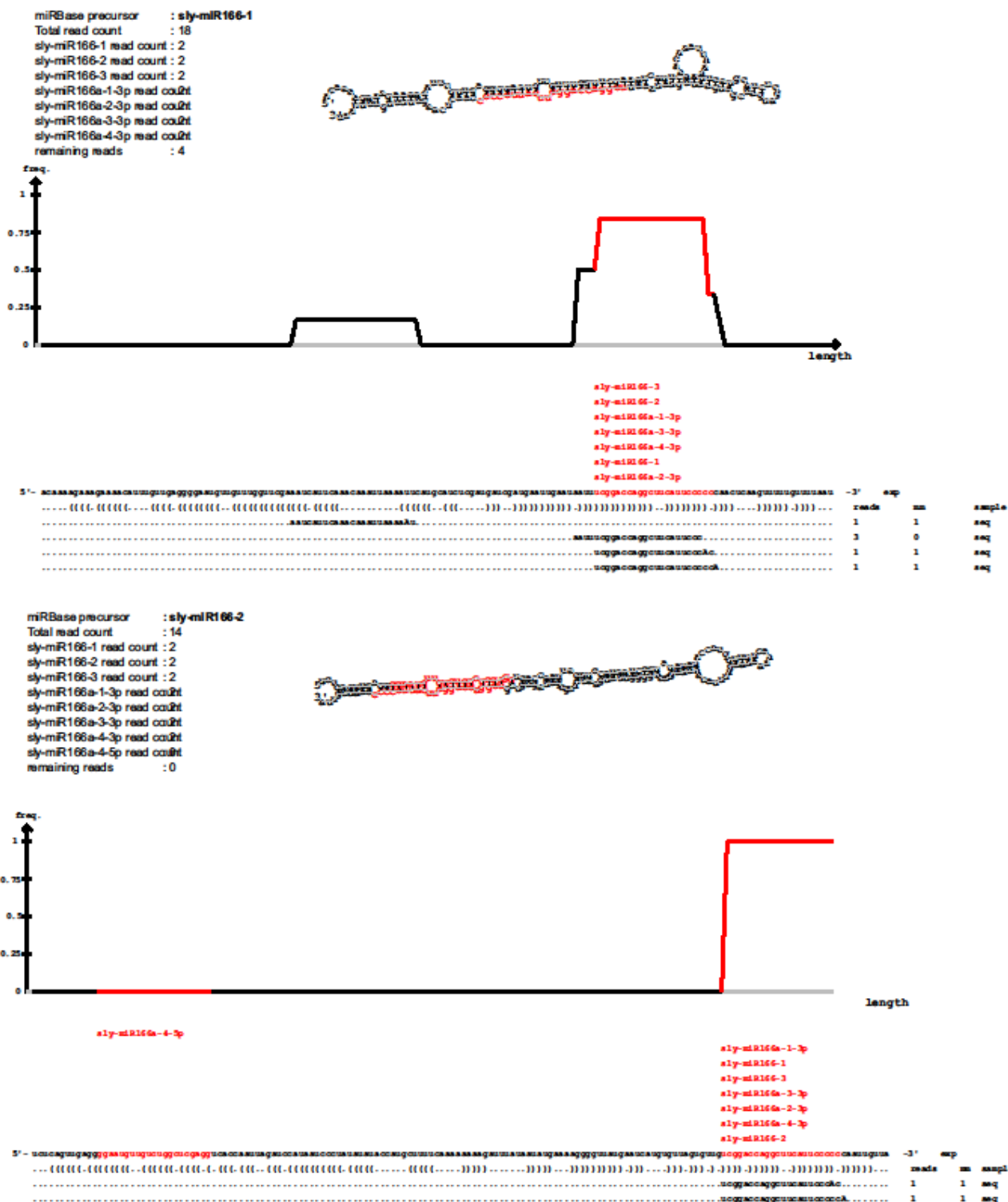
spe-miR167-3-5p
spe-miR167-1-5p

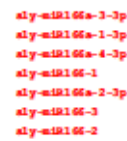
spe-m19167-3-3p

spe-miR167-2-5p
spe-miR167a-5p

[illegible]

Figura S2 – Validação e quantificação dos miRNAs maduros da família MIR166 em *S. lycopersicum* e *S. pennellii*.

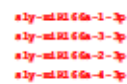
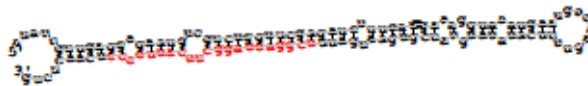




```

miRBase precursor      : sly-miR166a-1
Total read count       : 36
sly-miR166a-1-3p read count
sly-miR166a-2-3p read count
sly-miR166a-3-3p read count
sly-miR166a-4-3p read count
remaining reads        : 0

```



77



allyl-methyl-4-2p

slg-mil66a-3-3p

```

-3' exp
reads      mm      sample
0          1      seq
1          1      seq

```

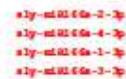


slv-miR156a-1-3p

sly-miR156a-4-3p

11-111111111-111

reads	mm	sample
8	1	seq
1	1	seq



a.ly-miDI 6 Ga-4-3p



sp+mi156a-1-3p
sp+mi156-2-3p
sp+mi156a-3-3p
sp+mi156a-2-3p
sp+mi156-1-3p

[illegible]



spn-m10.1 05-2-2p



spc-ml HL 6-6-2-2p



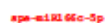
```

miRBase precursor      : spe-miR166a-3
Total read count       : 14
spe-miR166-1-3p read count
spe-miR166-2-3p read count
spe-miR166a-1-3p read count
spe-miR166a-2-3p read count
spe-miR166a-3-5p read count
spe-miR166a-3-3p read count
remaining reads        : 3

```

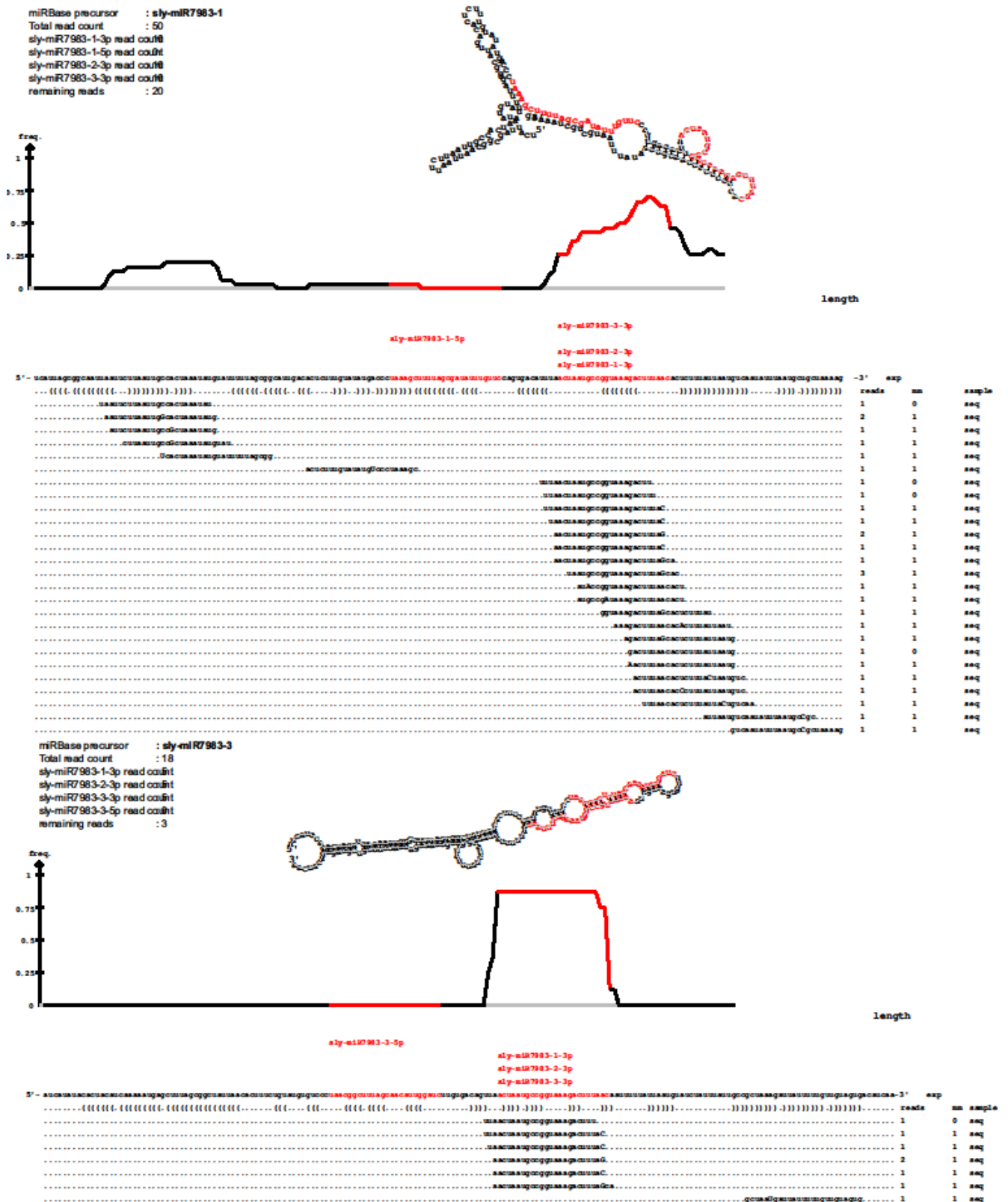


81



spe-miR156c-3p

Figura S3 – Validação e quantificação dos miRNAs maduros da família MIR7983 em *S. lycopersicum* e *S. pennellii*.



[illegible]

84

Tabela S1. Identificação das prováveis proteínas envolvidas na via de miRNAs em *Solanum lycopersicum*. Tamanho (Tam), Identidade (Ident).

Gene	ID NCBI de <i>S. lycopersicum</i>	Tam (aa)	ID NCBI de <i>Arabidopsis thaliana</i>	Tam (aa)	Blastp e-value entre <i>A. thaliana</i> e <i>S. lycopersicum</i>	Ident	Cromossomo	Banco de dados	Posição inicial	Posição final	Fita	ID/Nome
<i>SlyABH1</i>	XP_004248287	861	NP_565356.1	848	0.0	67%	Chr10	Phytozome11.0v	432555	449709	-	Solyc10g005530.2.1
<i>SlyAGO1.1</i>	NP_001266057.1	1054	NP_001185169.1	1050	0.0	78%	Chr06	Phytozome11.0v	40960724	40969540	-	Solyc06g072300.2.1
<i>SlyAGO1.2</i>	NP_001266261.2	980	NP_001185169.1	1050	0.0	78%	Chr03	Phytozome11.0v	54075745	54082377	+	Solyc03g098280.2.1
<i>SlyAGO10.1</i>	XP_004247613.1	982	NP_001190464.1	988	0.0	81%	Chr09	Phytozome11.0v	63888767	63895211	-	Solyc09g082830.2.1
<i>SlyAGO10.2</i>	NP_001266268.1	933	NP_001190464.1	988	0.0	73%	Chr12	Phytozome11.0v	1200019	1205876	-	Solyc12g006790.1.1
<i>SlyCBP20</i>	XP_004233527.1	257	NP_001078705.1	257	2e ⁻¹²⁸	75%	Chr02	Phytozome11.0v	28927635	28944665	-	Solyc02g062620.2.1
<i>SlyDDL</i>	XP_004248371.2	519	NP_188691.1	314	9e ⁻¹¹⁰	60%	Chr10	Phytozome11.0v	1003495	1011281	-	Solyc10g006390.2.1
<i>SlyDCL1</i>	NP_001289827.1	1888	NP_171612.1	1909	0.0	72%	Chr10	Phytozome11.0v	111879	125251	+	Solyc10g005130.2.1
<i>SlyEXO.1</i>	XP_010320183.1	314	NP_192634.1	314	2e ⁻¹⁵⁸	74%	Chr04	Phytozome11.0v	58031412	58032356	-	Solyc04g074450.1.1
<i>SlyEXO.2</i>	XP_010320182.1	312	NP_192634.1	314	3e ⁻¹⁵⁵	73%	Chr04	Phytozome11.0v	58015116	58016054	+	Solyc04g074410.1.1
<i>SlyEXO.3</i>	XP_004237932.1	315	NP_192634.1	314	3e ⁻¹⁵²	71%	Chr04	Phytozome11.0v	58027860	58028807	-	Solyc04g074440.1.1
<i>SlyEXO.4</i>	XP_004237930.1	309	NP_192634.1	314	2e ⁻¹¹⁰	54%	Chr04	Phytozome11.0v	58000263	58001192	-	Solyc04g074400.1.1
<i>SlyEXO.5</i>	XP_004253500.2	256	NP_192634.1	314	8e ⁻¹⁵¹	74%	Chr00	Phytozome11.0v	19006504	19007274	-	Solyc00g206460.1.1

<i>SlyEXO.6</i>	XP_004253500.2	132	NP_192634.1	314	$8e^{-151}$	74%	Chr04	Phytozome11.0v	58025424	58025822	-	Solyc04g074430.1.1
<i>SlyHEN</i>	XP_004233884.1	936	NP_001190782.1	942	0.0	49%	Chr02	Phytozome11.0v	34394425	34403033	-	Solyc02g070030.2.1
<i>SlyHST</i>	XP_004230145.1	1199	NP_187155.2	1202	0.0	65%	Chr01	Phytozome11.0v	80505430	80517080	+	Solyc01g098170.2.1
<i>SlyHYL1</i>	XP_004238005.1	433	NP_563850.1	419	$1e^{-76}$	61%	Chr04	Phytozome11.0v	58909755	58914890	+	Solyc04g076420.2.1
<i>SlySE</i>	XP_004228474.1	748	NP_565635.1	720	0.0	69%	Chr01	Phytozome11.0v	3095457	3108637	-	Solyc01g009090.2.1
<i>SlySQN.1</i>	XP_004230798.1	362	NP_565381.1	361	0.0	76%	Chr01	Phytozome11.0v	87448017	87452641	+	Solyc01g108340.2.1
<i>SlySQN.2</i>	XP_004232050.1	361	NP_565381.1	361	0.0	68%	Chr02	Phytozome11.0v	46588712	46594323	+	Solyc02g090480.2.1
<i>SlyVCS1.1</i>	XP_004244016.1	1407	NP_187938.2	1344	0.0	54%	Chr07	Phytozome11.0v	64749640	64759288	+	Solyc07g065950.2.1
<i>SlyVCS1.2</i>	XP_004248289.1	1418	NP_187938.2	1344	0.0	56%	Chr10	Phytozome11.0v	709875	721808	+	Solyc10g005920.2.1
<i>SlyXRN4</i>	NP_001233774.1	978	NP_175851.1	947	0.0	63%	Chr04	Phytozome11.0v	38313587	38355062	-	Solyc04g049010.2.1

Tabela S2. Identificação das prováveis proteínas envolvidas na via de miRNAs em *Solanum pennellii*. Tamanho (Tam), Identidade (Ident).

Gene	ID NCBI de <i>S. Pennellii</i>	Tam (aa)	ID NCBI de <i>Arabidopsis thaliana</i>	Tam (aa)	Blastp e-value entre <i>A. thaliana</i> e <i>S. pennellii</i>	Ident	Cromossomo	Banco de dados	Posição inicial	Posição final	Fita	ID/Nome
<i>SpeABH1</i>	XP_015055991.1	861	NP_565356.1	848	0.0	67%	Chr10	Sol Genomics	470562	487876	-	Sopen10g001510.1
<i>SpeAGO1.1</i>	XP_015079116.1	1053	NP_001185169.1	1050	0.0	78%	Chr06	Sol Genomics	55270253	55279596	-	Sopen06g028670
<i>SpeAGO1.2</i>	XP_015069669.1	1152	NP_001185169.1	1050	0.0	78%	Chr03	Sol Genomics	64779141	64793113	+	Sopen03g028990
<i>SpeAGO10</i>	XP_015088227.1	982	NP_001190464.1	988	0.0	81%	Chr09	Sol Genomics	80029833	80037384	-	Sopen09g031660
<i>SpeCBP20</i>	XP_015066864.1	145	NP_001078705.1	257	8e ⁻¹²⁸	77%	Chr02	Sol Genomics	37046624	37052022	-	Sopen02g013650
<i>SpeDDL</i>	XP_015056276.1	519	NP_188691.1	314	4e ⁻¹¹²	60%	Chr10	Sol Genomics	1070258	1078336	-	Sopen10g002340
<i>SpeDCL1</i>	XP_015055701.1	1914	NP_171612.1	1909	0.0	72%	Chr10	Sol Genomics	140256	153832	+	Sopen10g001150
<i>SpeEXO.1</i>	XP_015072851.1	314	NP_192634.1	314	7e ⁻¹⁵⁴	72%	Chr04	Sol Genomics	71013460	71014602	-	Sopen04g029470
<i>SpeEXO.2</i>	XP_015072850.1	315	NP_192634.1	314	8e ⁻¹⁵⁰	70%	Chr04	Sol Genomics	71008901	71009992	-	Sopen04g029460
<i>SpeEXO.3</i>	XP_015072851.1	312	NP_192634.1	314	7e ⁻¹⁵⁴	72%	Chr00	Sol Genomics	37259567	37260708	-	Sopen00g011150
<i>SpeEXO.4</i>	XP_015072850.1	279	NP_192634.1	314	8e ⁻¹⁵⁰	70%	Chr00	Sol Genomics	54682408	54683500	+	Sopen00g013730
<i>SpeEXO.5</i>	XP_015074412.1	301	NP_192634.1	314	8e ⁻¹⁴⁵	67%	Chr01	Sol Genomics	104235554	104236833	+	Sopen01g047900
<i>SpeEXO.6</i>	XP_015072852.1	309	NP_192634.1	314	1e ⁻¹³³	62%	Chr04	Sol Genomics	71016771	71028199	+	Sopen04g029480
<i>SpeEXO.7</i>	XP_015072794.1	204	NP_192634.1	314	9e ⁻¹²¹	71%	Chr04	Sol Genomics	70994941	71001956	+	Sopen04g029440

<i>SpeEXO.8</i>	XP_015072851.1	147	NP_192634.1	314	$7e^{-154}$	72%	Chr00	Sol Genomics	10184488	10185515	-	Sopen00g004110
<i>SpeEXO.9</i>	XP_015056292.1	344	NP_192634.1	314	$6e^{-173}$	72%	Chr10	Sol Genomics	74630529	74631994	-	Sopen10g027040
<i>SpeEXO.10</i>	XP_015067414.1	349	NP_192634.1	314	$2e^{-180}$	77%	Chr03	Sol Genomics	54987335	54988714	+	Sopen03g023370
<i>SpeEXO.11</i>	XP_015064271.1	338	NP_192634.1	314	$3e^{-130}$	64%	Chr02	Sol Genomics	42023523	42024843	-	Sopen02g017980
<i>SpeEXO.12</i>	XP_015077362.1	348	NP_192634.1	314	$5e^{-172}$	75%	Chr06	Sol Genomics	29018255	29019378	-	Sopen06g011130
<i>SpeEXO.13</i>	XP_015072794.1	129	NP_192634.1	314	$9e^{-121}$	71%	Chr07	Sol Genomics	8917070	8940973	+	Sopen07g006860
<i>SpeEXO.14</i>	XP_015072851.1	72	NP_192634.1	314	$7e^{-154}$	72%	Chr04	Sol Genomics	71005727	71006012	-	Sopen04g029450
<i>SpeHEN</i>	XP_015066899.1	936	NP_001190782.1	942	0.0	49%	Chr02	Sol Genomics	43139412	43149375	-	Sopen02g019190
<i>SpeHST.1</i>	XP_015062207.1	817	NP_187155.2	1202	0.0	65%	Chr01	Sol Genomics	990095019	99104849	+	Sopen01g041740
<i>SpeHST.2</i>	XP_015062207.1	646	NP_187155.2	1202	0.0	65%	Chr00	Sol Genomics	17957307	17964551	+	Sopen00g006580
<i>SpeHST.3</i>	XP_015062207.1	296	NP_187155.2	1202	0.0	65%	Chr01	Sol Genomics	99104899	99107409	+	Sopen01g041750
<i>SpeHST.4</i>	XP_015062207.1	212	NP_187155.2	1202	0.0	65%	Chr00	Sol Genomics	17964627	17965611	+	Sopen00g006590
<i>SpeHYL1</i>	XP_015071372.1	406	NP_563850.1	419	$4e^{-78}$	62%	Chr04	Sol Genomics	71813898	71819068	+	Sopen04g030180
<i>SpeSE</i>	XP_015060466.1	749	NP_565635.1	720	0.0	69%	Chr01	Sol Genomics	3437801	3451620	-	Sopen01g004580
<i>SpeSQN.1</i>	XP_015067254.1	362	NP_565381.1	361	0.0	77%	Chr01	Sol Genomics	106469253	106473850	+	Sopen01g050560
<i>SpeSQN.2</i>	XP_015067196.1	361	NP_565381.1	361	0.0	69%	Chr02	Sol Genomics	56319127	56325887	+	Sopen02g035160
<i>SpeVCS.1</i>	XP_015082036.1	1405	NP_187938.2	1344	0.0	54%	Chr07	Sol Genomics	78737896	78747556	+	Sopen07g034150
<i>SpeVCS.2</i>	XP_015055595.1	1418	NP_187938.2	1344	0.0	55%	Chr10	Sol Genomics	749356	761206	+	Sopen10g001880

SpeXRN4	XP_015073528.1	978	NP_175851.1	947	0.0	63%	Chr04	Sol Genomics	44928340	44965197	-	Sopen04g018450.1
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Tabela S3 – Distribuição dos domínios conservados e suas localizações nas prováveis proteínas AGO identificadas em *Solanum lycopersicum* (Sly), *Solanum pennellii* (Spe) e seus ortólogos.

Família	Proteína	ID	Domínio conservado	ID do domínio	Início e fim	E-value
AGO1	SlyAGO1.1	Solyc06g072300.2.1	Gly-rich_Ago1	PF12764.4	70 – 174	1.7e ⁻²⁷
			ArgoN	PF16486.2	185 – 328	3.3e ⁻²⁴
			ArgoL1	PF08699.7	338 – 388	1.1e ⁻²³
			PAZ	PF02170.19	394 – 520	3.3e ⁻²⁸
			ArgoL2	PF16488.2	531 – 576	7.6e ⁻¹⁶
			ArgoMid	PF16487.2	587 – 661	8e ⁻⁰⁸
			Piwi	PF02171.14	681 – 1000	8.5e ⁻¹¹³
	SlyAGO1.2	Solyc03g098280.2.1	Gly-rich_Ago1	PF12764.4	18 – 100	3.5e ⁻⁰⁹
			ArgoN	PF16486.2	111 – 254	9e ⁻²⁴
			ArgoL1	PF08699.7	264 – 314	5.4e ⁻²³
			PAZ	PF02170.19	320 – 446	5.2e ⁻²⁹
			ArgoL2	PF16488.2	457 – 502	4.8e ⁻¹⁵
			ArgoMid	PF16487.2	513 – 587	8.6e ⁻⁰⁸

			Piwi	PF02171.14	607 – 926	$1.1e^{-112}$
	SpeAGO1.1	Sopen06g028670.1	Gly-rich_Ago1	PF12764.4	69 – 173	$2.7e^{-27}$
			ArgoN	PF16486.2	193 – 327	$8.4e^{-33}$
			ArgoL1	PF08699.7	337 – 387	$1.4e^{-23}$
			PAZ	PF02170.19	393 – 518	$5e^{-28}$
			ArgoL2	PF16488.2	529- 575	$2e^{-16}$
			ArgoMid	PF16487.2	586 – 660	$8.1e^{-08}$
			Piwi	PF02171.14	680 – 999	$8.5e^{-113}$
	SpeAGO1.2	Sopen03g028990.1	Gly-rich_Ago1	PF12764.4	160 - 272	$1.8e^{-26}$
			ArgoN	PF16486.2	292 – 426	$3e^{-32}$
			ArgoL1	PF08699.7	436 – 486	$8.6e^{-23}$
			PAZ	PF02170.19	492 – 617	$1.1e^{-28}$
			ArgoL2	PF16488.2	685 – 759	$1.9e^{-15}$
			ArgoMid	PF16487.2	685 – 759	$1.1e^{-07}$
			Piwi	PF02171.14	779 – 1098	$1.7e^{-112}$
	Ortólogo em <i>Glycine max</i>	XP_003548311.1	Gly-rich_Ago1	PF12764.4	69 – 169	$1.6e^{-10}$
			ArgoN	PF16486.2	196 – 330	$3.1e^{-32}$
			ArgoL1	PF08699.7	340 – 390	$1.4e^{-23}$

			PAZ	PF02170.19	395 – 523	$9e^{-29}$
			ArgoL2	PF16488.2	532 – 578	$4e^{-16}$
			ArgoMid	PF16487.2	589 – 664	$4.7e^{-08}$
			Piwi	PF02171.14	681 – 1000	$9.2e^{-112}$
	Ortólogo em <i>Phasolus vulgaris</i>	XP_007152592.1	Gly-rich_Ago1	PF12764.4	77 – 181	$2e^{-10}$
			ArgoN	PF16486.2	204 – 339	$3.6e^{-32}$
			ArgoL1	PF08699.7	349 – 399	$1.4e^{-23}$
			PAZ	PF02170.19	404 – 530	$2.9e^{-28}$
			ArgoL2	PF16488.2	541 – 587	$2.6e^{-15}$
			ArgoMid	PF16487.2	598 – 673	$5.7e^{-08}$
			Piwi	PF02171.14	690 – 1009	$5.8e^{-112}$
	Ortólogo em <i>Solanum tuberosum</i>	XP_006347371.1	Gly-rich_Ago1	PF12764.4	70 – 174	$9.7e^{-27}$
			ArgoN	PF16486.2	194 – 328	$8.4e^{-33}$
			ArgoL1	PF08699.7	338 – 388	$1.4e^{-23}$
			PAZ	PF02170.19	394 – 519	$5e^{-28}$
			ArgoL2	PF16488.2	530 – 576	$4.1e^{-16}$
			ArgoMid	PF16487.2	587 – 661	$8.1e^{-08}$
			Piwi	PF02171.14	681 – 1000	$6.8e^{-113}$

	SlyAGO2.1	Solyc02g069260.2.1	ArgoN	PF16486.2	206 – 352	$1.9e^{-18}$
			ArgoL1	PF08699.7	362 – 409	$1.8e^{-09}$
			PAZ	PF02170.19	417 – 539	$2.6e^{-19}$
			ArgoL2	PF16488.2	558 – 602	$3.7e^{-08}$
			Piwi	PF02171.14	710 - 1001	$2e^{-90}$
	SlyAGO2.2	Solyc02g069270.2.1	ArgoN	PF16486.2	169 – 294	$4.7e^{-15}$
			ArgoL1	PF08699.7	305 – 351	$5.7e^{-09}$
			PAZ	PF02170.19	361 – 480	$4.3e^{-20}$
			ArgoL2	PF16488.2	518 – 543	$4.1e^{-08}$
			Piwi	PF02171.14	648 - 939	$8.2e^{-87}$
	SlyAGO2.3	Solyc02g069280.2.1	ArgoN	PF16486.2	168 – 314	$7.2e^{-15}$
			ArgoL1	PF08699.7	324 – 366	$1.9e^{-08}$
			PAZ	PF02170.19	396 – 498	$5.8e^{-16}$
			Piwi	PF02171.14	659 - 950	$3.8e^{-85}$
	SpeAGO2.1	Sopen02g018420.1	ArgoN	PF16486.2	214 – 351	$6.8e^{-21}$
			ArgoL1	PF08699.7	361 – 408	$2.1e^{-09}$
			PAZ	PF02170.19	416 – 538	$6.3e^{-19}$
			ArgoL2	PF16488.2	557 – 601	$3.8e^{-08}$

AGO2			Piwi	PF02171.14	709 - 1000	$4.6e^{-90}$
	SpeAGO2.2	Sopen02g018430.1	ArgoN	PF16486.2	184 – 321	$4.1e^{-20}$
			ArgoL1	PF08699.7	331 – 376	$6.1e^{-09}$
			PAZ	PF02170.19	385 – 506	$4.1e^{-20}$
			ArgoL2	PF16488.2	524 – 569	$3.2e^{-09}$
			Piwi	PF02171.14	674 - 965	$1.4e^{-87}$
	SpeAGO2.3	Sopen02g018440.1	ArgoN	PF16486.2	178 – 314	$1e^{-16}$
			ArgoL1	PF08699.7	324 – 366	$2.2e^{-08}$
			PAZ	PF02170.19	379 – 498	$4.3e^{-16}$
			Piwi	PF02171.14	657 - 948	$2.7e^{-85}$
	Ortólogo em <i>Glycine max</i>	XP_003556681.1	ArgoN	PF16486.2	119 – 253	$3e^{-18}$
			ArgoL1	PF08699.7	265 – 315	$8.2e^{-09}$
			PAZ	PF02170.19	321 – 441	$1.9e^{-18}$
			ArgoL2	PF16488.2	475 – 505	$1.3e^{-07}$
			Piwi	PF02171.14	618 - 914	$8.1e^{-86}$
	Ortólogo em <i>Phasolus vulgaris</i>	XP_007157808.1	ArgoN	PF16486.2	144 – 274	$1.9e^{-17}$
			ArgoL1	PF08699.7	286 – 330	$5.5e^{-06}$
			PAZ	PF02170.19	349 – 459	$2.5e^{-16}$

	Ortólogo em <i>Solanum tuberosum</i>	XP_006353071.1	ArgoL2	PF16488.2	481 – 527	$3.3e^{-07}$
			Piwi	PF02171.14	637 - 928	$9.6e^{-86}$
			ArgoN	PF16486.2	224 – 361	$5e^{-21}$
			ArgoL1	PF08699.7	371 – 418	$3.8e^{-09}$
			PAZ	PF02170.19	426 – 548	$4e^{-19}$
			ArgoL2	PF16488.2	566 – 611	$2e^{-08}$
			Piwi	PF02171.14	719 - 1010	$1.7e^{-90}$
	SlyAGO4.1	Solyc06g073540.2.1	ArgoN	PF16486.2	44 – 217	$1.7e^{-24}$
			ArgoL1	PF08699.7	229 – 277	$2.6e^{-16}$
			PAZ	PF02170.19	283 – 413	$4.2e^{-28}$
			ArgoL2	PF16488.2	424 – 468	$5.1e^{-12}$
			ArgoMid	PF16487.2	478 – 556	$1.5e^{-07}$
			Piwi	PF02171.14	567 - 873	$8.2e^{-101}$
	SlyAGO4.2	Solyc01g008960.2.1	ArgoN	PF16486.2	45 – 214	$8.6e^{-25}$
			ArgoL1	PF08699.7	226 – 274	$1.1e^{-15}$
			PAZ	PF02170.19	280 – 410	$2.2e^{-27}$
			ArgoL2	PF16488.2	421 – 465	$1.4e^{-12}$
			ArgoMid	PF16487.2	473 – 524	$2.9e^{-06}$

			Piwi	PF02171.14	563 - 869	$1.2e^{-101}$
	SlyAGO4.3	Solyc06g073530.1.1	ArgoN	PF16486.2	44 – 208	$2.9e^{-23}$
			ArgoL1	PF08699.7	220 – 269	$7.4e^{-16}$
			PAZ	PF02170.19	274 – 404	$4e^{-27}$
			ArgoL2	PF16488.2	415 – 459	$4.5e^{-99}$
			Piwi	PF02171.14	558 – 864	$3e^{-99}$
	SlyAGO4.4	Solyc01g096750.1.1	ArgoN	PF16486.2	20 – 186	$4.3e^{-25}$
			ArgoL1	PF08699.7	198 – 247	$7.3e^{-16}$
			PAZ	PF02170.19	252 – 380	$1.3e^{-25}$
			ArgoL2	PF16488.2	391 – 435	$1.1e^{-10}$
			Piwi	PF02171.14	535 - 842	$1.7e^{-102}$
	SlyAGO4.5	Solyc03g111760.2.1	ArgoN	PF16486.2	37 – 205	$3.2e^{-14}$
			ArgoL1	PF08699.7	227 – 274	$7.9e^{-10}$
			PAZ	PF02170.19	282 – 408	$2.7e^{-19}$
			ArgoL2	PF16488.2	426 – 465	$6.3e^{-10}$
			Piwi	PF02171.14	565 - 895	$7.4e^{-72}$
	SpeAGO4.1	Sopen06g029900.1	ArgoN	PF16486.2	52 – 217	$1.8e^{-30}$
			ArgoL1	PF08699.7	229 – 277	$3e^{-16}$

AGO4			PAZ	PF02170.19	283 – 413	$6.8e^{-28}$
			ArgoL2	PF16488.2	423 – 468	$2.7e^{-13}$
			ArgoMid	PF16487.2	478 – 556	$1.5e^{-07}$
			Piwi	PF02171.14	567 - 873	$1.3e^{-100}$
	SpeAGO4.2	Sopen01g004450.1	ArgoN	PF16486.2	53 – 214	$1.2e^{-30}$
			ArgoL1	PF08699.7	226 – 274	$1.3e^{-15}$
			PAZ	PF02170.19	280 – 410	$6.2e^{-27}$
			ArgoL2	PF16488.2	420 – 465	$1.1e^{-14}$
			ArgoMid	PF16487.2	473 – 524	$2.9e^{-06}$
			Piwi	PF02171.14	563 - 869	$1.2e^{-101}$
	SpeAGO4.3	Sopen06g029890.1	ArgoN	PF16486.2	53 – 208	$2.3e^{-30}$
			ArgoL1	PF08699.7	220 – 268	$6.9e^{-17}$
			PAZ	PF02170.19	274 – 404	$2.3e^{-26}$
			ArgoL2	PF16488.2	414 – 459	$2.4e^{-09}$
			Piwi	PF02171.14	558 - 864	$1.4e^{-100}$
	SpeAGO4.4	Sopen01g040460.1	ArgoN	PF16486.2	28 – 186	$1.8e^{-29}$
			ArgoL1	PF08699.7	198 – 246	$8e^{-16}$
			PAZ	PF02170.19	252 – 380	$2.5e^{-26}$

			ArgoL2	PF16488.2	390 – 435	$8.5e^{-13}$
			Piwi	PF02171.14	535 – 842	$9.1e^{-103}$
	SpeAGO4.5	Sopen03g030870.3	ArgoN	PF16486.2	56 – 216	$2.3e^{-14}$
			ArgoL1	PF08699.7	229 – 276	$2.8e^{-09}$
			PAZ	PF02170.19	283 – 396	$6.1e^{-13}$
			ArgoL2	PF16488.2	417 - 455	$2.2e^{-10}$
			Piwi	PF02171.14	555 – 860	$3.3e^{-78}$
	SpeAGO4.6	Sopen03g030870.4	ArgoN	PF16486.2	56 – 216	$1.7e^{-14}$
			ArgoL1	PF08699.7	229 – 276	$2.2e^{-09}$
			PAZ	PF02170.19	283 – 396	$4.6e^{-13}$
			ArgoL2	PF16488.2	417 – 455	$1.8e^{-10}$
			Piwi	PF02171.14	555 - 860	$2.2e^{-78}$
	SpeAGO4.7	Sopen03g030870.5	ArgoN	PF16486.2	56 – 216	$1.7e^{-14}$
			ArgoL1	PF08699.7	229 – 276	$2.3e^{-09}$
			PAZ	PF02170.19	283 – 396	$4.7e^{-13}$
			ArgoL2	PF16488.2	417 – 455	$1.8e^{-10}$
			Piwi	PF02171.14	555 - 860	$2.3e^{-78}$
	Ortólogo em <i>Glycine</i>	XP_003545462.1	ArgoN	PF16486.2	54 – 214	$3.4e^{-28}$

	max		ArgoL1	PF08699.7	226 – 274	$4.1e^{-16}$
			PAZ	PF02170.19	280 – 407	$3.7e^{-24}$
			ArgoL2	PF16488.2	417 – 463	$1.7e^{-13}$
			Piwi	PF02171.14	561 - 868	$2.3e^{-104}$
	Ortólogo em <i>Phasolus vulgaris</i>	XP_007141565.1	ArgoN	PF16486.2	54 – 215	$1.6e^{-28}$
			ArgoL1	PF08699.7	227 – 274	$4.3e^{-16}$
			PAZ	PF02170.19	281 – 409	$1.2e^{-25}$
			ArgoL2	PF16488.2	419 – 465	$2e^{-12}$
			ArgoMid	PF16487.2	472 – 525	$2e^{-06}$
			Piwi	PF02171.14	563 - 870	$4.9e^{-103}$
	Ortólogo em <i>Solanum tuberosum</i>	XP_006347268.1	ArgoN	PF16486.2	52 – 217	$1.9e^{-30}$
			ArgoL1	PF08699.7	229 – 277	$3e^{-16}$
			PAZ	PF02170.19	283 – 413	$3e^{-28}$
			ArgoL2	PF16488.2	423 – 468	$3.3e^{-14}$
			ArgoMid	PF16487.2	478 – 556	$3.2e^{-07}$
			Piwi	PF02171.14	567 – 873	$5.8e^{-101}$
	SlyAGO5	Solyc06g074730.2.1	ArgoN	PF16486.2	162 – 302	$2.2e^{-27}$
			ArgoL1	PF08699.7	313 – 363	$8.6e^{-20}$

			PAZ	PF02170.19	382 – 494	$7.8e^{-24}$
			ArgoL2	PF16488.2	504 – 549	$1.6e^{-11}$
			Piwi	PF02171.14	655 - 973	$2.2e^{-101}$
	SpeAGO5	Sopen06g031140.1	ArgoN	PF16486.2	170 – 302	$2.9e^{-31}$
			ArgoL1	PF08699.7	313 – 363	$9.1e^{-20}$
			PAZ	PF02170.19	382 – 494	$6.7e^{-25}$
			ArgoL2	PF16488.2	503 – 549	$6.9e^{-12}$
			Piwi	PF02171.14	655 - 973	$6.4e^{-102}$
	Ortólogo em <i>Glycine max</i>	XP_006592296.1	ArgoN	PF16486.2	116 – 257	$7.9e^{-32}$
			ArgoL1	PF08699.7	268 – 317	$5.1e^{-22}$
			PAZ	PF02170.19	323 – 448	$1.8e^{-25}$
			ArgoL2	PF16488.2	457 – 503	$2.6e^{-11}$
			ArgoMid	PF16487.2	514 – 592	$2.9e^{-08}$
			Piwi	PF02171.14	607 - 925	$1.2e^{-104}$
	Ortólogo em <i>Phasolus vulgaris</i>	XP_007132360.1	ArgoN	PF16486.2	151 – 293	$2.7e^{-35}$
			ArgoL1	PF08699.7	304 – 353	$9.6e^{-22}$
			PAZ	PF02170.19	361 – 482	$9.1e^{-25}$
			ArgoL2	PF16488.2	493 – 539	$2.4e^{-11}$

			Piwi	PF02171.14	639 - 957	$2.9e^{-104}$
	Ortólogo em <i>Solanum tuberosum</i>	XP_006347212.1	ArgoN	PF16486.2	178 – 310	$8.9e^{-31}$
			ArgoL1	PF08699.7	321 – 371	$7.7e^{-20}$
			PAZ	PF02170.19	384 – 502	$6.6e^{-23}$
			ArgoL2	PF16488.2	511 – 557	$1.8e^{-11}$
			ArgoMid	PF16487.2	568 – 642	$1.0e^{-06}$
			Piwi	PF02171.14	663 - 981	$1.3e^{-102}$
AGO6	SlyAGO6	Solyc07g049500.2.1	ArgoN	PF16486.2	40 – 206	$4.1e^{-24}$
			ArgoL1	PF08699.7	218 – 264	$2.9e^{-14}$
			PAZ	PF02170.19	272 – 403	$3.4e^{-26}$
			ArgoL2	PF16488.2	415 – 458	$1.6e^{-09}$
			Piwi	PF02171.14	557 - 862	$2.9e^{-97}$
	SpeAGO6	Sopen07g024850.1	ArgoN	PF16486.2	48 – 206	$7.7e^{-28}$
			ArgoL1	PF08699.7	218 – 265	$3e^{-15}$
			PAZ	PF02170.19	272 – 403	$3.9e^{-26}$
			ArgoL2	PF16488.2	413 – 458	$5.3e^{-12}$
			Piwi	PF02171.14	557 – 862	$2.8e^{-97}$
	Ortólogo em <i>Glycine</i>	XP_003541581.2	ArgoN	PF16486.2	66 – 225	$1.2e^{-25}$

	max		ArgoL1	PF08699.7	237 – 285	1.2e ⁻¹⁴
			PAZ	PF02170.19	291 – 421	6.2e ⁻²⁸
			ArgoL2	PF16488.2	436 – 475	6.6e ⁻⁰⁸
			Piwi	PF02171.14	573 - 880	1.7e ⁻⁹⁵
	Ortólogo em <i>Medicago truncatula</i>	XP_003601587.1	ArgoN	PF16486.2	50 – 246	9.3e ⁻²³
			ArgoL1	PF08699.7	258 – 306	2.8e ⁻¹⁴
			PAZ	PF02170.19	312 – 442	1.1e ⁻²⁴
			ArgoL2	PF16488.2	457 – 497	5.8e ⁻¹¹
			ArgoMid	PF16487.2	506 – 557	8.9e ⁻⁰⁷
			Piwi	PF02171.14	595 - 910	1.5e ⁻⁹⁶
AGO7	SlyAGO7	Solyc01g010970.2.1	ArgoN	PF16486.2	138 – 295	6.1e ⁻¹⁹
			ArgoL1	PF08699.7	306 – 355	7.2e ⁻¹⁸
			PAZ	PF02170.19	367 – 489	2.7e ⁻²¹
			ArgoL2	PF16488.2	515 – 545	2.6e ⁻⁰⁸
			Piwi	PF02171.14	653 - 960	2.6e ⁻⁸⁹
	SpeAGO7	Sopen01g006840.1	ArgoN	PF16486.2	147 – 293	7.5e ⁻²²
			ArgoL1	PF08699.7	304 – 352	8.4e ⁻¹⁸
			PAZ	PF02170.19	365 – 487	3.5e ⁻²¹

			ArgoL2	PF16488.2	497 – 543	$2.1e^{-07}$
			Piwi	PF02171.14	651 - 958	$3.6e^{-89}$
	Ortólogo em <i>Glycine max</i>	_XP_006574922.1	ArgoN	PF16486.2	189 – 335	$8e^{-27}$
			ArgoL1	PF08699.7	345 – 394	$9.6e^{-19}$
			PAZ	PF02170.19	408 – 529	$5.6e^{-22}$
			Piwi	PF02171.14	692 - 1001	$5.4e^{-91}$
	Ortólogo em <i>Phasolus vulgaris</i>	XP_007153570.1	ArgoN	PF16486.2	45 – 191	$2e^{-26}$
			ArgoL1	PF08699.7	201 – 250	$8e^{-19}$
			PAZ	PF02170.19	264 – 385	$1.4e^{-22}$
			Piwi	PF02171.14	549 - 856	$6.1e^{-92}$
	Ortólogo em <i>Solanum tuberosum</i>	XP_006365299.1	ArgoN	PF16486.2	150 – 297	$1.5e^{-22}$
			ArgoL1	PF08699.7	308 – 356	$9.9e^{-18}$
			PAZ	PF02170.19	369 – 491	$2.3e^{-21}$
			ArgoL2	PF16488.2	501 – 547	$2.7e^{-07}$
			Piwi	PF02171.14	655 - 962	$1.3e^{-88}$
AGO10	SlyAGO10.1	Soly09g082830.2.1	ArgoN	PF16486.2	127 – 270	$1.8e^{-23}$
			ArgoL1	PF08699.7	280 – 330	$1.4e^{-22}$
			PAZ	PF02170.19	342 – 462	$1.2e^{-27}$

			ArgoL2	PF16488.2	473 – 518	$4.6e^{-16}$
			ArgoMid	PF16487.2	529 – 606	$2.4e^{-13}$
			Piwi	PF02171.14	621 – 940	$2.4e^{-114}$
	SlyAGO10.2	Solyc12g006790.1.1	ArgoN	PF16486.2	82 – 224	$3.7e^{-18}$
			ArgoL1	PF08699.7	234 – 284	$1.1e^{-21}$
			PAZ	PF02170.19	302 – 416	$1.3e^{-25}$
			ArgoL2	PF16488.2	429 – 472	$6.7e^{-15}$
			ArgoMid	PF16487.2	483 – 561	$2.8e^{-11}$
			Piwi	PF02171.14	575 – 891	$3.9e^{-109}$
	SpeAGO10	Sopen09g031660.1	ArgoN	PF16486.2	136 – 270	$4.5e^{-30}$
			ArgoL1	PF08699.7	280 – 330	$1.7e^{-22}$
			PAZ	PF02170.19	343 – 462	$1.8e^{-27}$
			ArgoL2	PF16488.2	472 – 518	$1e^{-15}$
			ArgoMid	PF16487.2	529 – 606	$2e^{-13}$
			Piwi	PF02171.14	621 – 940	$2.4e^{-114}$
	Ortólogo em <i>Glycine max</i>	XP_003528280.1	ArgoN	PF16486.2	69 – 202	$6.7e^{-26}$
			ArgoL1	PF08699.7	212 – 262	$1.1e^{-20}$
			PAZ	PF02170.19	268 – 394	$2.8e^{-25}$

			ArgoL2	PF16488.2	406 – 450	$2.6e^{-15}$
			ArgoMid	PF16487.2	461 – 538	$2.2e^{-12}$
			Piwi	PF02171.14	553 - 872	$5.4e^{-109}$
	Ortólogo em <i>Phasolus vulgaris</i>	XP_007138327.1	ArgoN	PF16486.2	68 – 201	$4.3e^{-25}$
			ArgoL1	PF08699.7	211 – 261	$1.1e^{-20}$
			PAZ	PF02170.19	267 – 393	$4.3e^{-26}$
			ArgoL2	PF16488.2	405 – 449	$7.1e^{-17}$
			ArgoMid	PF16487.2	460 – 537	$1.9e^{-12}$
			Piwi	PF02171.14	552 - 871	$3.5e^{-110}$
	Ortólogo em <i>Solanum tuberosum</i>	XP_006363457.1	ArgoN	PF16486.2	136 – 270	$4.5e^{-30}$
			ArgoL1	PF08699.7	280 - 330	$1.7e^{-22}$
			PAZ	PF02170.19	343 – 462	$1.8e^{-27}$
			ArgoL2	PF16488.2	472 – 518	$1e^{-15}$
			ArgoMid	PF16487.2	529 – 606	$2e^{-13}$
			Piwi	PF02171.14	621 - 940	$2.4e^{-114}$

Tabela S4 – Distribuição dos domínios conservados e suas localizações nas prováveis proteínas DCL identificadas em *Solanum lycopersicum* (Sly), *Solanum pennellii* (Spe) e seus ortólogos.

Família	Proteína	ID	Domínio conservado	ID do domínio	Início e fim	E-value
DCL1	SlyDCL1	Solyc10g005130.2.1	ResIII	PF04851.12	259 - 420	2.5e ⁻¹⁴
			Helicase C	PF00271.28	656 – 773	1.7e ⁻¹⁷
			Dicer dimer	PF03368.11	848 – 936	1e ⁻²¹
			PAZ	PF02170.19	1214 – 1349	5e ⁻²²
			Ribonuclease 3	PF00636.23	1386 – 1468	2.8e ⁻²¹
			Ribonuclease 3	PF00636.23	1586 – 1699	2.6e ⁻²⁴
			dsrm	PF00035.23	1726 – 1784	7.2e ⁻⁰⁵
			DND1 DSRM	PF14709.4	1811 – 1883	7.8e ⁻¹⁴
	SpeDCL1	Sopen10g001150.1	ResIII	PF04851.12	256 - 420	2.2e ⁻¹⁴
			Helicase C	PF00271.28	656 – 773	9.2e ⁻¹⁷
			Dicer dimer	PF03368.11	848 – 936	7.1e ⁻²⁴
			PAZ	PF02170.19	1214 – 1349	4.9e ⁻²²
			Ribonuclease 3	PF00636.23	1386 – 1534	2.5e ⁻²⁹
			Ribonuclease 3	PF00636.23	1612 – 1725	2.7e ⁻²⁴
			dsrm	PF00035.23	1752 – 1810	7.3e ⁻⁰⁵

			DND1 DSRM	PF14709.4	1837 – 1909	$7.9e^{-14}$
	Ortólogo em <i>Vitis vinífera</i>	XP_002268369.1	ResIII	PF04851.12	318 – 478	$1.3e^{-13}$
			Helicase C	PF00271.28	715 – 832	$9.9e^{-17}$
			Dicer dimer	PF03368.11	907 – 995	$6.2e^{-24}$
			PAZ	PF02170.19	1268 – 1406	$2.7e^{-24}$
			Ribonuclease 3	PF00636.23	1443 – 1591	$2.3e^{-28}$
			Ribonuclease 3	PF00636.23	1667 – 1780	$1.6e^{-24}$
			DND1 DSRM	PF14709.4	1893 - 1966	$5.4e^{-14}$
	Ortólogo em <i>Solanum tuberosum</i>	XP_006352611.1	ResIII	PF04851.12	260 – 420	$3.7e^{-14}$
			Helicase C	PF00271.28	656 – 773	$9.2e^{-17}$
			Dicer dimer	PF03368.11	848 – 936	$7.4e^{-24}$
			PAZ	PF02170.19	1214 – 1349	$4.9e^{-22}$
			Ribonuclease 3	PF00636.23	1386 – 1534	$2.5e^{-29}$
			Ribonuclease 3	PF00636.23	1612 – 1725	$1.4e^{-24}$
			dsrm	PF00035.23	1752 – 1810	$1.3e^{-04}$
			DND1 DSRM	PF14709.4	1837 - 1909	$7.9e^{-14}$
	Ortólogo em <i>Theobroma cacao</i>	XP_007051386.1	ResIII	PF04851.12	356 – 516	$5.2e^{-13}$
			Helicase C	PF00271.28	753 – 870	$5.4e^{-17}$

DCL2			Dicer dimer	PF03368.11	945 – 1033	$8e^{-24}$
			PAZ	PF02170.19	1312 – 1443	$9.9e^{-25}$
			Ribonuclease 3	PF00636.23	1480 – 1627	$1.8e^{-28}$
			Ribonuclease 3	PF00636.23	1703 – 1816	$3.3e^{-24}$
			dsrm	PF00035.23	1843 – 1903	$2.2e^{-04}$
			DND1 DSRM	PF14709.4	1929 - 2002	$1.1e^{-13}$
	SlyDCL2.1	Solyc11g008520.1.1	DEAD	PF00270.26	26 – 192	$1.9e^{-13}$
			Helicase C	PF00271.28	375 – 492	$2.9e^{-18}$
			Dicer dimer	PF03368.11	588 – 668	$2e^{-19}$
			PAZ	PF02170.19	863 – 989	$2.2e^{-13}$
			Ribonuclease 3	PF00636.23	1031 – 1149	$2.8e^{-22}$
			Ribonuclease 3	PF00636.23	1221 – 1330	$2e^{-21}$
	SlyDCL2.2	Solyc06g048960.2.1	DEAD	PF00270.26	22 -187	$7.2e^{-13}$
			Helicase C	PF00271.28	372 – 487	$1.4e^{-17}$
			Dicer dimer	PF03368.11	557 – 637	$1.7e^{-20}$
			PAZ	PF02170.19	826 – 958	$4.5e^{-14}$
			Ribonuclease 3	PF00636.23	1000 – 1118	$4.5e^{-22}$
			Ribonuclease 3	PF00636.23	1190 - 1301	$3.4e^{-20}$

	SlyDCL2.3	Solyc11g008540.1.1	ResIII	PF00270.26	8 – 137	9.1e ⁻⁰⁵
			Helicase C	PF00271.28	318 – 437	2.4e ⁻¹⁸
			Dicer dimer	PF03368.11	507 – 586	2.6e ⁻²⁰
			PAZ	PF02170.19	777- 908	4.8e ⁻¹⁴
			Ribonuclease 3	PF00636.23	950 – 1068	3.1e ⁻²²
			Ribonuclease 3	PF00636.23	1140 - 1251	7.9e ⁻²⁰
	SlyDCL2.4	Solyc11g008530.1.1	Helicase C	PF00271.28	307 – 420	3.1e ⁻¹⁹
			Dicer dimer	PF03368.11	489 - 568	2.2e ⁻²⁰
			PAZ	PF02170.19	764 – 875	2.3e ⁻¹³
			Ribonuclease 3	PF00636.23	918 – 1036	7.7e ⁻²²
			Ribonuclease 3	PF00636.23	1109 - 1219	3.3e ⁻¹⁹
	SpeDCL2.1	Sopen11g004310.1	DEAD	PF00270.26	121 – 287	1.6e ⁻¹³
			Helicase C	PF00271.28	468 – 587	6.7e ⁻¹⁸
			Dicer dimer	PF03368.11	657 – 738	2.5e ⁻²³
			PAZ	PF02170.19	933 – 1057	2.3e ⁻¹³
			Ribonuclease 3	PF00636.23	1100 – 1218	2.6e ⁻²²
			Ribonuclease 3	PF00636.23	1290 -1401	1.8e ⁻²⁰
	SpeDCL2.2	Sopen06g015290.2	DEAD	PF00270.26	24 – 190	1.1e ⁻¹²

			Helicase C	PF00271.28	372 – 490	$3.1e^{-17}$
			Dicer dimer	PF03368.11	560 – 642	$7.5e^{-25}$
			PAZ	PF02170.19	829 – 960	$1.1e^{-13}$
			Ribonuclease 3	PF00636.23	1003 – 1121	$3.1e^{-22}$
			Ribonuclease 3	PF00636.23	1192 - 1304	$2.4e^{-20}$
	SpeDCL2.3	Sopen11g004330.1	DEAD	PF00270.26	24 – 190	$9.9e^{-13}$
			Helicase C	PF00271.28	371 – 490	$1.5e^{-18}$
			Dicer dimer	PF03368.11	560 – 640	$7.8e^{-25}$
			PAZ	PF02170.19	830 – 960	$4e^{-14}$
			Ribonuclease 3	PF00636.23	1003 – 1121	$5.2e^{-23}$
			Ribonuclease 3	PF00636.23	1193 - 1304	$6.7e^{-20}$
	SpeDCL2.4	Sopen11g004320.1	DEAD	PF00270.26	24 – 190	$4e^{-13}$
			Helicase C	PF00271.28	360 – 473	$2.3e^{-21}$
			Dicer dimer	PF03368.11	542 – 587	$7.4e^{-10}$
			PAZ	PF02170.19	799 – 909	$2.7e^{-12}$
			Ribonuclease 3	PF00636.23	952 – 1070	$1.3e^{-21}$
			Ribonuclease 3	PF00636.23	1143 - 1210	$1.5e^{-11}$
	SpeDCL2.5	Sopen11g017590.1	Helicase C	PF00271.28	186 – 305	$3.1e^{-18}$

	SpeDCL2.6	Sopen06g015290.3	DEAD	PF00270.26	24 – 190	$8.7e^{-13}$
			Helicase C	PF00271.28	371 – 490	$2.6e^{-17}$
			Dicer dimer	PF03368.11	560 – 642	$6.3e^{-25}$
			PAZ	PF02170.19	829 – 960	$9e^{-14}$
			Ribonuclease 3	PF00636.23	1003 - 1121	$2.6e^{-22}$
	Ortólogo em <i>Malus domestica</i>	XP_008370841.1	DEAD	PF00270.26	20 – 163	$4.9e^{-14}$
			Helicase C	PF00271.28	368 – 486	$6.8e^{-17}$
			Dicer dimer	PF03368.11	556 – 631	$6.3e^{-22}$
			PAZ	PF02170.19	826 – 952	$5.2e^{-14}$
			Ribonuclease 3	PF00636.23	995 – 1113	$7.3e^{-24}$
			Ribonuclease 3	PF00636.23	1185 – 1296	$3e^{-22}$
			dsrm	PF00035.23	1323 - 1387	$1.5e^{-04}$
	Ortólogo em <i>Theobroma cacao</i>	XP_007029209.1	Helicase C	PF00271.28	285 – 399	$6e^{-18}$
			Dicer dimer	PF03368.11	469 – 548	$1.1e^{-22}$
			PAZ	PF02170.19	738 – 862	$1.1e^{-15}$
			Ribonuclease 3	PF00636.23	905 – 1020	$9e^{-24}$
			Ribonuclease 3	PF00636.23	1095 – 1206	$1.8e^{-21}$
			dsrm	PF00035.23	1233 - 1297	$1.7e^{-06}$

	Ortólogo em <i>Solanum tuberosum</i>	XP_015166742.1	DEAD	PF00270.26	24 – 190	$8.9e^{-13}$
			Helicase C	PF00271.28	371 – 490	$4.7e^{-19}$
			Dicer dimer	PF03368.11	560 – 640	$7.8e^{-25}$
			PAZ	PF02170.19	836 – 960	$1.1e^{-14}$
			Ribonuclease 3	PF00636.23	1003 – 1121	$1.8e^{-22}$
			Ribonuclease 3	PF00636.23	1193 - 1304	$4.1e^{-20}$
DCL3	SlyDCL3.1	Solyc08g067210.2.1	Helicase C	PF00271.28	161 – 277	$1.2e^{-17}$
			Dicer dimer	PF03368.11	348 – 432	$8.1e^{-23}$
			PAZ	PF02170.19	662 – 798	$1e^{-10}$
			Ribonuclease 3	PF00636.23	840 – 974	$1.2e^{-25}$
			Ribonuclease 3	PF00636.23	1052 - 1156	$8.6e^{-21}$
	SlyDCL3.2	Solyc08g067200.1.1	DEAD	PF00270.26	38 - 199	$9.9e^{-19}$
	SpeDCL3	Sopen08g021150.1	DEAD	PF00270.26	38 - 199	$3e^{-17}$
			Helicase C	PF00271.28	394 – 505	$2e^{-18}$
			Dicer dimer	PF03368.11	576 – 662	$1.6e^{-25}$
			PAZ	PF02170.19	890 – 1026	$7.1e^{-10}$
			Ribonuclease 3	PF00636.23	1068 – 1201	$2.2e^{-25}$
			Ribonuclease 3	PF00636.23	1280 - 1384	$1.5e^{-20}$

	Ortólogo em <i>Citrus sinensis</i>	XP_006474520.1	ResIII	PF00270.26	57 – 210	$2e^{-16}$
			Helicase C	PF00271.28	401 – 515	$2.5e^{-18}$
			Dicer dimer	PF03368.11	586 – 672	$6.9e^{-28}$
			PAZ	PF02170.19	904 – 1036	$8.8e^{-16}$
			Ribonuclease 3	PF00636.23	1078 – 1211	$5.8e^{-24}$
			Ribonuclease 3	PF00636.23	1287 - 1395	$2.7e^{-20}$
	Ortólogo em <i>Solanum tuberosum</i>	XP_006361520.1	DEAD	PF00270.26	39 – 200	$5.3e^{-17}$
			Helicase C	PF00271.28	391 – 506	$1.8e^{-18}$
			Dicer dimer	PF03368.11	577 – 663	$4.5e^{-25}$
			PAZ	PF02170.19	892 – 1027	$8.6e^{-11}$
			Ribonuclease 3	PF00636.23	1069 – 1202	$3.8e^{-25}$
			Ribonuclease 3	PF00636.23	1282 - 1385	$3.7e^{-20}$
DCL4	SlyDCL4	Solyc07g005030.2.1	DEAD	PF00270.26	7 – 128	$2.4e^{-08}$
			Helicase C	PF00271.28	300 – 419	$4.6e^{-19}$
			Dicer dimer	PF03368.11	485 – 568	$2.7e^{-23}$
			Ribonuclease 3	PF00636.23	937 – 1067	$1.1e^{-22}$
			Ribonuclease 3	PF00636.23	1143 – 1252	$5.9e^{-21}$
			DND1 DSRM	PF14709.4	1454 - 1528	$4.4e^{-15}$

	SpeDCL4.1	Sopen07g001140.1	zf-RVT	PF13966.3	9 – 64	$2.2e^{-07}$
			DEAD	PF00270.26	122 – 282	$6.2e^{-15}$
			Helicase C	PF00271.28	467 – 572	$1.6e^{-18}$
			Dicer dimer	PF03368.11	639 – 724	$2.2e^{-26}$
			PAZ	PF02170.19	929 – 1048	$1.2e^{-06}$
			Ribonuclease 3	PF00636.23	1091 – 1221	$3.8e^{-22}$
			Ribonuclease 3	PF00636.23	1297 – 1406	$7.5e^{-21}$
			DND1 DSRM	PF14709.4	1608 - 1608	$1.5e^{-15}$
	SpeDCL4.2	Sopen07g001140.2	DEAD	PF00270.26	106 – 268	$3.5e^{-15}$
			Helicase C	PF00271.28	453 – 558	$1.6e^{-18}$
			Dicer dimer	PF03368.11	625 – 710	$2.2e^{-26}$
			PAZ	PF02170.19	916 – 1035	$1.2e^{-06}$
			Ribonuclease 3	PF00636.23	1078 – 1208	$3.8e^{-22}$
			Ribonuclease 3	PF00636.23	1284 – 1393	$7.5e^{-21}$
			DND1 DSRM	PF14709.4	1595 - 1669	$1.5e^{-15}$
	SpeDCL4.3	Sopen07g001140.3	DEAD	PF00270.26	106 – 268	$3.5e^{-15}$
			Helicase C	PF00271.28	453 – 558	$1.6e^{-18}$
			Dicer dimer	PF03368.11	625 – 710	$2.2e^{-26}$

			PAZ	PF02170.19	915 – 1034	$1.2e^{-06}$
			Ribonuclease 3	PF00636.23	1077 – 1207	$3.8e^{-22}$
			Ribonuclease 3	PF00636.23	1283 – 1392	$7.5e^{-21}$
			DND1 DSRM	PF14709.4	1594 - 1668	$1.5e^{-15}$
	Ortólogo em <i>Phaseolus vulgaris</i>	XP_007155126.1	ResIII	PF04851.12	55 – 212	$1.3e^{-13}$
			Helicase C	PF00271.28	404 – 509	$2e^{-18}$
			Dicer dimer	PF03368.11	576 – 660	$2.1e^{-24}$
			PAZ	PF02170.19	868 – 989	$2.5e^{-12}$
			Ribonuclease 3	PF00636.23	1033 – 1164	$3.1e^{-21}$
			Ribonuclease 3	PF00636.23	1240 - 1349	$1e^{-21}$
	Ortólogo em <i>Solanum indicum</i>	XP_011078684.1	DEAD	PF00270.26	51 – 192	$2.7e^{-14}$
			Helicase C	PF00271.28	401 – 504	$7.3e^{-19}$
			Dicer dimer	PF03368.11	571 – 656	$4.6e^{-28}$
			PAZ	PF02170.19	866 – 982	$8.3e^{-07}$
			Ribonuclease 3	PF00636.23	1025 – 1155	$3.7e^{-21}$
			Ribonuclease 3	PF00636.23	1231 – 1340	$3.8e^{-21}$
			DND1 DSRM	PF14709.4	1552 - 1627	$2.4e^{-21}$

Tabela S5 – Caracterização das famílias e sequências maduras e precursoras de miRNAs em *Solanum lycopersicum*. Tamanho (Tam)

Família	miRNA precursor	Tamanho do miRNA precursor	miRNA maduro	Sequência do miRNA maduro	Tamanho do miRNA maduro	Localização do maduro no precursor	miRNA maduro ortólogo	Número de mismatches com o miRNA ortólogo	Número de gaps com o miRNA ortólogo
Sly-MIR1128	sly-miR1128	269	sly-miR1128	uacuacuccuccgucacaaa	21	1-21	ssp-miR1128	0	0
Sly-MIR1446	sly-miR1446-1	113	sly-miR1446-1	ugaacucucuccucaauuggcu	22	21-42	nta-miR1446	0	0
	sly-miR1446-2	108	sly-miR1446-2-5p	ugaacucucuccucaauuggcu	22	11-32	nta-miR1446	0	0
Sly-MIR156/157	sly-miR156a-1	92	sly-miR156a-1	ugacagaagagagugagcaca	21	4-24	bn-miR156a	0	0
	sly-miR156a-2	93	sly-miR156a-2-3p	gcucacuucucauucugucaga	22	70-91	aly-miR156a-3p	2	0
			sly-miR156a-2-5p	ugacagaagagagugagcaca	21	4-24	bn-miR156a	0	0
	sly-miR156c	99	sly-miR156c-3p	ugcuuacucucuaucugucacc	22	77-98	mtr-miR156c-3p	0	0
			sly-miR156c-5p	ugauagaagagagugagcaca	21	4-24	rc-miR156c	1	0
	sly-miR156f	164	sly-miR156f	uugacagaagagagagaguaca	22	42-63	gma-miR156f	1	0
	sly-miR156i-1	155	sly-miR156i-1-3p	gcucacugcucuaucuuucauc	22	98-119	zma-miR156i-3p	1	0
			sly-miR156i-1-5p	ugacagaagagcgugagcac	20	33-52	zma-miR156i-5p	1	0
	sly-miR156i-2	104	sly-miR156i-2-3p	ugcucacuucucuaucugucauc	23	61-83	mtr-miR156i-3p	1	0
			sly-miR156i-2-5p	ugacagaagagagugggcac	20	7-26	zma-miR156i-5p	1	0
	sly-miR156l-1	110	sly-miR156l-1-3p	gcucacugcucuaucugucacc	22	79-100	zma-miR156l-3p	0	0
			sly-miR156l-1-5p	ugacagaagagagugagcac	20	12-31	zma-miR156l-5p	0	0
	sly-miR156l-2	112	sly-miR156l-2-3p	gcucacugcucuaucugucacc	22	84-105	zma-miR156l-3p	0	0
			sly-miR156l-2-5p	ugacagaagagagugagcac	20	10-29	zma-miR156l-5p	0	0
	sly-miR157a-1	146	sly-miR157a-1-3p	gcucuuuauucucugucauca	22	96-117	aly-miR157a-3p	3	0
			sly-miR157a-1-5p	uugacagaagauagagagcac	21	31-51	ath-miR157a-5p	0	0
	sly-miR157a-2	202	sly-miR157a-2-3p	gcucucuaucucucugucauca	22	125-146	aly-miR157a-3p	2	0
			sly-miR157a-2-5p	uugacagaagauagagagcac	21	61-81	ath-miR157a-5p	0	0
	sly-miR157a-3	101	sly-miR157a-3-3p	gcucucuaugcuucugucauc	21	81-101	aly-miR157a-3p	2	0
			sly-miR157a-3-5p	uugacagaagauagagagcac	21	1-21	ath-miR157a-5p	0	0
	sly-miR157a-4	246	sly-miR157a-4-5p	uugacagaagauagagagcac	21	63-83	ath-miR157a-5p	0	0
Sly-MIR159	sly-miR159a	178	sly-miR159a-3p	uuuggauugaaggagcucua	21	157-177	ath-miR159a	0	0
			sly-miR159a-5p	gagcuccuugaaguccaa	18	2-19	gma-miR159a-5p	0	0

			sly-miR159b-3p	auuggaaugaaggagcucua	21	22-242	gma-miR159b-3p	2	0
	sly-miR159b	259	sly-miR159b-5p	uugcauaauacaggagcuuca	21	181-201	hbr-miR159b	1	0
Sly-MIR160	sly-miR160	95	sly-miR160	uggcauacaggagccaggca	21	67-87	aau-miR160	0	0
			sly-miR160a-3p	gcguauaaggagccaagcaua	21	65-85	gma-miR160a-3p	1	0
	sly-miR160a	86	sly-miR160a-5p	ugccuggcucccugaugcca	21	4-24	ath-miR160a-5p	0	0
	sly-miR160g	87	sly-miR160g-5p	ugccuggcucccuggaugcca	21	2-22	ptc-miR160g	0	0
	sly-miR160h-1	95	sly-miR160h-1	ugccuggcucccugaugccauu	23	7-29	mes-miR160h	0	0
	sly-miR160h-2	85	sly-miR160h-2	ugccuggcuccuugaugccauu	23	4-26	mes-miR160h	1	0
Sly-MIR162	sly-miR162-1	128	sly-miR162-1-3p	ucgauaaaccucugcauccag	21	94-104	csi-miR162-3p	0	0
			sly-miR162-1-5p	uggaggcagcgguucaugauc	22	18-39	csi-miR162-5p	0	0
	sly-miR162-2	110	sly-miR162-2-3p	ucgauaaaccucugcauccag	21	77-97	csi-miR162-3p	0	0
			sly-miR162-2-5p	uggaggcagcgguucaugauc	22	16-37	csi-miR162-5p	0	0
Sly-MIR164	sly-miR164a	165	sly-miR164a-3p	caugugccuguuucccauc	21	145-165	sly-miR164a-3p	0	0
			sly-miR164a-5p	uggagaagcagggcacgugca	21	4-24	ath-miR164a	0	0
	sly-miR164e	97	sly-miR164e-5p	uggagaagcagggcacgugcaa	22	4-25	bra-miR164e-5p	0	0
			sly-miR164e-3p	cacguguucuccuuccaac	21	77-97	bra-miR164e-3p	3	0
	sly-miR164f	88	sly-miR164f	uggagaagcagggcacaugcu	21	8-28	ptc-miR164f	0	0
Sly-MIR166	sly-miR166-1	146	sly-miR166-1	ucggaccagguucauuccccc	22	103-124	ctr-miR166	0	0
	sly-miR166-2	158	sly-miR166-2	ucggaccagguucauuccccc	22	128-149	ctr-miR166	0	0
	sly-miR166-3	166	sly-miR166-3	ucggaccagguucauuccccc	22	132-153	ctr-miR166	0	0
	sly-miR166a-1	120	sly-miR166a-1-3p	ucggaccagguucauuccccc	21	91-111	ath-miR166a-3p	0	0
	sly-miR166a-2	107	sly-miR166a-2-3p	ucggaccagguucauuccccc	21	77-97	ath-miR166a-3p	0	0
			sly-miR166a-2-5p	ggaauguuguuuggcucgagg	21	13-33	stu-miR166a-5p	1	0
	sly-miR166a-3	93	sly-miR166a-3-3p	ucggaccagguucauuccccc	21	69-89	ath-miR166a-3p	0	0
	sly-miR166a-4	158	sly-miR166a-4-3p	ucggaccagguucauuccccc	21	115-135	ath-miR166a-3p	0	0
			sly-miR166a-4-5p	ggaauguugucuggcucgagg	21	25-45	aly-miR166a-5p	0	0
	sly-miR166g	187	sly-miR166g-3p	ucggaccagguucauuccuc	21	145-165	osa-miR166g-3p	0	0
Sly-MIR167	sly-miR167a-1	122	sly-miR167a-1-3p	gaucauguggcagccuacc	20	83-102	stu-miR167a-3p	1	0
			sly-miR167a-1-5p	ugaagcugccagcaugaucuaa	22	21-43	bn-miR167a	0	0
	sly-miR167a-2	86	sly-miR167a-2-3p	gaucaugugguugcuucacc	20	62-81	stu-miR167a-3p	3	0
			sly-miR167a-2-5p	ugaagcugccagcaugaucuaa	22	7-28	bn-miR167a	0	0
	sly-miR167c	84	sly-miR167c-3p	ggucaugcucggacagccucacu	23	62-84	stu-miR167c-3p	0	0
			sly-miR167c-5p	ugaagcugccagcaugaucua	21	2-22	osa-miR167c-5p	0	0
	sly-miR167h-1	122	sly-miR167h-1	aucaugcuggcagcuucaacugcu	24	84-107	gma-miR167h	1	0

	sly-miR167h-2	113	sly-miR167h-2	aucaugcuggcagcuucaacugcu	24	76-99	gma-miR167h	1	0
			sly-miR167h-3-3p	agaucauguggcagcaucacc	21	60-80	ptc-miR167h-3p	2	0
	sly-miR167h-3	85	sly-miR167h-3-5p	agcaguugaagcugccagcaugau	24	24...1	gma-miR167h	1	0
Sly-MIR168	sly-miR168	154	sly-miR168	auucaguugaugcaaggcgggacc	24	10-33	aau-miR168	1	0
	sly-miR168a-1	154	sly-miR168a-1-3p	cccgccuugcaucaacugaau	21	125-145	aly-miR168a-3p	0	0
			sly-miR168a-1-5p	ucgcuuggugcaggucgggac	21	10-30	sly-miR168a-5p	0	0
	sly-miR168a-2	160	sly-miR168a-2-5p	ucgcuuggugcaggucgggac	21	9-29	nta-miR168a	0	0
			sly-miR168a-2-3p	ccugccuugcaucaacugaau	21	135-155	sly-miR168a-3p	0	0
Sly-MIR169	sly-miR169a-1	315	sly-miR169a-1-3p	ggcaaguuguucuggcuaua	21	13-33	zma-miR169a-3p	1	0
	sly-miR169a-2	158	sly-miR169a-2-5p	cagccaaggagacuugccga	21	42-62	ath-miR169a-5p	0	0
	sly-miR169b-1	202	sly-miR169b-1-5p	cagccaaggagacuugccgg	21	68-88	ath-miR169b-5p	0	0
	sly-miR169b-2	147	sly-miR169b-2-5p	cagccaaggagacuugccgg	21	42-62	ath-miR169b-5p	0	0
			sly-miR169b-2-3p	ggcaaguuguucuggcuaua	21	92-102	zma-miR169b-3p	1	0
	sly-miR169b-3	184	sly-miR169b-3-5p	cagccaaggagacuugccgg	21	63-83	ath-miR169b-5p	0	0
	sly-miR169d	164	sly-miR169d-3p	gcaggucaucuuagcuuacu	21	103-123	stu-miR169d-3p	0	0
			sly-miR169d-5p	uagccaaggagacuugucu	20	43-62	sbi-miR169d-5p	1	0
			sly-miR169e-3p	uggcaagcaucuuugcgacu	21	133-153	sly-miR169e-3p	0	0
	sly-miR169e	193	sly-miR169e-5p	uagccaaggagacuugccuuu	22	48-69	sly-miR169e-5p	0	0
	sly-miR169f.1	188	sly-miR169f.1	uagccaaggagacuugccua	21	45-65	osa-miR169f.1	0	0
	sly-miR169g	208	sly-miR169g	uagccaaggagacuugccugc	22	45-66	bn-miR169g	0	0
	sly-miR169m	184	sly-miR169m	uagccaaaaugacuugccag	21	55-75	cme-miR169m	1	0
Sly-MIR170/171	sly-miR170-1	112	sly-miR170-1-3p	ugauugagccgugucaauauc	21	72-92	ath-miR170-3p	0	0
			sly-miR170-1-5p	uauuggccugguucacucaga	21	23-43	aly-miR170-5p	0	0
			sly-miR170-2-3p	ugauugagccgugccaauau	20	70-89	ath-miR170-3p	1	0
	sly-miR170-2	89	sly-miR170-2-5p	uauuggccugguucacucaga	21	1-21	aly-miR170-5p	0	0
	sly-miR171b-1	92	sly-miR171b-1-3p	uugagccgugccaauaucacg	21	68-88	ath-miR171b-3p	0	0
			sly-miR171b-1-5p	agauauuggugcgguucaau	20	7-26	aly-miR171b-5p	1	0
	sly-miR171b-2	159	sly-miR171b-2-3p	uugagccgugccaauaucacg	21	105-125	ath-miR171b-3p	0	0
	sly-miR171b-3	110	sly-miR171b-3	ugauugagccgugccaauauc	21	72-92	osa-miR171b	0	0
			sly-miR171c-1-3p	ugauugagccgcgccaauau	20	57-76	osa-miR171c-3p	1	0
	sly-miR171c-1	76	sly-miR171c-1-5p	uauuggugcgguucaaugaga	21	1-21	sly-miR171c	0	0
	sly-miR171c-2	99	sly-miR171c-2	agauugagccgcgccaauauc	21	70-90	ptc-miR171c	0	0
	sly-miR171c-3	100	sly-miR171c-3-3p	agauugagccgcgccaauauc	21	71-91	ptc-miR171c	0	0
			sly-miR171c-3-5p	gauguuggugagguucauac	20	10-29	aly-miR171c-5p	2	0

	sly-miR171c-4	92	sly-miR171c-4	uaauugaaccgcaccaauauc	21	65-85	aqc-miR171c	1	0
	sly-miR171f	112	sly-miR171f	augagccgaaccaauaucacu	21	72-92	sbi-miR171f	0	0
	sly-miR171i	86	sly-miR171i-3p	ggauugagccgcgucaauauc	21	63-83	osa-miR171i-3p	0	0
Sly-MIR172	sly-miR172d-1	111	sly-miR172d-1	ugugaauucuugaugaugcugcau	23	71-93	vvi-miR172d	1	0
	sly-miR172d-2	274	sly-miR172d-2	gagaauucuugaugaugcugcau	22	12-33	vvi-miR172d	0	0
	sly-miR172d-3	93	sly-miR172d-2-3p	ugagaauucuugaugaugcugcau	23	67-89	vvi-miR172d	0	0
			sly-miR172d-5p	gcagaccauuuagauucaca	21	6-26	bra-miR172d-5p	1	0
	sly-miR172d-4	142	sly-miR172d-4-3p	gagaauucuugaugaugcugcau	22	103-124	vvi-miR172d	0	0
			sly-miR172d-4-5p	gcauaaucaagauucac	17	24-40	stu-miR172d-5p	1	0
	sly-miR172d-5	164	sly-miR172d-5-3p	ugggaauucuugaugaugcugcau	23	122-144	vvi-miR172d	1	0
			sly-miR172d-5-5p	ugcaucaucaagaauucaca	22	14-35	mtr-miR172d-5p	2	0
	sly-miR172d-6	248	sly-miR172d-6-3p	ugagaauucuugaugaugcugcau	23	128-150	vvi-miR172d	0	0
			sly-miR172d-6-5p	ugcagcaucaucaagaauucaca	22	30-51	mtr-miR172d-5p	1	0
	sly-miR172d-7	166	sly-miR172d-7-3p	ugagaauucuugaugaugcugca	22	130-151	vvi-miR172d	0	0
			sly-miR172d-7-5p	ugcagcaucuucaagaauucaca	22	7-28	mtr-miR172d-5p	2	0
	sly-miR172d-8	126	sly-miR172d-8-5p	guggagcaucaucaagaauucaca	23	17-39	mtr-miR172d-5p	0	0
			sly-miR172d-8-3p	ggaaucuugaugaugcugcag	21	91-111	stu-miR172d-3p	0	0
	sly-miR172d-9	111	sly-miR172d-9-5p	aaugcagcaucaucaagaauucaca	24	18-41	mtr-miR172d-5p	2	0
			sly-miR172d-9-3p	agaauucuuaauagugcugcau	21	73-93	osa-miR172d-3p	3	0
	sly-miR172d-10	188	sly-miR172d-10-5p	augcagcaucaucaagaauucuca	23	70-48	vvi-miR172d	0	0
			sly-miR172d-10-3p	ugcagcaucaucaagaauucu	20	68-49	ath-miR172d-3p	0	0
	sly-miR172j-1	109	sly-miR172j-1-5p	gcagcaucaucaagaauuccca	21	10-30	lus-miR172j	0	0
			sly-miR172j-1-3p	gaauucuugaugaugcucca	19	83-101	nta-miR172j	1	0
	sly-miR172j-2	169	sly-miR172j-2-5p	gcagcaucaucaagaauuccca	21	22-42	lus-miR172j	0	0
			sly-miR172j-2-3p	gaauucuugaugauguugcau	20	132-151	nta-miR172j	1	0
Sly-MIR1886	sly-miR1886a	187	sly-miR1886a	augguaucgugagaugaaucagc	24	64-87	stu-miR1886a	0	0
	sly-miR1886h-1	71	sly-miR1886h-1	auuuuacguugauuucaucucaug	24	39-62	stu-miR1886h	0	0
	sly-miR1886h-2	174	sly-miR1886h-2	auuuuacguugauuucaucucaug	24	89-112	stu-miR1886h	0	0
Sly-MIR1917	sly-miR1917-1	148	sly-miR1917-1	auuaauaaagagugcuaaagu	21	33-53	sly-miR1917	0	0
	sly-miR1917-2	191	sly-miR1917-2	auuaauaaagagugcuaaagu	21	43-63	sly-miR1917	0	0
Sly-MIR1918	sly-miR1918	166	sly-miR1918	uguuggugagaguucgauucuc	22	37-58	sly-miR1918	0	0
Sly-MIR1919	sly-miR1919a-1	177	sly-miR1919a-1	acgagagucaucugugacagg	21	113-133	sly-miR1919a	0	0
	sly-miR1919a-2	160	sly-miR1919a-2	acgagagucaucugugacagg	21	110-130	sly-miR1919a	0	0
	sly-miR1919a-3	164	sly-miR1919a-3	acgagagucaucugugacagg	21	111-131	sly-miR1919a	0	0

Sly-MIR2101	sly-miR2101	82	sly-miR2101-3p	auuuuacucaagugagcau	19	53-71	osa-miR2101-3p	0	0
			sly-miR2111a-3p	ccuugggaugcagauuauuc	19	53-71	mtr-miR2111a-3p	1	0
Sly-MIR2111	sly-miR2111a	71	sly-miR2111a-5p	uaaucugcauccugagguuuu	21	4-24	ath-miR2111a-5p	0	0
Sly-MIR2604	sly-miR2604	199	sly-miR2604	uaauuuuuuuguggaaguguu	21	49-69	mtr-miR2604	1	0
Sly-MIR319	sly-miR319-1	197	sly-miR319-3p-1	uuggacugaaggguuuccuuc	21	167-187	stu-miR319-3p	1	0
			sly-miR319-5p-1	gcugcugaaucauugguuca	20	61-80	ata-miR319-5p	4	0
	sly-miR319-2	179	sly-miR319-5p-2	aggaaacuguuuaguccaacc	21	2-22	stu-miR319-5p	0	0
			sly-miR319-3p-2	uuggacugaaggguuuccuuc	21	159-179	stu-miR319-3p	1	0
	sly-miR319a-1	187	sly-miR319a-1-3p	uuggacugaagggagcucccu	21	161-181	ath-miR319a	0	0
			sly-miR319a-1-5p	gagcucucuccgguccaguc	20	10-29	zma-miR319a-5p	3	0
	sly-miR319a-2	189	sly-miR319a-2-3p	uuggacugaagggagcucccu	21	160-180	ath-miR319a	0	0
			sly-miR319a-2-5p	agagcuuccuuuaguccacuc	21	11-31	mtr-miR319a-5p	1	0
	sly-miR319c-1	177	sly-miR319c-1	uuggacugaagggagcuccu	20	158-177	ath-miR319c	0	0
	sly-miR319c-2	177	sly-miR319c-2-3p	uuggacugaagggagcuccu	21	157-177	ath-miR319c	0	0
			sly-miR319c-2-5p	agagcuuccuucagccacuc	21	5-25	sly-miR319c-5p	0	0
	sly-miR319c-3	171	sly-miR319c-3-3p	cuuggacugaagggagcuccc	21	151-171	ppt-miR319c	0	0
			sly-miR319c-3-5p	gagcuuuuuuaguccacac	20	2-21	zma-miR319c-5p	3	0
Sly-MIR3627	sly-miR3627	125	sly-miR3627-3p	aagugccucugucuucgaca	21	85-105	stu-miR3627-3p	0	0
			sly-miR3627-5p	uugucgcaggagagauggcacu	22	20-41	vvi-miR3627-5p	1	0
Sly-MIR390	sly-miR390a	110	sly-miR390a-3p	cgcuauccaucugaguuuca	21	76-96	aly-miR390a-3p	0	0
			sly-miR390a-5p	aagcucaggaggauagcgcc	21	18-38	ath-miR390a-5p	0	0
	sly-miR390b	103	sly-miR390b-3p	cgcuauccaucugaguuuu	21	67-87	lja-miR390b-3p	1	0
			sly-miR390b-5p	aagcucaggaggauagcacc	21	18-38	gma-miR390b-5p	0	0
Sly-MIR393	sly-miR393a	78	sly-miR393a-3p	aucaugcgauucucuucggaau	21	58-78	aly-miR393a-3p	3	0
			sly-miR393a-5p	uccaaagggaucgauugaucc	22	2-23	ath-miR393a-5p	0	0
Sly-MIR394	sly-miR394a	81	sly-miR394a	uuggcauucuguccaccucc	20	12-31	ath-miR394a	0	0
	sly-miR394b	235	sly-miR394b-3p	aggugggcauacugccaauag	21	146-166	ath-miR394b-3p	0	0
			sly-miR394b-5p	uuggcauucuguccaccucc	20	72-91	ath-miR394b-5p	0	0
Sly-MIR395	sly-miR395a-1	151	sly-miR395a-1	cugaaguguuugggggaacuc	21	3-23	ath-miR395a	0	0
	sly-miR395a-2	170	sly-miR395a-2	cugaaguguuugggggaacucc	22	10-31	sly-miR395a	0	0
	sly-miR395a-3	107	sly-miR395a-3	cugaaguguuugggggaacuc	21	69-89	ath-miR395a	0	0
			sly-miR395a-4-3p	cugaaguguuugaggggaac	19	259-277	ath-miR395a	1	0
	sly-miR395a-4	302	sly-miR395a-4-5p	cugaaguguuugggggaacucc	22	76-97	sly-miR395a	0	0
	sly-miR395g	163	sly-miR395g	uugaaguguuugggggaacuc	21	9-29	mtr-miR395g	0	0

Sly-MIR396	sly-miR396a	144	sly-miR396a-3p	guucaauaaagcugugggaag	21	103-123	aly-miR396a-3p	0	0
			sly-miR396a-5p	uuccacagcuuucuugaacug	21	24-44	ath-miR396a-5p	0	0
	sly-miR396b	120	sly-miR396b-3p	caagaagcugugggaaa	18	96-113	aly-miR396b-3p	0	0
			sly-miR396b-5p	uuccacagcuuucuugaacuu	21	11-31	ath-miR396b-5p	0	0
	sly-miR396g-1	144	sly-miR396g-1-3p	guucaagaaagcuguggaaaa	21	104-124	zma-miR396g-3p	1	0
			sly-miR396g-1-5p	ucccacagcuuucuuggacu	20	22-41	zma-miR396g-5p	2	0
	sly-miR396g-2	130	sly-miR396g-2-5p	ucccacagcuuauugaaccg	21	17-37	zma-miR396g-5p	1	0
			sly-miR396g-2-3p	guucaagaaagcuguggaaaa	21	96-116	zma-miR396g-3p	1	0
Sly-MIR397	sly-miR397-1	127	sly-miR397-1-3p	caucaacgcuaaacucgauca	21	86-106	stu-miR397-3p	2	0
			sly-miR397-1-5p	auugagugcagcgugaugac	21	26-46	stu-miR397-5p	0	0
	sly-miR397-2	127	sly-miR397-2-3p	caucaacgcugcacucaauca	21	84-104	stu-miR397-3p	1	0
			sly-miR397-2-5p	aucgaguuuagcgugauga	20	24-43	stu-miR397-5p	3	0
Sly-MIR398	sly-miR398a	90	sly-miR398a-3p	uauuguucucaggucgccccu	20	71-90	stu-miR398a-3p	0	0
			sly-miR398a-5p	ggguugauuuugagaacauaug	21	1-21	stu-miR398a-5p	0	0
	sly-miR398b	111	sly-miR398b-3p	uguguucucagguuacccug	21	82-102	ath-miR398b-3p	1	0
Sly-MIR399	sly-miR399a-1	140	sly-miR399a-1	ugccaaaggagaaaugccug	21	105-125	osa-miR399a	0	0
	sly-miR399a-2	140	sly-miR399a-2	ugccaaaggagaaugcacug	21	103-123	osa-miR399a	1	0
	sly-miR399a-3	103	sly-miR399a-3-3p	cgccaaaggagagcugccug	21	64-84	nta-miR399a	0	0
			sly-miR399a-3-5p	gggcuacucucuauuggcaug	21	21-41	stu-miR399a-5p	0	0
	sly-miR399a-4	323	sly-miR399a-4-3p	cgccaaaggagagcugccug	21	102-122	nta-miR399a	0	0
			sly-miR399a-4-5p	gggcuacucucuauuggcaug	21	59-79	stu-miR399a-5p	0	0
	sly-miR399a-5	217	sly-miR399a-5-3p	cgccaaaggagagcugccug	21	138-158	nta-miR399a	0	0
			sly-miR399a-5-5p	gggcuacucucuauuggcaug	21	63-83	stu-miR399a-5p	0	0
	sly-miR399d-1	123	sly-miR399d-1	ugccaaagaagauuugccccg	21	82-102	ptc-miR399d	0	0
	sly-miR399d-2	171	sly-miR399d-2	ugccaaagaagauuugccccg	21	109-129	ptc-miR399d	0	0
	sly-miR399d-3	89	sly-miR399d-3-3p	gccaaaggagagcugccua	20	61-80	mtr-miR399d	0	0
			sly-miR399d-3-5p	gggcuacucucuauaggcau	20	11-30	stu-miR399d-5p	1	0
	sly-miR399i-1	103	sly-miR399i-1	ugccaaaggagagcugccug	21	64-84	osa-miR399i	0	0
	sly-miR399j-2	146	sly-miR399j-2	ugccaaaggagaguugccua	21	100-120	osa-miR399j	0	0
sly-miR399j-3	70	sly-miR399j-3-3p	ugccaaaggagaguugccua	21	50-70	osa-miR399j	0	0	
		sly-miR399j-3-5p	gggcuacacucuauuggcau	20	2-21	stu-miR399j-5p	1	0	
Sly-MIR403	sly-miR403	112	sly-miR403-3p	cuagauucacgcacaagcucg	21	74-94	sly-miR403-3p	0	0
			sly-miR403-5p	cguuugugcgugaucuaaca	21	21-41	sly-miR403-5p	0	0
	sly-miR403a	112	sly-miR403a-3p	uuagauucacgcacaaagcug	21	74-94	gma-miR403a	1	0

			sly-miR403a-5p	uugugcgugaauca	15	24-38	aly-miR403a-5p	1	0
Sly-MIR408	sly-miR408-1	128	sly-miR408-1	caggaagaggcagugcaugg	21	30-50	lja-miR408	1	0
	sly-miR408-2	88	sly-miR408-2-3p	augcacugcccuucccuggc	21	60-80	ath-miR408-3p	0	0
			sly-miR408-2-5p	cggggacgagccagagcaug	20	11-30	osa-miR408-5p	3	0
			sly-miR408a-3p	augcacagcccuucccuggc	21	52-72	gma-miR408a-3p	1	0
	sly-miR408a	72	sly-miR408a-5p	acagggacgagcagcgcaug	21	1-21	stu-miR408a-5p	0	0
Sly-MIR437	sly-miR437	233	sly-miR437	aaaguuagagauguugacuu	21	65-85	osa-miR437	1	0
Sly-MIR4376	sly-miR4376	96	sly-miR4376-3p	gcaucauacuccugcauuu	20	68-87	stu-miR4376-3p	0	0
			sly-miR4376-5p	acgcaggagagaugaugcugga	22	13-34	sly-miR4376	0	0
Sly-MIR477	sly-miR477	114	sly-miR477-3p	aguucuuguaggugagacaac	22	79-100	sly-miR477-3p	0	0
			sly-miR477-5p	ugucucuccucaaggcucc	21	18-38	sly-miR477-5p	0	0
			sly-miR477a-3p	gaagcucuagcaggagagcca	22	49-70	stu-miR477a-3p	0	0
	sly-miR477a	70	sly-miR477a-5p	ccucuccucaaggcuucuc	21	2-22	stu-miR477a-5p	0	0
			sly-miR477b-3p	gaggucuuucgagugagaguga	22	51-72	stu-miR477b-3p	0	0
	sly-miR477b	72	sly-miR477b-5p	acucuccucaaggcuucug	21	2-22	stu-miR477b-5p	0	0
Sly-MIR482	sly-miR482a-1	136	sly-miR482a-1	ucuuuccuacuccccauacc	22	85-106	ghr-miR482a	0	0
			sly-miR482a-2-5p	gggauuggugaguuggaaagc	21	12-32	stu-miR482a-5p	3	0
	sly-miR482a-2	91	sly-miR482a-2-3p	uuuccaaauccaccuauccua	22	60-81	sly-miR482a	0	0
	sly-miR482c	145	sly-miR482c	uuuccuauuccaccuagccaa	22	98-112	stu-miR482c	0	0
	sly-miR482d	111	sly-miR482d-3p	ucuugccuacaccgccaugcc	22	71-92	stu-miR482d-3p	0	0
			sly-miR482d-5p	cgugagcggugggaaagaua	21	21-41	stu-miR482d-5p	2	0
	sly-miR482e	149	sly-miR482e-3p	ucuugccaauaccgccauucc	22	91-112	stu-miR482e-3p	0	0
			sly-miR482e-5p	aguggguggugugguaagauu	21	42-62	stu-miR482e-5p	0	0
Sly-MIR5014	sly-miR5014a	223	sly-miR5014a-3p	uuguacaaaauaagugua	19	171-189	ath-miR5014a-3p	0	0
Sly-MIR5162	sly-miR5162	139	sly-miR5162	aaaugacaaaauacccuaaa	22	77-98	osa-miR5162	1	0
Sly-MIR5174	sly-miR5174d	248	sly-miR5174d-5p	ucccuccguuucaaaaagauggc	24	1-24	bdi-miR5174d-5p	1	0
Sly-MIR5282	sly-miR5282	128	sly-miR5282-3p	gacggaauuagagaggauuuua	23	73-95	mtr-miR5282	1	0
			sly-miR5282-5p	augaaaauccuacaaaauccuu	23	34-56	mtr-miR5282	5	0
Sly-MIR530	sly-miR530	82	sly-miR530	ucugcauuugcaccugaccu	21	2-22	stu-miR530	0	0
Sly-MIR5300	sly-miR5300	266	sly-miR5300-5p	uccccaguccaggcauuccaac	22	18-39	sly-miR5300	0	0
Sly-MIR5303	sly-miR5303	126	sly-miR5303	uuuuugaagaguucgagcaac	21	99-119	sly-miR5303	0	0
	sly-miR5303c	136	sly-miR5303c	uuuuggagaauccgacacgaccc	24	73-96	stu-miR5303c	0	0
	sly-miR5303f	126	sly-miR5303f	auuuuuggagaauucgacacgggu	24	67-90	stu-miR5303f	0	0
	sly-miR5303g	128	sly-miR5303g	auauuuuugaagagucugagcaac	24	92-115	stu-miR5303g	0	0

	sly-miR5303h-1	131	sly-miR5303h-1	aacauuuuugaagagucugagcaa	24	98-121	stu-miR5303h	0	0
	sly-miR5303h-2	124	sly-miR5303h-2	aacauuuuugaagagucugagcaa	24	93-116	stu-miR5303h	0	0
	sly-miR5303j-1	107	sly-miR5303j-1	aauuuuuuugaagagucugagcaa	24	64-87	stu-miR5303j	0	0
	sly-miR5303j-2	128	sly-miR5303j-2	aauuuuuuugaagagucugagcaa	24	98-121	stu-miR5303j	0	0
Sly-MIR5304	sly-miR5304	142	sly-miR5304-3p	agaugaguauaggugcauugga	21	93-113	stu-miR5304-3p	0	0
			sly-miR5304-5p	ucaaugcuacauacucauccc	21	33-53	sly-miR5304	0	0
Sly-MIR5368	sly-miR5368	83	sly-miR5368	ggacagucucagguagaca	19	31-49	gma-miR5368	0	0
Sly-MIR5532	sly-miR5532-1	163	sly-miR5532-1	auggaauauaugacaaaggugg	22	36-57	osa-miR5532	0	0
	sly-miR5532-2	263	sly-miR5532-2	auggaauauaugacaaaggugg	22	169-190	osa-miR5532	0	0
Sly-MIR6024	sly-miR6024	116	sly-miR6024-3p	uuuuagcaagaguuguuuuacc	22	76-97	sly-miR6024	0	0
			sly-miR6024-5p	agaaacaacacuugcuaaaagga	22	21-42	stu-miR6024-5p	1	0
Sly-MIR6027	sly-miR6027	153	sly-miR6027-3p	ugaauccuucggcuauccauaa	22	118-139	sly-miR6027-3p	0	0
			sly-miR6027-5p	auggguagcacaaggauuaaag	22	17-38	sly-miR6027-5p	0	0
Sly-MIR7122	sly-miR7122	79	sly-miR7122-3p	acagcguuuuucuguauaacc	21	59-79	stu-miR7122-3p	1	0
			sly-miR7122-5p	uauacagagaaaccgcugucg	21	4-24	stu-miR7122-5p	0	0
Sly-MIR7696	sly-miR7696c	246	sly-miR7696c-3p	uuuugaauuauagaacuuga	21	5-25	mtr-miR7696c-3p	1	0
Sly-MIR7805	sly-miR7805	339	sly-miR7805-5p	aaauuugguguagugaauacu	21	238-258	rgl-miR7805-5p	1	0
Sly-MIR7980	sly-miR7980b-1	111	sly-miR7980b-3p-1	gagauggaacaguguuuggacau	24	33-56	stu-miR7980b-3p	0	0
			sly-miR7980b-2-3p	gagauggaaucaacgu	16	32-47	stu-miR7980b-3p	2	0
	sly-miR7980b-2	111	sly-miR7980b-2-5p	guccaaacacugauuccaucuca	23	58-80	stu-miR7980b-5p	0	0
Sly-MIR7981	sly-miR7981	210	sly-miR7981-3p	auaggacuuuaguuuaguuaaggu	24	163-186	stu-miR7981-3p	0	0
			sly-miR7981-5p	uuaacuaacuaagguucuaaua	23	28-50	stu-miR7981-5p	4	0
Sly-MIR7983	sly-miR7983-1	173	sly-miR7983-1-3p	acuaaugccgguaaagacuuuaac	24	113-136	stu-miR7983-3p	0	0
			sly-miR7983-1-5p	uaaagcuuuuagcgauuuuguuc	24	77-100	stu-miR7983-5p	4	0
	sly-miR7983-2	222	sly-miR7983-2-3p	acuaaugccgguaaagacuuuaac	24	138-161	stu-miR7983-3p	0	0
			sly-miR7983-2-5p	uaaagcuuuuagcgaaauuguuuc	24	102-124	stu-miR7983-5p	4	0
	sly-miR7983-3	182	sly-miR7983-3-3p	acuaaugccgguaaagacuuuaac	24	98-121	stu-miR7983-3p	0	0
			sly-miR7983-3-5p	uaacggcuuuagcaacuuggauc	24	62-85	stu-miR7983-5p	4	0
	sly-miR7983-4	137	sly-miR7983-4-5p	uaaagucuuuagcgacauugguuc	24	40-63	stu-miR7983-5p	0	0
			sly-miR7983-4-3p	acuaauuucgguaaagacuuuagc	24	76-99	stu-miR7983-3p	3	0
	sly-miR7983-5	73	sly-miR7983-5-5p	uaaagucuuuagcgacauugguuc	24	9-32	stu-miR7983-5p	0	0
			sly-miR7983-5-3p	acuaaugcugguaaagacuuuagc	24	45-68	stu-miR7983-3p	2	0
	sly-miR7983-6	100	sly-miR7983-6-5p	uaaagucuuuagcgacauugguuc	24	23-46	stu-miR7983-5p	0	0
			sly-miR7983-6-3p	acuaaugacgguaagacuuuagc	24	59-81	stu-miR7983-3p	3	1

Sly-MIR7984	sly-miR7984c	202	sly-miR7984c-3p	uacgauaccaaaacuuuauaggagg	23	1-23	stu-miR7984c-3p	1	0
			sly-miR7984c-5p	acgauaccaaaacuuuauaggagga	23	2-24	stu-miR7984c-5p	1	0
	sly-miR7984d	216	sly-miR7984d-3p	caauuucggcucaagaucggauau	24	193-216	stu-miR7984d-3p	0	0
Sly-MIR7985	sly-miR7985	178	sly-miR7985	cgggcuugccuagugcggguuacc	24	85-108	stu-miR7985	2	0
Sly-MIR7987	sly-miR7987	208	sly-miR7987-3p	acacuaguugaucuuauugaugac	24	130-153	stu-miR7987	0	0
			sly-miR7987-5p	acacuagcugaugcuauugaugac	24	12-35	stu-miR7987	3	0
Sly-MIR7990	sly-miR7990a-1	102	sly-miR7990a-1	uucaaaugaucguaacuuuggccu	24	79-102	stu-miR7990a	0	0
	sly-miR7990a-2	211	sly-miR7990a-2	uucaaaugaucguaacuuuggccu	24	133-156	stu-miR7990a	0	0
	sly-miR7990a-3	219	sly-miR7990a-3	uucaaaugaucguaacuuuggccu	24	128-151	stu-miR7990a	1	0
Sly-MIR7992	sly-miR7992	208	sly-miR7992-3p	ugucuagaugugcacuccaaagu	23	172-194	stu-miR7992-3p	2	0
			sly-miR7992-5p	aguacacauccagacacu	18	24-41	stu-miR7992-5p	3	0
Sly-MIR7993	sly-miR7993a	218	sly-miR7993a	auauuuuauuguuuuacuuuacu	24	156-179	stu-miR7993a	1	0
Sly-MIR7997	sly-miR7997a	128	sly-miR7997a	augcugcucggacucuuaaaa	21	6-26	stu-miR7997a	0	0
Sly-MIR8001	sly-miR8001a	139	sly-miR8001a	uccuggggauuaguauaaaauuc	24	34-57	stu-miR8001a	0	0
	sly-miR8001b-1	132	sly-miR8001b-1-3p	acuuuuauacuaauucccagga	22	73-94	stu-miR8001b-3p	4	0
			sly-miR8001b-1-5p	auggggauuaguauaaaauuugc	24	28-51	stu-miR8001b-5p	0	0
	sly-miR8001b-2	90	sly-miR8001b-2-5p	auggggauuaguauaaaauuugc	24	28-51	stu-miR8001b-5p	1	0
Sly-MIR8006	sly-miR8006-1	243	sly-miR8006-1-3p	ugcccugccguccaaaaacuaga	23	211-233	stu-miR8006-3p	1	0
			sly-miR8006-1-5p	uaguuuuuggauuacagagacacc	24	14-37	stu-miR8006-5p	4	0
	sly-miR8006-2	184	sly-miR8006-2-5p	uaguuuuugaacgacaggggacacc	24	38-61	stu-miR8006-5p	1	0
Sly-MIR8007	sly-miR8007a	149	sly-miR8007a-5p	auguggcacuuuucggauuucgag	24	75-98	stu-miR8007a-5p	1	0
	sly-miR8007b	270	sly-miR8007b-5p	augugacacuuuuggauuucgag	24	24-47	stu-miR8007b-5p	1	0
			sly-miR8007b-3p	aaaaacgaaaagugcca	17	227-243	stu-miR8007b-3p	2	0
Sly-MIR8008	sly-miR8008a-1	54	sly-miR8008a-1	auuuccagaaaaagcgacggacag	23	1-23	stu-miR8008a	0	0
			sly-miR8008a-2-3p	auuacagaaaagcgacgga	20	166-185	stu-miR8008a	1	0
	sly-miR8008a-2	188	sly-miR8008a-2-5p	auuuccagaaaagugacggacagu	24	101-124	stu-miR8008a	1	0
			sly-miR8008b-1-3p	caaggaaaagcgacagacauu	20	155-174	stu-miR8008b	4	0
	sly-miR8008b-1	223	sly-miR8008b-1-5p	aaaccagaaaagcgacggaca	22	86-107	stu-miR8008b	0	0
	sly-miR8008b-2	192	sly-miR8008b-2-3p	aaaccagaaaagcgacagacag	23	72-94	stu-miR8008b	1	0
			sly-miR8008b-2-5p	aaaaaauccgacggacag	17	14-30	stu-miR8008b	2	0
	sly-miR8008b-3	193	sly-miR8008b-3-3p	aaaccagaaaagcgacggaca	22	136-157	stu-miR8008b	0	0
			sly-miR8008b-3-5p	aauccagaaaagcgacugaca	22	5-26	stu-miR8008b	2	0
Sly-MIR8011	sly-miR8011a-1	100	sly-miR8011a-1-3p	acaaaaagaagccucacacaacu	24	72-94	stu-miR8011a-3p	1	0
	sly-miR8011a-2	168	sly-miR8011a-2-5p	uugugugaggucucuuuuuuuuu	23	40-62	stu-miR8011a-5p	1	0

			sly-miR8011a-2-3p	aauaaaaagaagucucacgcaacu	24	107-130	stu-miR8011a-3p	2	0
Sly-MIR8013	sly-miR8013	216	sly-miR8013	agaagaaaaacacaccgucagaag	24	44-67	stu-miR8013	2	0
Sly-MIR8019	sly-miR8019-1	283	sly-miR8019-1-3p	aaaagaauagaccugguuugacuug	24	33-56	stu-miR8019-3p	0	0
			sly-miR8019-1-5p	aggaaaggagguuuauucuuuuug	23	233-255	stu-miR8019-5p	4	0
	sly-miR8019-2	262	sly-miR8019-2-3p	aaaagaauagaccugguuugacuug	24	22-45	stu-miR8019-3p	0	0
			sly-miR8019-2-5p	gaaagaggucuuuuuuuu	19	188-206	stu-miR8019-5p	3	0
Sly-MIR8020	sly-miR8020	123	sly-miR8020	aauuucuuagaguuuuuuuuuu	24	20-43	stu-miR8020	0	0
Sly-MIR8021	sly-miR8021-1	219	sly-miR8021-1	auucaaggcucuaacucgagaccu	24	1-24	stu-miR8021	0	0
	sly-miR8021-2	233	sly-miR8021-2	auucaaggcucuaacucgagaccu	24	4-27	stu-miR8021	0	0
	sly-miR8021-3	232	sly-miR8021-3	auucaaggcucuaacucgagaccu	24	8-31	stu-miR8021	0	0
Sly-MIR8025	sly-miR8025	137	sly-miR8025-3p	uuuaauugcaugccgacugugug	23	115-137	stu-miR8025-3p	2	0
			sly-miR8025-5p	acacacuacacaucauuuuuuuu	24	28-51	stu-miR8025-5p	3	0
Sly-MIR8032	sly-miR8032d	311	sly-miR8032d-3p	agugugaguuggugcgauuagg	22	117-138	stu-miR8032d-3p	0	0
Sly-MIR8033	sly-miR8033	108	sly-miR8033-3p	auuucugcagcuuuggaaauu	20	71-90	stu-miR8033-3p	4	0
			sly-miR8033-5p	uuccaaagcugcagaaugagu	22	21-42	stu-miR8033-5p	0	0
Sly-MIR8038	sly-miR8038a	136	sly-miR8038a-3p	uucagcuuacucacuugga	19	94-112	stu-miR8038a-3p	2	0
			sly-miR8038a-5p	ccuugugaguaaguugaucuc	22	26-47	stu-miR8038a-5p	0	0
Sly-MIR8039	sly-miR8039-1	181	sly-miR8039-1	uuuccuaucugaacuaugacc	21	72-92	stu-miR8039	1	0
	sly-miR8039-2	159	sly-miR8039-2	uuuccuaucggaacuaucacc	21	57-77	stu-miR8039	1	0
Sly-MIR8045	sly-miR8045-1	95	sly-miR8045-1	auugauaguugagguguguuu	21	75-95	stu-miR8045	0	0
	sly-miR8045-2	186	sly-miR8045-2-3p	ugauaguuuagguuug	16	139-154	stu-miR8045	2	0
			sly-miR8045-2-5p	auugauaguugagguguguuu	21	76-96	stu-miR8045	0	0
Sly-MIR8051	sly-miR8051	257	sly-miR8051-5p	uaguaugguagaaagauuca	20	122-141	stu-miR8051-5p	0	0
Sly-MIR8172	sly-miR8172	92	sly-miR8172	auggaucucuaagaggagau	21	11-31	ath-miR8172	0	0
Sly-MIR8175	sly-miR8175	171	sly-miR8175	gaucuccggaacgcgcgcca	20	27-46	ath-miR8175	0	0
Sly-MIR827	sly-miR827	108	sly-miR827-3p	uuagaugaacaacaacaaca	21	78-98	nta-miR827	0	0
			sly-miR827-5p	uuuguugauggucaucuauc	21	12-32	stu-miR827-5p	0	0
Sly-MIR828	sly-miR828a	119	sly-miR828a	ucuugcucaaaugaguauucca	22	28-49	vvi-miR828a	0	0
Sly-MIR845	sly-miR845b	285	sly-miR845b-5p	ucaauugguaucaagacga	19	206-224	aly-miR845b-5p	0	0
Sly-MIR9471	sly-miR9471a	180	sly-miR9471a-3p	uuggcugagugagcaucacgg	21	130-150	sly-miR9471a-3p	0	0
			sly-miR9471a-5p	caggugcucacucagcuaaua	21	43-63	sly-miR9471a-5p	0	0
	sly-miR9471b	147	sly-miR9471b-3p	uuggcugagugagcaucacug	21	108-128	sly-miR9471b-3p	0	0
			sly-miR9471b-5p	gaggugcucacucagcuaaua	21	21-41	sly-miR9471b-5p	0	0
Sly-MIR9472	sly-miR9472	180	sly-miR9472-3p	uucacaauucucugcugaaaaa	21	141-161	sly-miR9472-3p	0	0

			sly-miR9472-5p	uuucaguagacguugugaaua	21	23-43	sly-miR9472-5p	0	0
Sly-MIR9473	sly-miR9473-1	120	sly-miR9473-1-5p	uggcuguaaaucuaaacucgu	21	12-32	sly-miR9473-5p	0	0
			sly-miR9473-1-3p	aaacgaguucagauuuacagc	21	90-100	sly-miR9473-3p	0	0
	sly-miR9473-2	118	sly-miR9473-2-5p	acgaguuuagauuuacagcca	21	111-91	sly-miR9473-5p	0	0
			sly-miR9473-2-3p	gcuguaaaucugaacucguuu	21	33-13	sly-miR9473-3p	0	0
Sly-MIR9476	sly-miR9476-1	94	sly-miR9476-1-3p	aaaaagaugcaggacuagacc	21	63-83	sly-miR9476-3p	0	0
			sly-miR9476-1-5p	ucuaguccugcaucuuuuuuu	21	14-34	sly-miR9476-5p	0	0
	sly-miR9476-2	94	sly-miR9476-2-3p	aaaaagaugcaggacuagacc	21	63-83	sly-miR9476-3p	0	0
			sly-miR9476-2-5p	ucuaguccugcaucuuuuuuu	21	14-34	sly-miR9476-5p	0	0
Sly-MIR9478	sly-miR9478-5p	211	sly-miR9478-3p	uucgaugacauuuugagccu	21	174-194	sly-miR9478-3p	0	0
			sly-miR9478-5p	gcuuuuuauaguagaucgaacu	22	20-41	sly-miR9478-5p	0	0

Tabela S6 – Caracterização das famílias e sequências maduras e precursoras de miRNAs em *Solanum pennellii*. Tamanho (Tam)

Família	miRNA precursor	Tamanho do miRNA precursor	miRNA maduro	Sequência do miRNA maduro	Tamanho do miRNA maduro	Localização do do maduro no precursor	miRNA maduro ortólogo	Número de mismatches com o miRNA ortólogo	Número de gaps com o miRNA ortólogo
Spe-MIR1128	spe-miR1128	301	spe-miR1128-5p	uacuacuccuccgucuccaaa	21	91-111	ssp-miR1128	0	0
Spe-MIR1446	spe-miR1446	139	spe-miR1446-5p	ugaacucucuccucaauggc	22	26-47	nta-miR1446	0	0
	spe-miR1446a	96	spe-miR1446a-5p	uucugaacucucuccuca	20	8-27	ptc-miR1446a	0	0
Spe-MIR156	spe-miR156-1	149	spe-miR156-1-5p	uugacagaagauagagagcac	21	22-42	sly-miR156a	0	0
			spe-miR156-1-3p	gcucucuaugcuuccgucauc	21	111-131	stu-miR156d-3p	1	0
	spe-miR156-10	108	spe-miR156-10-5p	ugacagaagagagugagcaca	21	10-30	rco-miR156a	0	0
			spe-miR156-10-3p	gcucacugcucuaucugucacc	22	80-101	sly-miR156d-3p	0	0
	spe-miR156-11	157	spe-miR156-11-5p	ugacagaaggcgugagcaca	21	35-55	rco-miR156a	2	0
			spe-miR156-11-3p	gcucacugcucuaucuucauc	22	100-121	sly-miR156d-3p	2	0
	spe-miR156-12	91	spe-miR156-12-5p	ugacagaagagagugagcaca	21	3-23	rco-miR156a	0	0
			spe-miR156-12-3p	gcucacuucuaucugucagc	22	69-90	zma-miR156d-3p	1	0
	spe-miR156-2	101	spe-miR156-2-5p	uugacagaagauagagagcac	21	1-21	sly-miR156a	0	0
			spe-miR156-2-3p	gcucucuaugcuucugucauc	21	81-101	stu-miR156d-3p	0	0
	spe-miR156-3	188	spe-miR156-3-5p	uugacagaagauagagagcac	21	52-72	sly-miR156a	0	0
			spe-miR156-3-3p	gcucuuuauucucugucauc	21	117-137	mtr-miR156h-3p	0	0
	spe-miR156-4	86	spe-miR156-4-5p	uugacagaagauagagagcac	21	2-22	sly-miR156a	0	0
			spe-miR156-4-3p	gcucuuuauucucugucau	20	6-86	mtr-miR156h-3p	1	0
	spe-miR156-5	86	spe-miR156-5-5p	uugacagaagauagagagcac	21	2-22	sly-miR156a	0	0
			spe-miR156-5-3p	gcucuuuauucucugucac	20	6-86	mtr-miR156h-3p	2	0
	spe-miR156-6	108	spe-miR156-6-5p	uugacagaagauagagagcac	21	14-34	sly-miR156a	0	0
			spe-miR156-6-3p	gcucucuaucucugucauca	22	78-99	stu-miR156d-3p	1	0
	spe-miR156-7	97	spe-miR156-7-5p	ugacagaagagagugagcaca	21	4-24	rco-miR156a	0	0
			spe-miR156-7-3p	gcuuacucucuaucugucacc	21	76-96	sly-miR156e-3p	0	0
	spe-miR156-8	92	spe-miR156-8-5p	ugacagaagagagugagcaca	21	4-24	rco-miR156a	0	0
			spe-miR156-8-3p	gcucacuucucuaucugucacc	22	70-91	sly-miR156d-3p	1	0
	spe-miR156-9	101	spe-miR156-9-5p	ugacagaagagagugagcaca	21	9-29	rco-miR156a	0	0
			spe-miR156-9-3p	gcucacugcucuaucugucacc	22	75-96	sly-miR156d-3p	0	0

Spe-MIR160	spe-miR160-1	88	spe-miR160-1-5p	ugccuggcucccuguaugccaau	23	4-26	mes-miR160h	0	0
			spe-miR160-1-3p	gcguaugaggagccaagcaua	21	68-88	stu-miR160a-3p	0	0
	spe-miR160-2	116	spe-miR160-2-5p	ugccuggcuccuuguaugccaau	23	19-41	mes-miR160h	1	0
			spe-miR160-2-3p	gcauucuaggagcuaagcaug	21	80-100	zma-miR160b-3p	4	0
	spe-miR160a	103	spe-miR160a-5p	ugccuggcucccuguaugcca	21	12-32	sly-miR160a	0	0
			spe-miR160a-3p	gcguaaaggagccaagcaua	21	73-93	stu-miR160a-3p	1	0
	spe-miR160c	87	spe-miR160c-5p	ugccuggcucccuggaugcca	21	2-22	tcc-miR160c	0	0
	spe-miR160g-1	95	spe-miR160g-1-5p	ugcuuggcuccucauacgcca	21	7-27	ppt-miR160g	4	0
			spe-miR160g-1-3p	uggcauacaggagcaggca	21	69-89	aau-miR160	0	0
	spe-miR160g-2	95	spe-miR160g-2-5p	ugcuuggcuccuauacgcca	21	8-28	ppt-miR160g	3	0
			spe-miR160g-2-3p	uggcauacaggagcaggca	21	67-87	aau-miR160	0	0
Spe-MIR162	spe-miR162a-1	110	spe-miR162a-1-5p	ggaggcagcggaucaucgauc	21	17-37	stu-miR162a-5p	0	0
			spe-miR162a-1-3p	ucgauaaaccucugcauccag	21	77-97	sly-miR162	0	0
	spe-miR162a-2	130	spe-miR162a-2-5p	ggaggcagcggaucaucgauc	21	19-39	stu-miR162a-5p	0	0
			spe-miR162a-2-3p	ucgauaaaccucugcauccag	21	96-116	sly-miR162	0	0
Spe-MIR164	spe-miR164	98	spe-miR164-5p	uggagaagcagggcacaugcu	21	12-32	stu-miR164-5p	0	0
			spe-miR164-3p	caugugcucuagcuccaggc	21	68-88	stu-miR164-3p	0	0
	spe-miR164a	165	spe-miR164a-5p	uggagaagcagggcacgugca	21	4-24	sly-miR164a-5p	0	0
			spe-miR164a-3p	caugugccuguuuucccauc	21	143-163	sly-miR164a-3p	0	0
	spe-miR164b	112	spe-miR164b-5p	uggagaagcagggcacgugca	21	19-39	sly-miR164b-5p	0	0
			spe-miR164b-3p	cacguguuccuuccaacc	21	92-112	sly-miR164b-3p	0	0
Spe-MIR166	spe-miR166-1	117	spe-miR166-1-5p	agaaugucgucugguucgaga	21	11-31	stu-miR166d-5p	0	0
			spe-miR166-1-3p	ucggaccaggcucauucccc	21	89-109	sly-miR166a	0	0
	spe-miR166-2	107	spe-miR166-2-5p	ggauguuguuggcucgagg	21	13-33	stu-miR166c-5p	0	0
			spe-miR166-2-3p	ucggaccaggcucauucccc	21	77-97	sly-miR166a	0	0
	spe-miR166a-1	146	spe-miR166a-1-3p	ucggaccaggcucauucccc	21	103-123	sly-miR166a	0	0
	spe-miR166a-2	93	spe-miR166a-2-3p	ucggaccaggcucauucccc	21	69-89	sly-miR166a	0	0
	spe-miR166a-3	174	spe-miR166a-3-5p	ggauguugucuggcucgaag	21	18-38	stu-miR166a-5p	1	0
			spe-miR166a-3-3p	ucggaccaggcucauucccc	21	140-160	sly-miR166a	0	0
	spe-miR166c	187	spe-miR166c-5p	gggauguugucuggcucgaca	21	21-41	sly-miR166c-5p	0	0
			spe-miR166c-3p	ucggaccaggcucauuccuc	21	145-165	sly-miR166c-3p	0	0
Spe-MIR167	spe-miR167-1	85	spe-miR167-1-5p	ugaagcugccagcaugaucua	21	7-27	sly-miR167a	0	0
			spe-miR167-1-3p	gaucaugggcagcauccacc	20	61-80	stu-miR167b-3p	0	0
	spe-miR167-2	86	spe-miR167-2-5p	ugaagcugccagcaugaucua	21	7-27	sly-miR167a	0	0

			spe-miR167-2-3p	gaucaugugguugcuucacc	20	62-81	stu-miR167d-3p	0	0
	spe-miR167-3	84	spe-miR167-3-5p	ugaagcugccagcaugaucua	21	2-22	sly-miR167a	0	0
			spe-miR167-3-3p	ggucaugcucggacagccucacu	23	62-84	stu-miR167c-3p	0	0
	spe-miR167a	93	spe-miR167a-5p	ugaagcugccagcaugaucua	21	8-28	sly-miR167a	0	0
			spe-miR167a-3p	gaucauguggcagccucacc	20	69-88	stu-miR167a-3p	0	0
	spe-miR167h	196	spe-miR167h-3p	aucaugcuggcagcuucaacugau	24	117-140	gma-miR167h	1	0
Spe-MIR168	spe-miR168a	186	spe-miR168a-5p	ucgcuuggugcaggucgggac	21	22-42	sly-miR168a-5p	0	0
			spe-miR168a-3p	ccugccuugcaucaacugaau	21	147-167	sly-miR168a-3p	0	0
	spe-miR168b	170	spe-miR168b-5p	ucgcuuggugcaggucgggac	21	16-36	sly-miR168b-5p	0	0
			spe-miR168b-3p	cccgccuugcaucaacugaau	21	131-151	sly-miR168b-3p	0	0
Spe-MIR169	spe-miR169-1	155	spe-miR169-1-5p	cagccaaggauagacuugccgg	21	44-64	sly-miR169a	0	0
			spe-miR169-1-3p	ccggcaaguuguuuuuggcuaau	22	92-113	gma-miR169l-3p	2	0
	spe-miR169-2	190	spe-miR169-2-5p	uagccaaggauagacuugccua	21	46-66	sly-miR169d	0	0
			spe-miR169-2-3p	gcaaguuauccuggcuauc	19	126-144	stu-miR169e-3p	0	0
	spe-miR169-3	164	spe-miR169-3-5p	uagccaagaugacuugccug	21	43-63	sly-miR169b	1	0
			spe-miR169-3-3p	gcaggucaucuuuagcuaacu	21	103-123	stu-miR169d-3p	0	0
	spe-miR169-4	192	spe-miR169-4-5p	uagccaaggauagacuugccug	21	51-71	sly-miR169b	0	0
			spe-miR169-4-3p	gcaggucaucuuuagcuaacu	21	121-141	stu-miR169d-3p	0	0
	spe-miR169-5	224	spe-miR169-5-5p	cagccaaggauagacuugccga	21	58-78	sly-miR169c	0	0
			spe-miR169-5-3p	ggcaagugguccuuggcuaaca	21	153-173	ata-miR169d-3p	1	0
	spe-miR169a-1	147	spe-miR169a-1-5p	cagccaaggauagacuugccgg	21	41-61	sly-miR169a	0	0
			spe-miR169a-1-3p	ggcaaguuguucuuggcuaaua	21	91-111	zma-miR169a-3p	1	0
	spe-miR169a-2	161	spe-miR169a-2-5p	cagccaaggauagacuugccgg	21	49-69	sly-miR169a	0	0
	spe-miR169c	98	spe-miR169c-5p	cagccaaggauagacuugccga	21	20-40	sly-miR169c	0	0
	spe-miR169e	179	spe-miR169e-5p	uagccaaggauagacuugccuuu	22	48-69	sly-miR169e-5p	0	0
			spe-miR169e-3p	uggcaagcaucuuuggcgacu	21	119-139	sly-miR169e-3p	0	0
Spe-MIR170/171	spe-miR171	110	spe-miR171-5p	ugggauguugugugguucaa	21	10-30	mdm-miR171o	1	0
			spe-miR171-3p	ugauugagccgugccaauauc	21	72-92	sly-miR171a	0	0
	spe-miR171-1	81	spe-miR171-1-5p	agauauuggugcgguucaauu	21	1-21	stu-miR171d-5p	0	0
			spe-miR171-1-3p	uaauugagccgugccaauauc	21	59-79	aqc-miR171f	0	0
	spe-miR171-2	75	spe-miR171-2-5p	uaauuggugcgguucaaugaga	21	1-21	sly-miR171c	0	0
			spe-miR171-2-3p	ugauugagccgcgccaauau	20	56-75	ath-miR171a-3p	0	0
	spe-miR171-3	92	spe-miR171-3-5p	gauauuggcacggcucaauu	21	8-27	zma-miR171b-5p	3	0

			spe-miR171-3-3p	uaauugaaccgcaccaauauc	21	65-85	aqc-miR171c	1	0
	spe-miR171-4	86	spe-miR171-4-5p	agauauugaugcgguucaauc	21	2-22	ath-miR171c-5p	1	0
			spe-miR171-4-3p	uugagccgcgucaauaucucu	21	66-86	sly-miR171e	0	0
	spe-miR171-5	112	spe-miR171-5-5p	uguuggauggcucaaucaaa	21	21-41	ata-miR171b-5p	1	0
			spe-miR171-5-3p	ugauugagccgugccaauauc	21	74-94	sly-miR171a	0	0
	spe-miR171-6	134	spe-miR171-6-5p	uauuggccugguucacucaga	21	37-57	stu-miR171a-5p	0	0
			spe-miR171-6-3p	ugauugagccgugucaauauc	21	86-106	stu-miR171c-3p	0	0
	spe-miR171-7	112	spe-miR171-7-5p	agugauauugguucggcucauc	22	21-42	ptc-miR171l-5p	2	0
			spe-miR171-7-3p	gugagccgaaccaauaucacg	21	71-91	osa-miR171h	1	0
	spe-miR171a	89	spe-miR171a-5p	uauuggccugguucacucaga	21	1-21	stu-miR171a-5p	0	0
			spe-miR171a-3p	ugauugagccgugccaauau	20	70-89	sly-miR171a	1	0
	spe-miR171e-1	127	spe-miR171e-1-5p	cgauguuggugagguucaauc	21	24-44	mtr-miR171e-5p	0	0
			spe-miR171e-1-3p	agauugagccgcgccaauauc	21	85-105	mtr-miR171e-3p	0	0
Spe-MIR172	spe-miR171e-2	100	spe-miR171e-2-5p	cgauguuggugagguucaauc	21	9-29	mtr-miR171e-5p	0	0
			spe-miR171e-2-3p	agauugagccgcgccaauauc	21	71-91	mtr-miR171e-3p	0	0
	spe-miR172-1	159	spe-miR172-1-5p	guagcaucaucaagauucua	21	8-28	mtr-miR172c-5p	1	0
			spe-miR172-1-3p	agaaucuugaugaugcugcau	21	120-140	sly-miR172a	0	0
	spe-miR172-2	186	spe-miR172-2-5p	gcagcaucaucaagauucuca	21	29-49	lus-miR172j	1	0
			spe-miR172-2-3p	ugaaucuugaugaugcuacau	21	141-161	vvi-miR172a	0	0
	spe-miR172-3	169	spe-miR172-3-5p	gcaucaucaucaagauucaca	21	21-41	stu-miR172e-5p	0	0
			spe-miR172-3-3p	ggaaucuugaugaugcugcau	21	130-150	nta-miR172j	0	0
	spe-miR172-4	169	spe-miR172-4-5p	gcagcaucaucaagauuccca	21	22-42	lus-miR172j	0	0
			spe-miR172-4-3p	ugugaaucuugaugauguugcau	23	129-151	vvi-miR172d	2	0
	spe-miR172-5	132	spe-miR172-5-5p	gcagcaucaucaagauuccca	21	21-41	lus-miR172j	0	0
			spe-miR172-5-3p	ugaaucuugaugauguccac	21	93-113	osa-miR172c	1	0
	spe-miR172-6	105	spe-miR172-6-5p	gcagcaccuuuagauucaca	21	12-32	bra-miR172b-5p	0	0
			spe-miR172-6-3p	agaaucuugaugaugcugcau	21	75-95	sly-miR172a	0	0
	spe-miR172-7	105	spe-miR172-7-5p	gcagcacuuuagauucuca	21	19-39	bra-miR172b-5p	2	0
			spe-miR172-7-3p	ugaaucuugaugaugcugcau	21	70-90	gma-miR172k	0	0
	spe-miR172-8	110	spe-miR172-8-5p	gcagcaucaucaagauucaca	21	21-41	stu-miR172b-5p	1	0
			spe-miR172-8-3p	ugagaaucuuauagugcugcau	23	70-92	vvi-miR172d	3	0
	spe-miR172a	142	spe-miR172a-5p	guagcauauucaagauucaca	21	21-41	stu-miR172a-5p	0	0
			spe-miR172a-3p	agaaucuugaugaugcugcau	21	104-124	sly-miR172a	0	0

	spe-miR172d	94	spe-miR172d-5p	ggagcaucaucaagauucaca	21	2-22	mtr-miR172d-5p	0	0
			spe-miR172d-3p	ggaauucugaugucgucag	21	74-94	stu-miR172d-3p	0	0
Spe-MIR1886	spe-miR1886-1	131	spe-miR1886-1-5p	augagauggaauuaggguuaggac	24	39-62	stu-miR1886i-5p	3	0
			spe-miR1886-1-3p	auuuuacguugauuucacucaug	24	68-91	stu-miR1886h	0	0
	spe-miR1886-2	116	spe-miR1886-2-5p	augguaucgugagaugaaucagc	24	24-47	stu-miR1886f	0	0
			spe-miR1886-2-3p	auuuuacgcugauuccaucucaug	24	61-84	stu-miR1886h	2	0
	spe-miR1886h-1	173	spe-miR1886h-1-3p	auuuuacguugauuucacucaug	24	89-112	stu-miR1886h	3	0
	spe-miR1886h-2	97	spe-miR1886h-2-5p	auuuuacguugauuucacucaug	24	12-35	stu-miR1886h	0	0
Spe-MIR1917	spe-miR1917-1	214	spe-miR1917-1-5p	auuaauaaagagugcuaaagu	21	45-65	sly-miR1917	0	0
	spe-miR1917-2	136	spe-miR1917-2-5p	auuaauaaagagugcuaaagu	21	27-47	sly-miR1917	0	0
	spe-miR1917-3	201	spe-miR1917-3-5p	auuaauaaagagugcuaaagu	21	44-64	sly-miR1917	0	0
	spe-miR1917-4	240	spe-miR1917-4-5p	auuaauaaagagugcuaaagu	21	22-42	sly-miR1917	0	0
Spe-MIR1918	spe-miR1918	197	spe-miR1918-5p	uguuggugagaguucgauucuc	22	51-72	sly-miR1918	0	0
Spe-MIR1919	spe-miR1919	177	spe-miR1919-5p	ugucgcagaugacuucgccc	21	47-67	stu-miR1919-5p	0	0
			spe-miR1919-3p	acgagagucaucugacagg	21	113-133	stu-miR1919-3p	0	0
	spe-miR1919c	160	spe-miR1919c-5p	ugucgcagaugacuucgccc	21	34-54	stu-miR1919-5p	0	0
			spe-miR1919c-3p	acgagagucaucugacagg	21	110-130	sly-miR1919c-3p	0	0
Spe-MIR2111	spe-miR2111a	71	spe-miR2111a-5p	uaaucugcauccagguuuua	21	4-24	ath-miR2111a-5p	0	0
			spe-miR2111a-3p	guccuuaggauccagauuauc	21	51-71	lja-miR2111-3p	1	0
Spe-MIR319	spe-miR319-1	187	spe-miR319-1-5p	gagcucucuccgguccaguc	20	10-29	zma-miR319a-5p	3	0
			spe-miR319-1-3p	uuggacugaaggagcucccu	21	161-181	sly-miR319b	0	0
	spe-miR319-2	185	spe-miR319-2-5p	agagcuuccuuuaguccacuc	21	10-30	mtr-miR319a-5p	1	0
			spe-miR319-2-3p	uuggacugaaggagcucccu	21	159-179	sly-miR319b	0	0
	spe-miR319-3	179	spe-miR319-3-5p	aggaaacuguuuaguccaacc	21	2-22	stu-miR319-5p	0	0
			spe-miR319-3-3p	uuggacugaaggguucccuuc	21	159-179	stu-miR319-3p	0	0
	spe-miR319-4	197	spe-miR319-4-3p	uuggacugaaggguucccuuc	21	167-187	stu-miR319-3p	1	0
	spe-miR319a	170	spe-miR319a-5p.1	agagcuuccuucaguccacac	21	1-21	stu-miR319a-5p	1	0
			spe-miR319a-5p.2	uugcugccgacucauucca	22	44-65	ppe-miR319b	2	0
			spe-miR319a-3p	cuuggacugaaggagcucc	20	151-170	sly-miR319a	0	0
	spe-miR319c-1	177	spe-miR319c-1-3p	uuggacugaaggagcuccu	20	158-177	sly-miR319c-3p	1	0
	spe-miR319c-2	178	spe-miR319c-2-5p.1	agagcuuccuucagcccacuc	21	5-25	sly-miR319c-5p	0	0
			spe-miR319c-2-5p.2	uagcugccgacucauucca	22	49-70	ppe-miR319b	1	0
			spe-miR319c-2-3p	uuggacugaaggagcuccuu	21	157-177	sly-miR319c-3p	0	0
	spe-miR319c-3	179	spe-miR319c-3-5p	aggaaacuguuuaguccaacc	21	2-22	stu-miR319-5p	0	0

			spe-miR319c-3-3p	cuccaaugaugcaggagcuga	21	115-135	mdm-miR319c	3	0
Spe-MIR3627	spe-miR3627-1	83	spe-miR3627-1-5p	ucgcaggagagauggcacuuac	22	2-23	stu-miR3627-5p	1	0
			spe-miR3627-1-3p	aagugccucugucuucgaca	21	63-83	stu-miR3627-3p	0	0
	spe-miR3627-2	148	spe-miR3627-2-5p	uugucgcaggagagauggcacu	22	34-55	vvi-miR3627-5p	1	0
			spe-miR3627-2-3p	aagugccucugucuucgaca	21	98-118	stu-miR3627-3p	0	0
Spe-MIR390	spe-miR390	110	spe-miR390-5p	aagcucaggaggauagcgcc	21	18-38	sly-miR390b-5p	0	0
			spe-miR390-3p	cgcuauccaucugaguuua	21	76-96	sly-miR390a-3p	0	0
	spe-miR390a	103	spe-miR390a-5p	aagcucaggaggauagcacc	21	18-38	sly-miR390a-5p	0	0
			spe-miR390a-3p	cgcuauccaucugaguuua	21	67-87	sly-miR390a-3p	0	0
Spe-MIR393	spe-miR393	78	spe-miR393-5p	uccaaagggaucgauugaucc	22	2-23	stu-miR393-5p	0	0
			spe-miR393-3p	aucaugugaucucuucggaau	21	58-78	stu-miR393-3p	1	0
Spe-MIR394	spe-miR394-1	203	spe-miR394-1-5p	uuggcauucuguccaccucc	20	51-70	sly-miR394-5p	0	0
			spe-miR394-1-3p	aggugggcauacugucaaca	20	139-158	sly-miR394-3p	0	0
	spe-miR394-2	196	spe-miR394-2-5p	uuggcauucuguccaccucc	20	51-70	sly-miR394-5p	0	0
			spe-miR394-2-3p	aggugggcauacugccaauag	21	124-144	ath-miR394b-3p	0	0
	spe-miR394-3	61	spe-miR394-3-5p	uuggcauucuguccaccucc	20	2-21	sly-miR394-5p	0	0
			spe-miR394-3-3p	agggggccaaagugccaac	20	42-61	stu-miR384-3p	0	0
Spe-MIR395	spe-miR395a	103	spe-miR395a-3p	cugaaguguuugggggaacuuc	22	69-90	sly-miR395a	1	0
	spe-miR395d	100	spe-miR395d-3p	ugaaguguuugggggaacuuu	21	66-86	gma-miR395d	0	0
	spe-miR395g	154	spe-miR395g-3p	uugaaguguuugggggaacuc	21	93-113	mtr-miR395g	0	0
	spe-miR395i	174	spe-miR395i-5p	cugaaguguuuggaggaacuc	21	15-35	aly-miR395i	0	0
Spe-MIR396	spe-miR396-1	122	spe-miR396-1-5p	uuccacagcuuucuugaacuu	21	11-31	stu-miR396-5p	0	0
			spe-miR396-1-3p	guccaagaaagcugugggaaa	21	93-113	stu-miR396-3p	0	0
	spe-miR396-2	131	spe-miR396-2-5p	ucccacagcuuucuuggacuu	21	16-36	ath-miR396b-5p	2	0
			spe-miR396-2-3p	guucaagaaagcuguggaaaa	21	98-118	zma-miR396g-3p	1	0
	spe-miR396a	107	spe-miR396a-5p	uuccacagcuuucuugaacug	21	12-32	sly-miR396a-5p	0	0
			spe-miR396a-3p	guucaauaaagcugugggaag	21	81-101	sly-miR396a-3p	0	0
Spe-MIR397	spe-miR397	116	spe-miR397-5p	auugagugcagcguugaugac	21	19-39	stu-miR397-5p	0	0
			spe-miR397-3p	caucaacgcucacucgauca	21	79-99	stu-miR397-3p	1	0
Spe-MIR398	spe-miR398	93	spe-miR398-5p	agggaacauugagaucacauug	21	3-23	hbr-miR398	4	0
			spe-miR398-3p	uguguucucaggucgccccug	21	73-93	stu-miR398a-3p	1	0
	spe-miR398a	90	spe-miR398a-5p	ggguugauuugagaacauaug	21	1-21	stu-miR398a-5p	0	0
			spe-miR398a-3p	uauguucucaggucgccccu	20	71-90	stu-miR398a-3p	0	0

	spe-miR398b-1	82	spe-miR398b-1-5p	gagugugccuaagaacacaggu	22	2-23	stu-miR398b-5p	1	0
			spe-miR398b-1-3p	uuguguucucaggucaccccu	21	62-82	stu-miR398b-3p	0	0
	spe-miR398b-2	218	spe-miR398b-2-5p	gagugugccuggaacacaggu	22	67-88	stu-miR398b-5p	3	0
			spe-miR398b-2-3p	uuguguucucaggucaccccu	21	133-153	stu-miR398b-3p	0	0
Spe-MIR399	spe-miR399-1	175	spe-miR399-1-5p	gggcuacgcucuaauuggcaug	21	42-62	stu-miR399a-5p	1	0
			spe-miR399-1-3p	ugccaaaggagaguugcccug	21	115-135	ath-miR399b	0	0
	spe-miR399-2	107	spe-miR399-2-3p	ugccaaaggagaguugcccua	21	66-86	sly-miR399	0	0
	spe-miR399-3	103	spe-miR399-3-5p	gggcuacucucuaauuggcaug	21	21-41	stu-miR399a-5p	0	0
			spe-miR399-3-3p	cgccaaaggagagcugcccug	21	64-84	nta-miR399g	0	0
	spe-miR399-4	103	spe-miR399-4-5p	gggcuacucucuaauuggcaug	21	21-41	stu-miR399a-5p	0	0
			spe-miR399-4-3p	cgccaaaggagagcugcccug	21	64-84	nta-miR399g	0	0
	spe-miR399-5	103	spe-miR399-5-5p	gggcuacucucuaauuggcaug	21	21-41	stu-miR399a-5p	0	0
			spe-miR399-5-3p	cgccaaaggagagcugcccug	21	64-84	nta-miR399g	0	0
	spe-miR399-6	103	spe-miR399-6-5p	gggcuacucucuaauuggcaug	21	21-41	stu-miR399a-5p	0	0
			spe-miR399-6-3p	cgccaaaggagagcugcccug	21	64-84	nta-miR399g	0	0
	spe-miR399-7	258	spe-miR399-7-5p.1	ggacuacucucuaauuggcaug	21	28-48	stu-miR399a-5p	1	0
			spe-miR399-7-5p.2	cgccaaaggaaugcugcacug	21	71-91	stu-miR399j-3p	3	0
			spe-miR399-7-3p	ugccaaaggagaguugcccug	21	210-230	ath-miR399b	0	0
	spe-miR399-8	216	spe-miR399-8-5p	cagggcaauucuccuauuggca	21	59-79	ata-miR399b-5p	1	0
			spe-miR399-8-3p	ugccaaaggagaaugcacug	21	134-154	osa-miR399a	1	0
	spe-miR399-9	90	spe-miR399-9-3p	ugccaaaggagauuugcccua	21	63-83	sly-miR399	1	0
	spe-miR399a-1	92	spe-miR399a-1-5p	gggcuacucucuguuggcaug	21	16-36	stu-miR399a-5p	1	0
			spe-miR399a-1-3p	ugccaaaggagagcugcccug	21	59-79	stu-miR399a-3p	0	0
	spe-miR399a-2	103	spe-miR399a-2-5p	gggcuacucucuaauuggcaug	21	21-41	stu-miR399a-5p	0	0
			spe-miR399a-2-3p	ugccaaaggagagcugcccug	21	64-84	stu-miR399a-3p	0	0
	spe-miR399d	187	spe-miR399d-3p	ugccaaagaagauuugccccg	21	116-136	ptc-miR399d	0	0
	spe-miR399r-1	123	spe-miR399r-1-3p	ugccaaagaagauuugccccg	21	82-102	mtr-miR399r	0	0
	spe-miR399r-2	126	spe-miR399r-2-3p	ugccaaagaagauuugccccg	21	86-106	mtr-miR399r	0	0
Spe-MIR403	spe-miR403-1	112	spe-miR403-1-5p	cguuugugcgugaaucaacg	21	21-41	sly-miR403-5p	1	0
			spe-miR403-1-3p	cuagauucacgcacaaacucg	21	74-94	sly-miR403-3p	1	0
	spe-miR403-2	112	spe-miR403-2-5p	aguuuugugcgugaaucaagca	21	21-41	sly-miR403-5p	1	0
			spe-miR403-2-3p	uuagauucacgcacaaacgcg	21	74-94	ath-miR403-3p	1	0
Spe-MIR408	spe-miR408	128	spe-miR408-5p	caggaagaggcagugcaugg	21	30-50	lja-miR408	1	0
			spe-miR408-3p	ugcucuggcuguccccgucu	21	80-100	aqc-miR408	4	0

	spe-miR408b	88	spe-miR408b-5p	acggggacgagccagagcaug	21	10-30	stu-miR408b-5p	1	0
			spe-miR408b-3p	ugcacugccuuccuggu	21	61-81	stu-miR408b-3p	0	0
Spe-MIR4376	spe-miR4376	96	spe-miR4376-5p	uacgcaggagagaugaugcug	21	12-32	stu-miR4376-5p	0	0
			spe-miR4376-3p	gcaucauacuccugcauuu	20	68-87	stu-miR4376-3p	0	0
Spe-MIR477	spe-miR477	114	spe-miR477-5p	ugucucuccucaagggcucc	21	18-38	sly-miR477-5p	0	0
			spe-miR477-3p	aguucuuuguaggugagacau	22	79-100	sly-miR477-3p	1	0
	spe-miR477a	70	spe-miR477a-5p	ccucuccucaagggcuucuc	21	2-22	stu-miR477a-5p	0	0
			spe-miR477a-3p	gaagcucagcaggagagcca	22	49-70	stu-miR477a-3p	0	0
	spe-miR477b	72	spe-miR477b-5p	acucuccucaaaaggcuucug	21	2-22	stu-miR477b-5p	0	0
			spe-miR477b-3p	gaggucuuucgagugagaguga	22	51-72	stu-miR477b-3p	0	0
Spe-MIR479	spe-miR479	112	spe-miR479-5p	cgugauauugguucggcucac	22	22-43	ghr-miR479	2	0
			spe-miR479-3p	ugagccgaaccauauccacuc	21	73-93	stu-miR479	0	0
Spe-MIR482	spe-miR482-1	159	spe-miR482-1-5p	cgugagugggggaaagaua	21	45-65	stu-miR482d-5p	1	0
			spe-miR482-1-3p	ucuugccuacaccgcccaugcc	22	95-117	sly-miR482b	0	0
	spe-miR482-2	110	spe-miR482-2-5p	ggagugggugguauugguaaga	21	19-39	stu-miR482b-5p	1	0
			spe-miR482-2-3p	ucuugccaauaccgcccauucc	22	70-91	sly-miR482c	0	0
	spe-miR482a	91	spe-miR482a-5p	ggaauuggugaguuggaaagc	21	12-32	stu-miR482a-5p	2	0
			spe-miR482a-3p	uuuccaaauccaccauuccua	22	60-81	sly-miR482a	0	0
	spe-miR482b	119	spe-miR482b-5p	ggaguggguggaugguaaga	21	19-39	stu-miR482b-5p	0	0
			spe-miR482b-3p	uuaccgauucccccauuccaa	22	81-102	stu-miR482b-3p	0	0
	spe-miR482d	113	spe-miR482d-5p	ggaguggguggauggaaaaa	21	4-24	sly-miR482d-5p	0	0
			spe-miR482d-3p	uuuccauuccaccaugccaa	22	75-96	sly-miR482d-3p	0	0
Spe-MIR5014	spe-miR5014a	260	spe-miR5014a-5p	uguggguggguggaaagauu	21	36-56	sly-miR482e-5p	0	0
			spe-miR5014a-3p	ucuuccuacuccuccauacc	22	111-132	sly-miR482e-3p	0	0
Spe-MIR5174	spe-miR5174d-1	255	spe-miR5174d-1-5p	ucccuccguuucaaaaagauuggc	24	5-28	bdi-miR5174d-5p	1	0
	spe-miR5174d-2	266	spe-miR5174d-2-5p	ucccuccguuucaaaaagauuggc	24	10-33	bdi-miR5174d-5p	1	0
			spe-miR5174d-2-p	cauucuuuuugaacggaaggagu	24	235-258	bdi-miR5174d-3p	5	0
	spe-miR5174d-3	268	spe-miR5174d-3-5p	ucccuccguuucaaaaagauuggc	24	14-37	bdi-miR5174d-5p	1	0
			spe-miR5174d-3-3p	cauucuuuuuaaacggaggagagu	24	235-158	bdi-miR5174d-3p	5	0
Spe-MIR530	spe-miR530	93	spe-miR530-5p	ucugcauuugcaccugcaccu	21	8-28	stu-miR530	0	0
Spe-MIR5300	spe-miR5300	265	spe-miR5300-5p	ucccaguccaggcauuccaac	22	18-39	sly-miR5300	0	0
Spe-MIR5303	spe-miR5303	202	spe-miR5303-5p	uuuuugaagauucgagcaac	21	2-22	sly-miR5303	0	0
	spe-miR5303-1	126	spe-miR5303-1-5p	uuuuggaggauccgagucguacc	24	68-91	stu-miR5303c	4	0

			spe-miR5303-1-3p	uuuuugaagaguucgagcaac	21	99-119	sly-miR5303	0	0
	spe-miR5303-2	118	spe-miR5303-2-5p	uuuuggaggauccaacacguacccc	24	64-87	stu-miR5303c	3	0
			spe-miR5303-2-3p	uuuuugaagaguucgagcaac	21	95-115	sly-miR5303	0	0
	spe-miR5303-3	119	spe-miR5303-3-5p	uuuugaaggauccggcacacacccc	24	65-88	stu-miR5303c	4	0
			spe-miR5303-3-3p	uuuuugaagaguucgagcaac	21	96-116	sly-miR5303	0	0
	spe-miR5303c-1	126	spe-miR5303c-1-3p	acgggugcgguacauuuuug	21	85-105	nta-miR5303c	1	0
	spe-miR5303c-2	119	spe-miR5303c-2-3p	uuuuggagaauccgacacgcacccc	24	65-88	stu-miR5303c	0	0
	spe-miR5303e	129	spe-miR5303e-3p	uuuuggagaauccugacacgggugc	24	70-93	stu-miR5303e	1	0
	spe-miR5303f-1	310	spe-miR5303f-1-5p	auuuuuggagaauccugacacgggu	24	99-122	stu-miR5303f	0	0
	spe-miR5303f-2	133	spe-miR5303f-2-3p	auuuuuggagaauccugacacgggu	24	70-93	stu-miR5303f	0	0
	spe-miR5303f-3	147	spe-miR5303f-3-3p	auuuuuggagaauccugacacgggu	24	77-100	stu-miR5303f	0	0
	spe-miR5303h	341	spe-miR5303h-5p	aacauuuugaagagucugagcaa	21	1-24	stu-miR5303h	0	0
Spe-MIR5368	spe-miR5368	83	spe-miR5368-5p	ggacagucucagguagaca	19	31-49	gma-miR5368	0	0
Spe-MIR6024	spe-miR6024	102	spe-miR6024-5p	agaaacaacacucuaaagga	22	15-36	stu-miR6024-5p	1	0
			spe-miR6024-3p	uuuuagcaagaguuguuuuccc	22	70-91	stu-miR6024-3p	0	0
Spe-MIR6027	spe-miR6027	164	spe-miR6027-5p	auggguaagcacaaggauuaaag	22	22-43	sly-miR6027-5p	0	0
			spe-miR6027-3p	ugaaucuuucgcuauccauaa	22	123-144	sly-miR6027-3p	0	0
Spe-MIR6144	spe-miR6144	188	spe-miR6144-5p	uggcaacuucuucaucauguu	21	18-38	nta-miR6144	2	0
Spe-MIR6440	spe-miR6440b	197	spe-miR6440b-5p	gaguugaucaauuucgagu	21	49-69	ptc-miR6440b	1	0
Spe-MIR6478	spe-miR6478	309	spe-miR6478-5p	ccgaccuuagcucaguuggua	21	113-133	ptc-miR6478	1	0
Spe-MIR7696	spe-miR7696c	239	spe-miR7696c-3p	uuuugaauuagaguacuuga	21	169-189	mtr-miR7696c-3p	1	0
Spe-MIR7980	spe-miR7980b-1	149	spe-miR7980b-1-5p	gagauggaaucauguguuaggacau	24	36-59	stu-miR7980b-3p	0	0
	spe-miR7980b-2	80	spe-miR7980b-2-5p	gagauggaaucauguguuaggacau	24	16-39	stu-miR7980b-3p	0	0
	spe-miR7980b-3	114	spe-miR7980b-3-3p	guccaaacacugauuccaucucac	24	60-83	stu-miR7980b-5p	1	0
	spe-miR7980b-4	116	spe-miR7980b-4-3p	guccaaacacugauuccaucucac	24	61-84	stu-miR7980b-5p	1	0
	spe-miR7980b-5	157	spe-miR7980b-5-5p	guccaaacacugauuccaucucag	24	107-130	stu-miR7980b-5p	1	0
	spe-miR7980b-6	159	spe-miR7980b-6-3p	gagauggaaucauguguuaggacau	24	52-75	stu-miR7980b-3p	0	0
Spe-MIR7981	spe-miR7981	214	spe-miR7981-5p	cuuaacuaaauaggucuaaua	24	9-32	stu-miR7981-5p	3	0
			spe-miR7981-3p	auaggacuuuaguuaaaggc	24	185-208	stu-miR7981-3p	1	0
Spe-MIR7983	spe-miR7983-1	137	spe-miR7983-1-5p	uaaagccuuuagcgacauugguuc	24	39-62	stu-miR7983-5p	1	0
			spe-miR7983-1-3p	acuaaugccgguaaagacuuuac	24	75-98	stu-miR7983-3p	0	0
	spe-miR7983-2	196	spe-miR7983-2-5p	uaaagccuuuagcgacauugguuc	24	89-112	stu-miR7983-5p	1	0
			spe-miR7983-2-3p	acuaaugccgguaaagacuuuac	24	125-148	stu-miR7983-3p	0	0
	spe-miR7983-3	221	spe-miR7983-3-5p	uaaagccuuuagcgaaauugguug	24	101-124	stu-miR7983-5p	2	0

	spe-miR7983-4	140	spe-miR7983-3-3p	acuaaugccgguaaagacuuuaac	24	137-160	stu-miR7983-3p	0	0
			spe-miR7983-4-5p	uaaagucuuuagcgacauugguuc	24	41-64	stu-miR7983-5p	0	0
			spe-miR7983-4-3p	acuaaugccgauaaagacuuuaac	24	77-100	stu-miR7983-3p	1	0
	spe-miR7983-5	141	spe-miR7983-5-5p	uaaagucuuuagcgacauugguuc	24	41-64	stu-miR7983-5p	0	0
			spe-miR7983-5-3p	acuaaugccgauaaagacuuuaac	24	77-100	stu-miR7983-3p	2	0
	spe-miR7983-6	216	spe-miR7983-6-5p	uaaagucuuuagcgacauugguuc	24	99-122	stu-miR7983-5p	0	0
			spe-miR7983-6-3p	acuaaugccgguaaagacuuuagu	24	135-158	stu-miR7983-3p	2	0
	spe-miR7983-7	213	spe-miR7983-7-5p	uaaagccuuuagcgacauugguuc	24	98-121	stu-miR7983-5p	1	0
spe-miR7983-7-3p			acuaaugccgguaaagacuuuaac	24	134-157	stu-miR7983-3p	0	0	
Spe-MIR7984	spe-miR7984	230	spe-miR7984-5p	aucccaaacuuuggaaaugacucu	24	47-70	stu-miR7984b-5p	5	0
			spe-miR7984-3p	caauuucggucaaauguucagauau	24	186-209	stu-miR7984d-3p	1	0
	spe-miR7984b	205	spe-miR7984b-5p	auaucaaacuuuggaaaugaccuu	24	5-28	stu-miR7984b-5p	2	0
			spe-miR7984b-3p	ggucuuucauaaaaauuugguauug	24	159-182	stu-miR7984b-3p	1	0
	spe-miR7984c	319	spe-miR7984c-3p	ccuucuaaaaguuugguaucguaa	24	192-215	stu-miR7984c-3p	0	0
Spe-MIR7987	spe-miR7987	98	spe-miR7987-5p	acacuaguugaucuuauugaugac	24	17-40	stu-miR7987	0	0
Spe-MIR7990	spe-miR7990a-1	110	spe-miR7990a-1-3p	uucaaaugaucguaacuuuggccu	24	84-107	stu-miR7990a	0	0
	spe-miR7990a-2	119	spe-miR7990a-2-3p	uucaaaugaucguaacuuuggccu	24	88-111	stu-miR7990a	0	0
Spe-MIR7992	spe-miR7992	248	spe-miR7992-3p	ugucuagaugugcacuccaaagu	23	191-213	stu-miR7992-3p	2	0
Spe-MIR7993	spe-miR7993a	177	spe-miR7993a-3p	auauuuuauuggguuaacuuaaau	24	137-160	stu-miR7993a	1	0
	spe-miR7993b-1	276	spe-miR7993b-1-5p	uuuaguuuaccacauacaguaugu	24	91-114	stu-miR7993b-5p	2	0
			spe-miR7993b-1-3p	uuauuuuacgugguuuuuuuacu	24	205-228	stu-miR7993b-3p	4	0
	spe-miR7993b-2	239	spe-miR7993b-2-5p	auauuuuauuggguuaacguauuu	24	88-111	stu-miR7993b-3p	2	0
Spe-MIR7997	spe-miR7997a	184	spe-miR7997a-5p	augcugcucggacucuucuaaa	21	36-56	stu-miR7997a	0	0
	spe-miR7997a-1	129	spe-miR7997a-1-5p	augcugcucggacucuucuaaa	21	7-27	stu-miR7997a	0	0
	spe-miR7997a-2	128	spe-miR7997a-2-5p	augcugcucggacucuucuaaa	21	6-26	stu-miR7997a	0	0
Spe-MIR7998	spe-miR7998	231	spe-miR7998-5p	acggaccguagaucaauccacggu	24	95-118	stu-miR7998	1	0
Spe-MIR8001	spe-miR8001a	144	spe-miR8001a-5p	uccuggggauuaguauagaaaauuc	24	38-61	stu-miR8001a	0	0
	spe-miR8001b-1	341	spe-miR8001b-1-3p	ggauuuucauacuaauuccuagga	24	189-212	stu-miR8001b-3p	1	0
	spe-miR8001b-2	90	spe-miR8001b-2-5p	auggggauuaguauagaaaauugc	24	28-51	stu-miR8001b-5p	0	0
Spe-MIR8005	spe-miR8005	170	spe-miR8005-5p	uuuagaguuuaggauuuaguguuu	24	31-54	stu-miR8005a	3	0
			spe-miR8005-3p.1	uuuagaguuuaggguuuaggguuu	24	80-103	stu-miR8005a	2	0
			spe-miR8005-3p.2	uuuaggguuuuaggauuaggcuua	24	115-138	stu-miR8005b-3p	5	0
Spe-MIR8006	spe-miR8006	256	spe-miR8006-3p	uaguuuuuggacggcaggggcacc	24	190-213	stu-miR8006-5p	1	0
Spe-MIR8007	spe-miR8007a	268	spe-miR8007a-5p	augugacacuuuucggauuucgag	24	24-47	stu-miR8007a-5p	2	0

			spe-miR8007a-3p	cgaaaaauggaaaagugccacauaa	24	224-247	stu-miR8007a-3p	0	0
Spe-MIR8008	spe-miR8008-1	127	spe-miR8008-1-5p	aaaccagaaaaagcgacggacaag	24	38-61	stu-miR8008b	2	0
			spe-miR8008-1-3p	auuucagaaaagcgacagacauu	24	103-126	stu-miR8008a	4	0
			spe-miR8008-2-5p	aaacucagaaaagcgacggacaga	24	20-43	stu-miR8008b	2	0
	spe-miR8008-2	154	spe-miR8008-2-3p	auuuccagaaaagugacggacagu	24	85-108	stu-miR8008a	1	0
			spe-miR8008a-1-3p	auuuccagaaaagcgacgaacagu	24	72-95	stu-miR8008a	1	0
			spe-miR8008a-2-5p	auuuccagaaaagcgacgaacagu	24	3-26	stu-miR8008a	1	0
	spe-miR8008b-1	54	spe-miR8008b-1-5p	aaaccagaaaagcgacggacagg	24	1-24	stu-miR8008b	1	0
	spe-miR8008b-2	194	spe-miR8008b-2-5p	aaaccagaaaagcgacagacuua	24	71-94	stu-miR8008b	4	0
	spe-miR8008b-3	115	spe-miR8008b-3-5p	aaaccagaaaagcgacggacauu	24	32-55	stu-miR8008b	1	0
Spe-MIR8011	spe-miR8011	101	spe-miR8011-5p	acucauuuuugucucacaaaaa	22	18-39	stu-miR8011b-5p	0	0
			spe-miR8011-3p	acaaaaagaagucucacacaacu	24	72-95	stu-miR8011a-3p	3	0
	spe-miR8011a-1	168	spe-miR8011a-1-5p	uugugugaggucucuuuuuguuuu	24	40-63	stu-miR8011a-5p	2	0
			spe-miR8011a-1-3p	aauaaaaagaagucucacgcaacu	24	107-130	stu-miR8011a-3p	2	0
	spe-miR8011a-2	122	spe-miR8011a-2-3p	aauaaaaagaagccucacagaacu	24	88-111	stu-miR8011a-3p	1	0
Spe-MIR8013	spe-miR8013	287	spe-miR8013-3p	agaagaaaauccgcuucgucaggag	24	246-269	stu-miR8013	2	0
Spe-MIR8016	spe-miR8016	172	spe-miR8016-3p	auuuuugaauuggaaggccaugug	24	104-127	stu-miR8016	0	0
Spe-MIR8019	spe-miR8019	270	spe-miR8019	uaaagaauagaccugguuugaguug	24	24-47	stu-miR8019-3p	2	0
Spe-MIR8020	spe-miR8020	88	spe-miR8020-5p	aaauucauugaguauguuguuuu	24	2-25	stu-miR8020	0	0
Spe-MIR8021	spe-miR8021	226	spe-miR8021-5p	auucaaggcucaaacucgagaccu	24	1-24	stu-miR8021	0	0
Spe-MIR8024	spe-miR8024	85	spe-miR8024-5p.1	uuggaguuuugaagacuuuagcu	24	2-25	stu-miR8024b	4	0
			spe-miR8024-5p.2	uuggaggauuuuaagacuucagcu	24	31-54	stu-miR8024a-5p	3	0
			spe-miR8024-3p	uuggaggauuugaagacuuaacu	24	62-85	stu-miR8024a-3p	1	0
	spe-miR8024a	243	spe-miR8024a-5p.1	uuuaagaauuugaagacuucagcu	24	1-24	stu-miR8024a-5p	3	0
			spe-miR8024a-5p.2	uuuaaguauuugaagacuuaacu	24	91-114	stu-miR8024a-5p	3	0
			spe-miR8024a-3p.1	uugaauuugaagacuuaucu	24	122-145	stu-miR8024a-3p	4	0
			spe-miR8024a-3p.2	uuggaggauuugaaguuuuaacu	24	184-207	stu-miR8024a-3p	0	0
Spe-MIR8025	spe-miR8025	137	spe-miR8025-5p	acacacuacacaugcauuuaauu	24	28-51	stu-miR8025-5p	3	0
			spe-miR8025-3p	uuuaauugcaugccgagugucug	23	115-137	stu-miR8025-3p	2	0
Spe-MIR8026	spe-miR8026	124	spe-miR8026-3p	auguagagaauaugugguaaccu	24	69-92	stu-miR8026	0	0
Spe-MIR8032	spe-miR8032a	283	spe-miR8032a-5p	uugucgacaugacuccgaagu	22	86-107	stu-miR8032a-5p	3	0
			spe-miR8032a-3p	agugugaguuggugauuagg	22	112-133	stu-miR8032a-3p	1	0
Spe-MIR8036	spe-miR8036	86	spe-miR8036-3p	uauugucuuccgaugccucca	22	65-86	stu-miR8036-3p	0	0
Spe-MIR8038	spe-miR8038a	136	spe-miR8038a-5p	ccuugugaguaaguuggaucuc	22	26-47	stu-miR8038a-5p	1	0

Spe-MIR8039	spe-miR8039	142	spe-miR8039-5p	uuuccuauucugaacuaucacc	21	22-42	stu-miR8039	0	0
Spe-MIR8042	spe-miR8042	158	spe-miR8042-3p	auuagacugaaaugcugaucu	21	110-130	stu-miR8042	1	0
Spe-MIR8045	spe-miR8045	262	spe-miR8045-3p	auugauaguugagguguguuu	21	206-226	stu-miR8045	0	0
Spe-MIR8047	spe-miR8047	208	spe-miR8047-5p	ccauuuuuucgaaauuagacc	21	50-70	stu-miR8047	0	0
Spe-MIR8051	spe-miR8051	334	spe-miR8051-5p	uaguaugguagaaagauuca	20	285-304	stu-miR8051-5p	0	0
Spe-MIR8175	spe-miR8175-1	237	spe-miR8175-1-5p	gaucgccggcaacggcgcca	20	58-77	ath-miR8175	0	0
	spe-miR8175-2	173	spe-miR8175-2-3p	gaucgccggcaacggcgcca	20	101-120	ath-miR8175	0	0
Spe-MIR827	spe-miR827	88	spe-miR827-5p	uuuguugauggucaucuauuc	21	2-22	stu-miR827-5p	0	0
			spe-miR827-3p	uuagaugaacaucaacaaca	21	68-88	nta-miR827	0	0
Spe-MIR828	spe-miR828a	119	spe-miR828a-5p	ucuugcucaaaugaguauucca	22	28-49	gma-miR828a	0	0
			spe-miR828a-3p	agauacucauuuggguaagaag	22	76-97	aly-miR828-3p	1	0
Spe-MIR9469	spe-miR9469	141	spe-miR9469-5p	ccauauaaggagaccaaauuc	21	36-56	sly-miR9469-5p	3	0
			spe-miR9469-3p	auucggucucuuauauggac	21	90-110	sly-miR9469-3p	1	0
Spe-MIR9471b	spe-miR9471b	147	spe-miR9471b-5p	gaggugcucacucagcuaaua	21	21-41	sly-miR9471b-5p	0	0
			spe-miR9471b-3p	uuggcugagugagcaucacug	21	108-128	sly-miR9471b-3p	0	0
Spe-MIR9473	spe-miR9473-1	118	spe-miR9473-1-5p	uggcuguaaaucugaacucgu	21	11-31	sly-miR9473-5p	1	0
	spe-miR9473-2	178	spe-miR9473-2-5p	uggcuguaaaccuaaacucgu	21	29-49	sly-miR9473-5p	1	0
			spe-miR9473-2-3p	aaacgaguucagauuuacagc	21	128-148	sly-miR9473-3p	0	0
Spe-MIR9476	spe-miR9476-1	108	spe-miR9476-1-5p	ucuaguccugcaucucuuuuu	21	22-42	sly-miR9476-5p	1	0
			spe-miR9476-1-3p	aaaaaaugcaggacuagacc	21	71-91	sly-miR9476-3p	1	0
	spe-miR9476-2	110	spe-miR9476-2-5p	ucuaguccugcauuuuuuuuu	21	23-43	sly-miR9476-5p	1	0
			spe-miR9476-2-3p	aaagagaugcaggacuagacc	21	72-92	sly-miR9476-3p	1	0
Spe-MIR9477	spe-miR9477	154	spe-miR9477-5p	uacaguuguucucuuuuccuacc	24	45-68	sly-miR9477-5p	2	0
			spe-miR9477-3p	uugggaaaggaacaacugauagu	24	91-114	sly-miR9477-3p	0	0

Tabela S7 – Distribuição e clusterização dos miRNAs no genoma de *S lycopersicum*.

Pré-miRNAs	Genoma				Presença em cluster
	Cromossomo	Início	Fim	Fita	
sly-miR2604	Chr00	11345900	11346098	-	Cluster sly-miR2604 / miR5282
sly-miR5282	Chr00	11353515	11353642	+	Cluster sly-miR2604 / miR5282
sly-miR396a	Chr00	12537497	12537640	+	Cluster sly-miR396a / miR396g-2
sly-miR396g-2	Chr00	12537504	12537633	-	Cluster sly-miR396a / miR396g-2
sly-miR395a-1	Chr00	17038626	17038776	-	-
sly-miR8172	Chr00	21656381	21656472	+	-
sly-miR7997a	Chr01	597071	597198	-	-
sly-miR8011a-2	Chr01	830954	831121	+	-
sly-miR5532-1	Chr01	1891134	1891296	+	Cluster pvu-miR172c / miR172d
sly-miR8045-1	Chr01	2127610	2127704	-	Cluster pvu-miR172c / miR172d
sly-miR8001a	Chr01	3785429	3785567	+	-
sly-miR7987	Chr01	6124336	6124543	+	-
sly-miR8021-2	Chr01	7080736	7080968	+	-
sly-miR8021-3	Chr01	7560721	7560952	+	-
sly-miR5532-2	Chr01	23884288	23884550	+	-
sly-miR8008a-2	Chr01	58955541	58955728	-	-
sly-miR403	Chr01	70879746	70879857	+	Cluster sly-miR403 / miR403a
sly-miR403a	Chr01	70879746	70879857	-	Cluster sly-miR403 / miR403a
sly-miR6024	Chr01	74999715	74999830	-	-
sly-miR8019-2	Chr01	77466434	77466695	-	-
sly-miR477a	Chr01	78638982	78639051	+	Cluster sly-miR477a / miR477b
sly-miR477b	Chr01	78639098	78639169	+	Cluster sly-miR477a / miR477b
sly-miR166a-4	Chr01	79167027	79167184	+	-
sly-miR9476-1	Chr01	79871305	79871398	-	Cluster sly-miR9476-1 / miR9476-2
sly-miR9476-2	Chr01	79871305	79871398	+	Cluster sly-miR9476-1 / miR9476-2

sly-miR164e	Chr01	81732058	81732154	+	-
sly-miR8033	Chr01	82368195	82368302	+	-
sly-miR408a	Chr01	82792800	82792871	-	Cluster sly-miR408a / miR408-1 / miR408-2
sly-miR408-1	Chr01	82801294	82801421	+	Cluster sly-miR408a / miR408-1 / miR408-2
sly-miR408-2	Chr01	82801313	82801400	-	Cluster sly-miR408a / miR408-1 / miR408-2
sly-miR166g	Chr01	84381886	84382072	-	-
sly-miR394a	Chr01	84522976	84523056	+	-
sly-miR5304	Chr01	88965235	88965376	+	-
sly-miR5303f	Chr02	15421474	15421599	-	-
sly-miR160	Chr02	16516599	16516693	+	Cluster sly-miR160 / miR160a
sly-miR160a	Chr02	16516603	16516688	-	Cluster sly-miR160 / miR160a
sly-miR395a-4	Chr02	27508317	27508618	-	-
sly-miR395a-3	Chr02	27526657	27526763	-	Cluster sly-miR395a-3 / miR395a-2
sly-miR395a-2	Chr02	27532948	27533117	-	Cluster sly-miR395a-3 / miR395a-2
sly-miR395g	Chr02	27549467	27549629	-	-
sly-miR170-1	Chr02	27921825	27921936	-	-
sly-miR157a-1	Chr02	29897653	29897798	+	-
sly-miR171b-1	Chr02	39361365	39361456	-	Cluster sly-miR171b-1 / miR171c-4
sly-miR171c-4	Chr02	39361365	39361456	+	Cluster sly-miR171b-1 / miR171c-4
sly-miR170-2	Chr02	41330648	41330736	-	-
sly-miR3627	Chr02	44533182	44533306	+	-
sly-miR169b-3	Chr02	44891179	44891362	+	Cluster sly-miR169b-3 / miR169m
sly-miR169m	Chr02	44891179	44891362	-	Cluster sly-miR169b-3 / miR169m
sly-miR1917-2	Chr02	45673075	45673265	-	-
sly-miR157a-2	Chr02	47055452	47055653	+	-
sly-miR7983-4	Chr02	47187308	47187444	-	-
sly-miR166a-3	Chr03	292993	293085	-	-
sly-miR399d-1	Chr03	731272	731394	+	Cluster sly-miR399d-1 / miR399d-2 / miR399a-1 / miR399a-2

sly-miR399d-2	Chr03	736833	737003	+	Cluster sly-miR399d-1 / miR399d-2 / miR399a-1 / miR399a-2
sly-miR399a-1	Chr03	740609	740748	+	Cluster sly-miR399d-1 / miR399d-2 / miR399a-1 / miR399a-2
sly-miR399a-2	Chr03	740609	740748	-	Cluster sly-miR399d-1 / miR399d-2 / miR399a-1 / miR399a-2
sly-miR7984c	Chr03	1702228	1702429	+	-
sly-miR393a	Chr03	7461883	7461960	+	-
sly-miR8032d	Chr03	8135655	8135965	+	-
sly-miR399d-3	Chr03	8195070	8195158	-	Cluster sly-miR399d-3 / miR399a-3 / miR399a-4
sly-miR399a-3	Chr03	8197014	8197116	-	Cluster sly-miR399d-3 / miR399a-3 / miR399a-4
sly-miR399a-4	Chr03	8200883	8201205	-	Cluster sly-miR399d-3 / miR399a-3 / miR399a-4 e Cluster sly-miR399a-4 / miR399i-1
sly-miR399i-1	Chr03	8207302	8207404	+	Cluster sly-miR399a-4 / miR399i-1
sly-miR399a-5	Chr03	8244828	8245044	-	Cluster sly-miR399a-5 / miR399j-3
sly-miR399j-3	Chr03	8246157	8246226	+	Cluster sly-miR399a-5 / miR399j-3
sly-miR169g	Chr03	9599328	9599535	-	-
sly-miR8008b-3	Chr03	13534101	13534293	-	-
sly-miR437	Chr03	35592342	35592574	+	-
sly-miR7980b-1	Chr03	45198462	45198572	-	Cluster sly-miR7980b-1 / miR7980b-2
sly-miR7980b-2	Chr03	45198462	45198572	+	Cluster sly-miR7980b-1 / miR7980b-2
sly-miR166-3	Chr03	46023547	46023712	-	-
sly-miR171f	Chr03	46143098	46143209	+	-
sly-miR8011a-1	Chr03	48193159	48193258	-	-
sly-miR319c-2	Chr03	49898464	49898640	+	-
sly-miR8006-1	Chr03	50967695	50967937	-	-
sly-miR162-2	Chr03	58491529	58491638	+	-
sly-miR482a-2	Chr03	58819307	58819397	+	-
sly-miR1446-2	Chr03	61083454	61083561	-	Cluster sly-miR1446-2 / miR1446-1
sly-miR1446-1	Chr03	61088238	61088350	-	Cluster sly-miR1446-2 / miR1446-1
sly-miR157a-4	Chr03	61719977	61720222	+	-

sly-miR159a	Chr03	61786066	61786243	+	Cluster sly-miR159a / miR319-2
sly-miR319-2	Chr03	61794558	61794736	+	Cluster sly-miR159a / miR319-2
sly-miR7992	Chr03	61917376	61917583	-	-
sly-miR319c-1	Chr03	62165535	62165711	-	-
sly-miR5300	Chr04	423124	423389	+	-
sly-miR8038a	Chr04	2889569	2889704	+	-
sly-miR172d-7	Chr04	4093777	4093942	-	-
sly-miR7983-6	Chr04	8229792	8229891	-	-
sly-miR8019-1	Chr04	38381381	38381663	+	-
sly-miR5162	Chr04	55034615	55034753	-	-
sly-miR482a-1	Chr04	55142233	55142368	+	-
sly-miR319a-1	Chr05	2723769	2723955	-	-
sly-miR5303h-2	Chr05	4271187	4271310	-	-
sly-miR7983-3	Chr05	5360539	5360720	+	-
sly-miR7696c-3p	Chr05	20822351	20822596	+	-
sly-miR8008b-1	Chr05	40031567	40031789	-	-
sly-miR1128	Chr05	61592931	61593199	+	-
sly-miR172d-8	Chr05	62347683	62347808	+	Cluster sly-miR172d-8 / miR172j-1
sly-miR172j-1	Chr05	62347692	62347800	-	Cluster sly-miR172d-8 / miR172j-1
sly-miR172d-3	Chr05	64339677	64339769	+	-
sly-miR160h-1	Chr05	64582685	64582779	-	-
sly-miR172j-2	Chr06	654146	654314	-	Cluster sly-miR172j-2 / miR172d-5
sly-miR172d-5	Chr06	654152	654315	+	Cluster sly-miR172j-2 / miR172d-5
sly-miR319a-2	Chr06	1551725	1551913	+	-
sly-miR166a-1	Chr06	2516280	2516399	-	-
sly-miR4376	Chr06	4541878	4541973	+	-
sly-miR166-1	Chr06	33130261	33130406	+	-
sly-miR482c	Chr06	33869896	33870040	-	Cluster sly-miR482c / miR482d / miR482e

sly-miR482d	Chr06	33870218	33870328	-	Cluster sly-miR482c / miR482d / miR482e
sly-miR482e	Chr06	33877958	33878106	-	Cluster sly-miR482c / miR482d / miR482e
sly-miR5303c	Chr06	34020808	34020943	+	-
sly-miR8013	Chr06	35292068	35292283	-	-
sly-miR164f	Chr06	36194242	36194329	+	-
sly-miR171b-3	Chr06	39151942	39152051	+	-
sly-miR157a-3	Chr06	39241675	39241775	-	-
sly-miR162-1	Chr06	39463102	39463229	+	-
sly-miR8007a	Chr06	42323490	42323638	+	-
sly-miR172d-4	Chr06	42918718	42918859	+	Cluster sly-miR172d-4 / miR172d-2
sly-miR172d-2	Chr06	42918809	42919082	+	Cluster sly-miR172d-4 / miR172d-2
sly-miR167a-1	Chr06	45629353	45629474	-	Cluster sly-miR167a-1 / miR167h-1
sly-miR167h-1	Chr06	45629353	45629474	+	Cluster sly-miR167a-1 / miR167h-1
sly-miR156a-2	Chr07	324084	324176	+	-
sly-miR8001b-2	Chr07	1371921	1372010	-	-
sly-miR169f.1	Chr07	2171582	2171769	-	Cluster sly-miR169f.1 / miR169d
sly-miR169d	Chr07	2181139	2181302	+	Cluster sly-miR169f.1 / miR169d
sly-miR396g-1	Chr07	2628752	2628895	+	Cluster sly-miR396g-1 / miR396b
sly-miR396b	Chr07	2628764	2628883	-	Cluster sly-miR396g-1 / miR396b
sly-miR171c-3	Chr07	2683183	2683282	+	-
sly-miR9473-1	Chr07	3076296	3076415	+	Cluster sly-miR9473-1 / miR9473-2
sly-miR9473-2	Chr07	3076300	3076417	-	Cluster sly-miR9473-1 / miR9473-2
sly-miR169a-2	Chr07	4210773	4210930	+	-
sly-miR169b-1	Chr07	4225316	4225517	+	-
sly-miR169a-1	Chr07	4249346	4249660	-	Cluster sly-miR169a-1 / miR169b-2
sly-miR169b-2	Chr07	4249593	4249739	-	Cluster sly-miR169a-1 / miR169b-2
sly-miR1886h-2	Chr07	8054845	8055018	-	-
sly-miR171i	Chr07	58089164	58089249	+	-

sly-miR171b-2	Chr07	58137045	58137203	+	-
sly-miR156f	Chr07	58834506	58834669	-	-
sly-miR397-1	Chr07	63282721	63282847	-	Cluster sly-miR397-1 / miR397-2
sly-miR397-2	Chr07	63282721	63282847	+	Cluster sly-miR397-1 / miR397-2
sly-miR168a-2	Chr08	558752	558911	+	-
sly-miR5303	Chr08	1444246	1444371	-	-
sly-miR8045-2	Chr08	2128091	2128276	-	-
sly-miR1917-1	Chr08	2461914	2462061	-	-
sly-miR166a-2	Chr08	2978416	2978522	+	-
sly-miR8008b-2	Chr08	9039778	9039969	-	-
sly-miR7805	Chr08	9491933	9492271	+	-
sly-miR8008a-1	Chr08	38633053	38633106	-	-
sly-miR2101	Chr08	39950644	39950725	-	-
sly-miR5368	Chr08	44162989	44163071	+	-
sly-miR156l-2	Chr08	49122866	49122977	-	-
sly-miR156i-1	Chr08	49142551	49142705	-	Cluster sly-miR156i-1 / miR156i-2 / miR156a-1
sly-miR156i-2	Chr08	49142800	49142903	-	Cluster sly-miR156i-1 / miR156i-2 / miR156a-1
sly-miR156a-1	Chr08	49143790	49143881	-	Cluster sly-miR156i-1 / miR156i-2 / miR156a-1
sly-miR156c	Chr08	49154388	49154486	-	-
sly-miR156l-1	Chr08	49276189	49276298	+	-
sly-miR7983-5	Chr08	52683068	52683140	-	-
sly-miR1919a-1	Chr08	53776365	53776541	+	-
sly-miR1919a-3	Chr08	53821465	53821628	+	-
sly-miR169e	Chr08	54794591	54794783	+	-
sly-miR9472	Chr08	56132627	56132806	+	-
sly-miR7984d	Chr08	59496891	59497106	+	-
sly-miR399j-2	Chr08	60677208	60677353	-	-
sly-miR159b	Chr08	61503118	61503376	-	-

sly-miR319c-3	Chr08	61949535	61949705	-	-
sly-miR1918	Chr08	62590533	62590698	-	-
sly-miR166-2	Chr08	62860619	62860776	+	-
sly-miR5014a	Chr09	958808	959030	-	-
sly-miR160h-2	Chr09	1279200	1279284	-	-
sly-miR530	Chr09	1677562	1677643	+	-
sly-miR5303h-1	Chr09	2021102	2021232	-	-
sly-miR2111a	Chr09	4692768	4692838	-	-
sly-miR7981	Chr09	5246889	5247098	-	-
sly-miR164a	Chr09	7197974	7198138	+	-
sly-miR1886a	Chr09	7214036	7214222	-	-
sly-miR390a	Chr09	8388183	8388292	+	-
sly-miR7990a-2	Chr09	30262124	30262334	+	-
sly-miR7990a-1	Chr09	30276169	30276270	+	-
sly-miR8007b	Chr09	57813155	57813424	-	-
sly-miR167c	Chr09	59575909	59575992	+	Cluster sly-miR167c / miR167h-2 / miR167h-3
sly-miR167h-2	Chr09	59584668	59584780	-	Cluster sly-miR167c / miR167h-2 / miR167h-3
sly-miR167h-3	Chr09	59584682	59584766	+	Cluster sly-miR167c / miR167h-2 / miR167h-3
sly-miR7990a-3	Chr09	60617950	60618168	-	-
sly-miR8020	Chr09	61806957	61807079	+	-
sly-miR167a-2	Chr09	63883409	63883494	+	-
sly-miR7983-1	Chr09	63913426	63913598	+	-
sly-miR1886h-1	Chr09	66120260	66120330	+	-
sly-miR828a	Chr10	3437920	3438038	-	-
sly-miR477	Chr10	3641769	3641882	-	-
sly-miR390b	Chr10	58674337	58674439	-	-
sly-miR6027	Chr10	62182517	62182669	+	-
sly-miR172d-1	Chr10	63061173	63061283	+	Cluster sly-miR172d-1 / miR172d-9

sly-miR172d-9	Chr10	63061173	63061283	-	Cluster sly-miR172d-1 / miR172d-9
sly-miR5303j-2	Chr10	63285938	63286065	-	-
sly-miR7983-2	Chr11	391752	391973	-	-
sly-miR8006-2	Chr11	1086152	1086335	-	-
sly-miR172d-6	Chr11	2634492	2634739	+	Cluster sly-miR172d-6 / miR172d-10
sly-miR172d-10	Chr11	2634501	2634688	-	Cluster sly-miR172d-6 / miR172d-10
sly-miR5174d	Chr11	9329701	9329948	-	-
sly-miR8021-1	Chr11	10809746	10809964	-	-
sly-miR7122	Chr11	11628507	11628585	+	-
sly-miR8051	Chr11	13828426	13828682	+	-
sly-miR8175	Chr11	18397967	18398136	+	-
sly-miR398a	Chr11	47382920	47383009	-	-
sly-miR9478-5p	Chr11	50080141	50080351	+	-
sly-miR8039-2	Chr11	52067290	52067448	-	-
sly-miR8039-1	Chr11	52833028	52833208	-	-
sly-miR171c-1	Chr12	519803	519878	-	-
sly-miR9471a	Chr12	1977727	1977906	-	Cluster sly-miR9471a / miR9471b
sly-miR9471b	Chr12	1979383	1979529	-	Cluster sly-miR9471a / miR9471b
sly-miR171c-2	Chr12	2882792	2882890	+	-
sly-miR160g	Chr12	3988680	3988766	+	-
sly-miR5303g	Chr12	4949752	4949879	-	-
sly-miR845b	Chr12	6245368	6245652	-	-
sly-miR1919a-2	Chr12	6988842	6989001	-	-
sly-miR7985	Chr12	9939995	9940172	-	-
sly-miR5303j-1	Chr12	24522755	24522861	-	-
sly-miR319-1	Chr12	39442797	39442993	+	-
sly-miR8025	Chr12	46875936	46876072	-	-
sly-miR7993a	Chr12	62008795	62009012	+	-

sly-miR394b	Chr12	63002950	63003184	+	-
sly-miR168	Chr12	63569016	63569169	-	Cluster sly-miR168 / miR168a-1
sly-miR168a-1	Chr12	63569016	63569169	+	Cluster sly-miR168 / miR168a-1
sly-miR827	Chr12	63794575	63794682	+	-
sly-miR8001b-1	Chr12	64198687	64198818	-	-
sly-miR398b	Chr12	65125271	65125381	+	-

Tabela S8 – Localização e clusterização dos miRNAs no genoma de *S. pennellii*

Pré-miRNAs	Genoma				Presença em cluster
	Cromossomo	Início	Fim	Fita	
spe-miR7997a-2	Chr01	763648	763775	-	-
spe-miR7983-6	Chr01	776877	777092	-	-
spe-miR8011a-1	Chr01	993461	993628	+	-
spe-miR1917-4	Chr01	1337263	1337502	-	-
spe-miR7993a	Chr01	6222383	6222559	-	-
spe-miR8019	Chr01	42041349	42041618	+	-
spe-miR7983-2	Chr01	53590384	53590579	-	-
spe-miR169-5	Chr01	54778561	54778784	-	-
spe-miR5303h	Chr01	60381443	60381783	-	-
spe-miR6440b	Chr01	62433325	62433521	+	-
spe-miR8008-2	Chr01	72794167	72794320	-	-
spe-miR5174d-1	Chr01	87185558	87185812	-	-
spe-miR403-1	Chr01	88519607	88519718	+	Cluster spe-miR403-1 / miR403-2
spe-miR403-2	Chr01	88519607	88519718	-	Cluster spe-miR403-1 / miR403-2
spe-miR8006	Chr01	89260620	89260875	-	-
spe-miR8021	Chr01	91805432	91805657	+	-
spe-miR6024	Chr01	93356521	93356622	-	-
spe-miR477a	Chr01	97142596	97142665	+	Cluster spe-miR477a / miR477b
spe-miR477b	Chr01	97142710	97142781	+	Cluster spe-miR477a / miR477b
spe-miR9476-2	Chr01	98437025	98437134	+	Cluster spe-miR9476-2 / miR9476-1
spe-miR9476-1	Chr01	98437028	98437135	-	Cluster spe-miR9476-2 / miR9476-1
spe-miR164b	Chr01	100449370	100449481	+	-
spe-miR408	Chr01	101515027	101515154	+	Cluster spe-miR408 / miR408b
spe-miR408b	Chr01	101515046	101515133	-	Cluster spe-miR408 / miR408b
spe-miR166c	Chr01	103235074	103235260	-	-

spe-miR384-3	Chr01	103370640	103370700	+	-
spe-miR8032a	Chr01	104953326	104953608	-	-
spe-miR7983-3	Chr01	105741210	105741430	-	-
spe-miR8011a-2	Chr01	106347857	106347978	+	-
spe-miR7696c	Chr01	108167418	108167656	-	-
spe-miR7980b-6	Chr02	17944152	17944310	+	-
spe-miR5303f-2	Chr02	18561117	18561249	-	-
spe-miR7997a-1	Chr02	22075866	22075994	-	-
spe-miR160a	Chr02	29221649	29221751	+	Cluster spe-miR160a / miR160g-2
spe-miR160g-2	Chr02	29221652	29221746	-	Cluster spe-miR160a / miR160g-2
spe-miR171-6	Chr02	35982720	35982853	-	-
spe-miR156-3	Chr02	38183917	38184104	+	Cluster spe-miR156-3 / miR156-4 / miR156-5
spe-miR156-4	Chr02	38183967	38184052	+	Cluster spe-miR156-3 / miR156-4 / miR156-5
spe-miR156-5	Chr02	38185080	38185165	+	Cluster spe-miR156-3 / miR156-4 / miR156-5
spe-miR7983-1	Chr02	38806430	38806566	-	-
spe-miR399-9	Chr02	46563718	46563807	-	-
spe-miR8042	Chr02	47269772	47269929	-	-
spe-miR171-3	Chr02	48456158	48456249	+	Cluster spe-miR171-3 / miR171-1
spe-miR171-1	Chr02	48456163	48456243	-	Cluster spe-miR171-3 / miR171-1
spe-miR171a	Chr02	50680507	50680595	-	-
spe-miR3627-2	Chr02	54121220	54121367	+	Cluster spe-miR3627-2 / miR3627-1
spe-miR3627-1	Chr02	54121255	54121337	+	Cluster spe-miR3627-2 / miR3627-1
spe-miR169a-2	Chr02	54491741	54491901	+	-
spe-miR1917-1	Chr02	55369755	55369968	-	-
spe-miR156-6	Chr02	56825404	56825511	+	-
spe-miR5174d-2	Chr02	59770446	59770711	-	-
spe-miR166a-2	Chr03	294688	294780	-	-

spe-miR399r-1	Chr03	760858	760980	+	Cluster spe-miR399r-1 / miR399r-2 / miR399d / miR399-8
spe-miR399r-2	Chr03	765358	765483	+	Cluster spe-miR399r-1 / miR399r-2 / miR399d / miR399-8
spe-miR399d	Chr03	768014	768200	-	Cluster spe-miR399r-1 / miR399r-2 / miR399d / miR399-8
spe-miR399-8	Chr03	769818	770033	-	Cluster spe-miR399r-1 / miR399r-2 / miR399d / miR399-8
spe-miR393	Chr03	3264505	3264582	+	-
spe-miR399-4	Chr03	4068315	4068417	-	Cluster spe-miR399-4 / miR399-5 / miR399a-1 / miR399-3
spe-miR399-5	Chr03	4072789	4072891	-	Cluster spe-miR399-4 / miR399-5 / miR399a-1 / miR399-3 e Cluster spe-miR399-5 / miR399a-1 / miR399-3 / miR399a-2
spe-miR399a-1	Chr03	4074164	4074255	+	Cluster spe-miR399-4 / miR399-5 / miR399a-1 / miR399-3 e Cluster spe-miR399-5 / miR399a-1 / miR399-3 / miR399a-2
spe-miR399-3	Chr03	4078241	4078343	-	Cluster spe-miR399-4 / miR399-5 / miR399a-1 / miR399-3 e Cluster spe-miR399-5 / miR399a-1 / miR399-3 / miR399a-2
spe-miR399a-2	Chr03	4080459	4080561	+	Cluster spe- miR399-5 / miR399a-1 / miR399-3 / miR399a-2 e Cluster spe-miR399a-2 / miR399-6
spe-miR399-6	Chr03	4089509	4089611	-	Cluster spe- miR399a-2 / miR399-6
spe-miR399-1	Chr03	4140329	4140503	+	-
spe-miR7983-4	Chr03	4924109	4924248	-	-
spe-miR395i	Chr03	31337654	31337827	+	-
spe-miR8001a	Chr03	33496291	33496434	-	-
spe-miR8175-1	Chr03	41122625	41122861	+	-
spe-miR166a-3	Chr03	53852785	53852958	-	-
spe-miR171-7	Chr03	53981867	53981978	-	Cluster spe-miR171-7 / miR479
spe-miR479	Chr03	53981867	53981978	+	Cluster spe-miR171-7 / miR479
spe-miR398b-1	Chr03	56677168	56677249	+	-

spe-miR8011	Chr03	56824059	56824159	-	-
spe-miR319c-2	Chr03	58587777	58587954	+	-
spe-miR8047	Chr03	63861049	63861256	+	-
spe-miR8007a	Chr03	64725491	64725758	+	-
spe-miR171-5	Chr03	65647221	65647332	-	-
spe-miR162a-1	Chr03	68777282	68777391	+	-
spe-miR482a	Chr03	69139850	69139940	+	-
spe-miR1446	Chr03	71566760	71566898	-	Cluster spe-miR1446 / miR1446a
spe-miR1446a	Chr03	71572091	71572186	-	Cluster spe-miR1446 / miR1446a
spe-miR156-1	Chr03	72241872	72242020	+	-
spe-miR319c-3	Chr03	72316257	72316435	+	Cluster spe-miR319c-3 / miR319-3
spe-miR319-3	Chr03	72316430	72316608	+	Cluster spe-miR319c-3 / miR319-3
spe-miR7992	Chr03	72436042	72436289	-	-
spe-miR319c-1	Chr03	72682683	72682859	-	-
spe-miR5300	Chr04	532618	532882	+	-
spe-miR1886-1	Chr04	2218162	2218292	+	-
spe-miR8038a	Chr04	3062868	3063003	+	-
spe-miR7997a	Chr04	5436378	5436561	-	-
spe-miR7998	Chr04	29817477	29817707	-	-
spe-miR5303f-3	Chr04	67270034	67270180	-	-
spe-miR5162	Chr04	67786524	67786663	-	-
spe-miR482e	Chr04	67878952	67879113	+	Cluster spe-miR482e / miR8036
spe-miR8036	Chr04	67883283	67883368	+	Cluster spe-miR482e / miR8036
spe-miR838	Chr04	71680733	71681017	-	-
spe-miR384-1	Chr04	76575040	76575242	+	-
spe-miR395g	Chr05	1860758	1860911	+	-
spe-miR395d	Chr05	1873805	1873904	-	-
spe-miR395a	Chr05	1887590	1887692	-	-

spe-miR319-1	Chr05	2968007	2968193	-	-
spe-miR398b-2	Chr05	6357522	6357739	+	-
spe-miR5174d-3	Chr05	52038749	52039016	-	-
spe-miR8008-1	Chr05	52060864	52060990	-	-
spe-miR7980b-1	Chr05	69649762	69649910	-	Cluster spe-miR7980b-1 / miR7980b-3
spe-miR7980b-3	Chr05	69649795	69649908	+	Cluster spe-miR7980b-1 / miR7980b-3
spe-miR6144	Chr05	73651677	73651864	+	-
spe-miR1128	Chr05	74342704	74343004	+	-
spe-miR172-5	Chr05	75143059	75143190	-	Cluster spe-miR172-5 / miR172d
spe-miR172d	Chr05	75143079	75143172	+	Cluster spe-miR172-5 / miR172d
spe-miR5303f-1	Chr05	76336809	76337118	+	-
spe-miR172-6	Chr05	77261541	77261645	+	-
spe-miR160g-1	Chr05	77521943	77522037	+	Cluster spe-miR160g-1 / miR160-1
spe-miR160-1	Chr05	77521947	77522034	-	Cluster spe-miR160g-1 / miR160-1
spe-miR172-3	Chr06	717771	717939	+	Cluster spe-miR172-3 / miR172-4
spe-miR172-4	Chr06	717771	717939	-	Cluster spe-miR172-3 / miR172-4
spe-miR8039	Chr06	810209	810350	-	-
spe-miR319-2	Chr06	1727636	1727820	+	-
spe-miR166-1	Chr06	2799085	2799201	-	-
spe-miR4376	Chr06	4599649	4599744	+	-
spe-miR8024	Chr06	16538507	16538591	+	-
spe-miR5303-2	Chr06	45062879	45062996	-	-
spe-miR166a-1	Chr06	46235742	46235887	+	-
spe-miR1917-3	Chr06	46648812	46649012	-	-
spe-miR482d	Chr06	47145145	47145257	-	Cluster spe-miR482d / miR482-1/ miR482b / miR482-2
spe-miR482-1	Chr06	47145443	47145601	-	Cluster spe-miR482d / miR482-1/ miR482b / miR482-2
spe-miR482b	Chr06	47148823	47148941	-	Cluster spe-miR482d / miR482-1/ miR482b / miR482-2

spe-miR482-2	Chr06	47153410	47153519	-	Cluster spe-miR482d / miR482-1/ miR482b / miR482-2
spe-miR164	Chr06	50067065	50067162	+	-
spe-miR7987	Chr06	51830859	51830956	-	-
spe-miR171	Chr06	53312500	53312609	+	-
spe-miR156-2	Chr06	53412403	53412503	-	-
spe-miR162a-2	Chr06	53636765	53636894	+	-
spe-miR9477	Chr06	54350260	54350413	+	-
spe-miR172a	Chr06	57403102	57403243	+	-
spe-miR167a	Chr06	60329006	60329098	-	-
spe-miR156-12	Chr07	389305	389395	-	-
spe-miR8001b-2	Chr07	1638009	1638098	-	-
spe-miR169-2	Chr07	2513858	2514047	-	Cluster spe-miR169-2 / miR169-4 / miR169-3
spe-miR169-4	Chr07	2516932	2517123	+	Cluster spe-miR169-2 / miR169-4 / miR169-3
spe-miR169-3	Chr07	2533839	2534002	+	Cluster spe-miR169-2 / miR169-4 / miR169-3
spe-miR396a	Chr07	2869277	2869383	+	Cluster spe-miR396a / miR396-2 / miR396-1
spe-miR396-2	Chr07	2878850	2878980	+	Cluster spe-miR396a / miR396-2 / miR396-1
spe-miR396-1	Chr07	2878854	2878975	-	Cluster spe-miR396a / miR396-2 / miR396-1
spe-miR171e-2	Chr07	2946958	2947057	+	-
spe-miR9473-2	Chr07	3372042	3372219	+	Cluster spe-miR9473-2 / miR9473-1
spe-miR9473-1	Chr07	3372084	3372201	-	Cluster spe-miR9473-2 / miR9473-1
spe-miR1886h-1	Chr07	8373616	8373788	-	-
spe-miR5567	Chr07	17517474	17517679	-	-
spe-miR8005	Chr07	18793540	18793709	-	-
spe-miR8008b-3	Chr07	40677099	40677213	-	-
spe-miR169c	Chr07	49698756	49698853	+	Cluster spe-miR169c / miR169-1
spe-miR169-1	Chr07	49700826	49700980	+	Cluster spe-miR169c / miR169-1
spe-miR169a-1	Chr07	49721505	49721651	-	-

spe-miR9469	Chr07	69192435	69192575	-	-
spe-miR171-4	Chr07	71701400	71701485	+	-
spe-miR7984	Chr07	71807970	71808199	+	-
spe-miR5303e	Chr07	73490465	73490593	-	-
spe-miR397	Chr07	77142462	77142577	-	-
spe-miR5303-3	Chr08	289072	289190	-	-
spe-miR168a	Chr08	633373	633558	+	-
spe-miR5303-1	Chr08	1624119	1624244	-	-
spe-miR7983-5	Chr08	1925318	1925458	-	-
spe-miR8045	Chr08	2181950	2182211	-	-
spe-miR8013	Chr08	2664484	2664770	-	-
spe-miR1917-2	Chr08	2694336	2694471	-	-
spe-miR166-2	Chr08	3223120	3223226	+	-
spe-miR8008b-2	Chr08	10372996	10373189	+	Cluster spe-miR8008b-2 / miR8008b-1
spe-miR8008b-1	Chr08	10373065	10373118	-	Cluster spe-miR8008b-2 / miR8008b-1
spe-miR7984c	Chr08	53205515	53205833	+	-
spe-miR156-10	Chr08	55832450	55832557	-	-
spe-miR156-11	Chr08	55860443	55860599	-	Cluster spe-miR156-11 / miR156-9 / miR156-8
spe-miR156-9	Chr08	55860941	55861041	-	Cluster spe-miR156-11 / miR156-9 / miR156-8
spe-miR156-8	Chr08	55861199	55861290	-	Cluster spe-miR156-11 / miR156-9 / miR156-8
spe-miR156-7	Chr08	55884705	55884801	-	-
spe-miR5303	Chr08	58662225	58662426	-	-
spe-miR1919	Chr08	60775494	60775670	+	-
spe-miR1919	Chr08	60800793	60800969	+	-
spe-miR169e	Chr08	61831591	61831769	+	-
spe-miR1886-2	Chr08	65611577	65611692	+	-
spe-miR399-2	Chr08	68047718	68047824	-	-

spe-miR319a	Chr08	69369759	69369928	-	-
spe-miR1918	Chr08	70028116	70028312	-	-
spe-miR5014a	Chr09	995181	995440	-	-
spe-miR7984b	Chr09	1178022	1178226	+	-
spe-miR160-2	Chr09	1305450	1305565	-	-
spe-miR530	Chr09	1716007	1716099	+	-
spe-miR7980b-4	Chr09	2750232	2750347	-	-
spe-miR2111a	Chr09	4970294	4970364	-	-
spe-miR6232b	Chr09	6849301	6849585	-	-
spe-miR164a	Chr09	7469784	7469948	+	-
spe-miR390	Chr09	11503984	11504093	+	-
spe-miR2673a	Chr09	32197905	32198112	-	-
spe-miR7990a-1	Chr09	36111556	36111665	+	Cluster spe-miR7990a-1 / miR7990a-2
spe-miR7990a-2	Chr09	36121579	36121697	+	Cluster spe-miR7990a-1 / miR7990a-2
spe-miR399-7	Chr09	37782560	37782817	-	-
spe-miR8008a-2	Chr09	54478465	54478670	-	Cluster spe-miR8008a-2 / miR8008a-1
spe-miR8008a-1	Chr09	54478610	54478739	-	Cluster spe-miR8008a-2 / miR8008a-1
spe-miR5368	Chr09	57270433	57270515	-	-
spe-miR8051	Chr09	58910569	58910902	+	-
spe-miR8175-2	Chr09	59756881	59757050	-	-
spe-miR8016	Chr09	62946500	62946671	-	-
spe-miR5368	Chr09	74641352	74641434	-	-
spe-miR167-3	Chr09	75312701	75312784	+	-
spe-miR167-1	Chr09	75320778	75320862	+	-
spe-miR8020	Chr09	77715051	77715138	+	-
spe-miR7993b-2	Chr09	78450026	78450264	-	-
spe-miR167h	Chr09	80024502	80024697	-	Cluster spe-miR167h / miR167-2
spe-miR167-2	Chr09	80024558	80024643	+	Cluster spe-miR167h / miR167-2

spe-miR828a	Chr10	3597340	3597458	-	-
spe-miR477	Chr10	3890938	3891051	-	-
spe-miR7981	Chr10	46959971	46960184	-	-
spe-miR5303c-2	Chr10	63014597	63014715	-	-
spe-miR390a	Chr10	75977018	75977120	-	-
spe-miR6027	Chr10	79748661	79748824	+	-
spe-miR172-8	Chr10	80668535	80668644	-	Cluster spe-miR172-8 / miR172-7
spe-miR172-7	Chr10	80668537	80668641	+	Cluster spe-miR172-8 / miR172-7
spe-miR7983-7	Chr10	80735432	80735644	-	-
spe-miR8001b-1	Chr11	1226731	1227071	+	-
spe-miR1886h-2	Chr11	5485202	5485298	+	-
spe-miR6478	Chr11	7210440	7210748	-	-
spe-miR7980b-5	Chr11	49545167	49545323	+	Cluster spe-miR7980b-5 / miR7980b-2
spe-miR7980b-2	Chr11	49545230	49545309	-	Cluster spe-miR7980b-5 / miR7980b-2
spe-miR398a	Chr11	59950774	59950863	-	-
spe-miR172-2	Chr11	64255940	64256125	+	Cluster spe-miR172-2 / miR172-1
spe-miR172-1	Chr11	64255947	64256105	-	Cluster spe-miR172-2 / miR172-1
spe-miR171-2	Chr12	614702	614776	-	-
spe-miR9471b	Chr12	2195833	2195979	-	-
spe-miR171e-1	Chr12	3162612	3162738	+	-
spe-miR5303c-1	Chr12	3259679	3259804	-	-
spe-miR160c	Chr12	5032210	5032296	+	-
spe-miR1919c	Chr12	7326187	7326346	-	-
spe-miR319-4	Chr12	53120856	53121052	+	-
spe-miR7993b-1	Chr12	60349441	60349716	-	-
spe-miR8025	Chr12	61214103	61214239	-	-
spe-miR8024a	Chr12	66067103	66067345	-	-
spe-miR8026	Chr12	72433699	72433822	-	-

spe-miR384-2	Chr12	80462369	80462564	+	-
spe-miR168b	Chr12	81073196	81073365	+	-
spe-miR827	Chr12	81335316	81335403	+	-
spe-miR398	Chr12	82730667	82730759	+	-

Tabela S9 – Caracterização estrutural e termodinâmica dos precursores de miRNAs em *S. lycopersicum*. Tamanho (Tam), conteúdo de G, conteúdo de A, conteúdo de C, conteúdo de U, conteúdo de GC, conteúdo de AU, razão de AU (R-AU), razão de GC (R-GC), Energia Mínima Livre (MFE), Energia Mínima Livre do Conjunto (MFEE), Frequência da estrutura do MFE no Conjunto (Freq), Diversidade do Conjunto (Div), Energia Mínima Livre Ajustada (AMFE), Índice de Energia Mínima Livre (MFEI).

Pre-miRNA	Sequence	Tam	G	A	C	U	GC	AU	R-AU	R-GC	MFE	MFEE	Freq	Div	AMFE	MFEI
sly-miR1128	uacuacuccuccgucccaaaauaagugucacu uuagcaauaaucacacacuaagaaaaauaa uaauagaaagguauuacacaaaguuaccc cuauuuuuuaguuuuuugacaaugagca ugaauugauaaguuuuuuuagacaaaggua uacuuggaaaaacauacuaauuucugucuuaa guuccuauuggugacacuuuuuuuggaaaaaa uuuauugcuaaaagugacacuuuuuuugggacg gauggaguauuu	269	15,61338	34,20074	15,61338	34,57249	31,22677	68,77323	1,01087	1	-98,1	-96,7	0,003476	31,09	-36,4684	-1,16786
sly-miR1446-1	aauggaaaucaguguuuucugaacucucucc cuaauuggcuucccauuauaaaauuuuuu aaaagagcagccauagagagaugaguucagaa aacuauggcuuuccuag	113	16,81416	32,74336	19,46903	30,97345	36,28319	63,71681	0,945946	0,863636	-46,8	-44,4	0,109489	4,46	-41,4159	-1,14146
sly-miR1446-2	cagaguuuuucugaacucucuccucaauggcug uucuaauaaauaauugcugcuacuauugcagcuu aaauaaauaacagcuuuuggggguuugagucca gaaaacucuuug	108	18,51852	25,92593	20,37037	35,18519	38,88889	61,11111	1,357143	0,909091	-51,1	-51,1	0,163176	3,74	-47,3148	-1,21667
sly-miR156a-1	cggugacagaagagagugagcacauauggucu uuucaagcaugauguuuacaugcuugaagcua ugcgugcucacuuucuaucugucacccc	92	22,82609	23,91304	22,82609	30,43478	45,65217	54,34783	1,272727	1	-55,6	-55,6	0,317684	2,7	-60,4348	-1,32381
sly-miR156a-2	gacugacagaagagagugagcacagcauguca aauguauaaaaauauaacaauugcauuug cgugugcucacuuucuaucugucagaaau	93	19,35484	32,25806	17,2043	31,1828	36,55914	63,44086	0,966667	1,125	-48,7	-45,7	0,094595	4,25	-52,3656	-1,43235
sly-miR156c	uggugauagaagagagugagcacacauaggugu uuucuuugcaugauuuuuauauauauaugcu ugaaacuaugugucuacucucuaucuguca ccc	99	21,21212	25,25253	16,16162	37,37374	37,37374	62,62626	1,48	1,3125	-56,8	-56,8	0,39483	4,69	-57,3737	-1,53514
sly-miR156f	acauaugagauuuugguaggaucacaaaguga gaaaauucuaauagacagaagagagagagacaa ucugucacagcaaaugauauuuguuuuuu uggaaugugcucucucugcuucugcgaaggga aacuaaaaaauggauccuacacaaagauuuau acau	164	20,73171	34,7561	14,02439	30,4878	34,7561	65,2439	0,877193	1,478261	-67	-67	0,08395	6,09	-40,8537	-1,17544
sly-miR156i-1	ucuaauuaaguguaaagaaagacaaaaagagg ugacagaagagcgugagcacauuguguuuuu uagcaugauuuuuauaugcuugaaucaugcg ugcucacugcucuaucuuuacuccuacugcuu	155	18,06452	25,80645	19,35484	36,77419	37,41935	62,58065	1,425	0,933333	-50,4	-50,4	0,102397	8,43	-32,5161	-0,86897

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sly-miR156i-2	gggaggugacagaagagagugggacauaugg uauuuucucgagcuugaaacuaugucugcu cacuucucuaucugcauccuacauuuucuc cguuuu	104	21,15385	20,19231	24,03846	34,61538	45,19231	54,80769	1,714286	0,88	-40,8	-40,8	0,169001	5,92	-39,2308	-0,86809
sly-miR156i-1	aaaaggggcgugacagaagagagugagcaca caugguguuuucuaagcaugauuuuacaugc uugaacuaugugugcucacugcucuaucugu cacccccaucgu	110	24,54545	24,54545	22,72727	28,18182	47,27273	52,72727	1,148148	1,08	-67,3	-67,3	0,50298	2,24	-61,1818	-1,29423
sly-miR156i-2	aaggggcgugacagaagagagugagcacaca uggcguuuucuggcaugauuuauauauaua uugcuugaacuaugugugcucacugcucua ucugucaccuccacc	112	24,10714	25	21,42857	29,46429	45,53571	54,46429	1,178571	1,125	-64,1	-64,1	0,313	7,58	-57,2321	-1,25686
sly-miR157a-1	uguuaaaagaggagugguaggagauuguu gacagaagauagagagcagagauaaagug cauggaaaugucugcaccuacuccuuugug cucuuaauucucugucaucaucauuauccca ccuuuuuuuuugauuu	146	21,23288	26,71233	15,75342	36,30137	36,9863	63,0137	1,358974	1,347826	-67,1	-66,7	0,030551	8,03	-45,9589	-1,24259
sly-miR157a-2	cucacaacuguaaguuauuuuuuucaaga gagcaggaaaaguuugggugagauuuugu cagaagauagagagcaggaauaagaggugcu aauggaagcugcaccuuaauucuuugugcuc ucuaauucucugucaucaucaucaguccuccc cgaccucucuaaccuuaauuuauucacguuu auuguauu	202	17,82178	27,72277	19,80198	34,65347	37,62376	62,37624	1,25	0,9	-69	-65,8	0,004479	23,11	-34,1584	-0,90789
sly-miR157a-3	uugacagaagauagagagcacuaaugauaua ugcuaauuucaucaaauugggcagcaaaagc aucucaauucauuugugcucucuaugcuucug ucauc	101	17,82178	29,70297	18,81188	33,66337	36,63366	63,36634	1,133333	0,947368	-43,2	-41,9	0,123911	6,62	-42,7723	-1,16757
sly-miR157a-4	auugauuuguguaaaauguaggaggaaaaa aaagaggggaaaauggaugggugauuuugu gacagaagauagagagcacauauggaauug cugcugcugcugcugcuaaaucuggagagucu uaacaauaaaaaaagcauuucacuucuuuug ugcucucuaugcuuccgucacccuuucauccu cuucuccuucuauuuuucucucucuccua aaucuaucacaaacucguu	246	18,69919	29,6748	18,69919	32,92683	37,39837	62,60163	1,109589	1	-81,6	-72,1	0,001928	29,98	-33,1707	-0,88696
sly-miR159a	ggagcuccuugaaguccaagagagaucaac agguuagauugagcugcugaccuauuggauucc ucagcccuaucauuuauugauuucaaacaua agauagguuugugguuugcauauugcaggag cuuuauuuuaccuuuuguuugaucauuuuug gauugaaggagcucucac	178	21,91011	24,7191	17,41573	35,95506	39,32584	60,67416	1,454545	1,258065	-79	-76,4	0,018008	12,25	-44,382	-1,12857
sly-miR159b	cuguuuguggauuacugauuucauauagu ugauuuuaacuuugcagggaagauuagaguu	259	20,46332	28,57143	14,67181	36,29344	35,13514	64,86486	1,27027	1,394737	-89,5	-86,4	0,000123	25,78	-34,556	-0,98352

	cugaauagagcuuuucgaaaucaaaagag gaucugagagggaaaucgagcugcuaauca uggaucccucaaaaccuaucuaauucuaaa auuuuagauagguuugugguuugcauaauca ggagcucauuuacucucuaggauccuuuu ggaugaaggaggagcucuaaguuugauaaccua auu															
sly-miR160	ggugguauugcuggcuccuuauacgcccccac ugaucagucuaaacaagaauuggugaugugu guggcauacaggaggagccaggcacauccuuc	95	26,31579	24,21053	24,21053	25,26316	50,52632	49,47368	1,043478	1,086957	-42,6	-41,9	0,100259	11,91	-44,8421	-0,8875
sly-miR160a	augugcugggcuccuguaugccacacacauuc accuuuucuuugauugacugagcagugggug cguaauaggagccaagcauac	86	23,25581	24,4186	25,5814	26,74419	48,83721	51,16279	1,095238	0,909091	-42	-42	0,436629	2,58	-48,8372	-1
sly-miR160g	cugccuggcucccuggaugccaacuaagaacag uauugucaaaaauugacacucuuuccuaguu gguaaccagaggagacaggcaga	87	22,98851	31,03448	24,13793	21,83908	47,12644	52,87356	0,703704	0,952381	-47,9	-47,9	0,312156	2,19	-55,0575	-1,16829
sly-miR160h-1	cguauaugccuggcucccuguaugccaauugca aagcucaccgguauauaucgaugggccuuguu gauggcguaugaggagccaagcauauucc	95	24,21053	23,15789	24,21053	28,42105	48,42105	51,57895	1,227273	1	-47,4	-47,4	0,144332	2,94	-49,8947	-1,03043
sly-miR160h-2	acaugccuggcuccuuguaugccauuugcauu guuccaccagaaugaugccuuuucagauug gcauucuaaggagcuaagcaug	85	22,35294	22,35294	23,52941	31,76471	45,88235	54,11765	1,421053	0,95	-36,9	-36,7	0,38696	3,21	-43,4118	-0,94615
sly-miR162-1	uaguugguugaagacacugaggcagcgguuc aucgaucgguucccuggaagcugaaauauau auacgcaaaaauacagcaaaaggauucgugc auaaaccucugcauccagugcuuaacccuuaa	128	21,875	32,03125	22,65625	23,4375	44,53125	55,46875	0,731707	0,965517	-48,4	-47,7	0,011282	12,44	-37,8125	-0,84912
sly-miR162-2	guugggugagaacacugaggagcagcgguucau cgauucguucccugaaaagcgauaaauacagc aacagggaagcgaucauaaaccucugcaucca gugcuuaacccgcc	110	25,45455	29,09091	25,45455	20	50,90909	49,09091	0,6875	1	-49	-49	0,057198	7,88	-44,5455	-0,875
sly-miR164a	agauggagaagcagggcagcugcauuacuaac ucauacgcaagauuuaucaugauuucgaaaa ucugcuaucauagucuguaauuuacagcaaa uaguguuugacuuaucaguauguguaaaaa ugaugaguuauguauuaucaugccuguuuucc ccauc	165	19,39394	29,09091	16,36364	35,15152	35,75758	64,24242	1,208333	1,185185	-58,2	-56,1	0,002523	17,78	-35,2727	-0,98644
sly-miR164e	uggguggguuacucaugauggagaagcagggc acgugcaaaauucuguaauucgacaauauauc auuacuaaugguaugcaugaauuuugcacgu guucuccuucuccaac	112	23,21429	25,89286	18,75	32,14286	41,96429	58,03571	1,241379	1,238095	-50,8	-50,6	0,021401	11,6	-45,3571	-1,08085
sly-miR164f	uuuaagcuggagaagcagggcacauugcgaau uacuugaaauucuuaccuuucaagaauuuugc augugcucagcucuccagcuuaa	88	20,45455	27,27273	20,45455	31,81818	40,90909	59,09091	1,166667	1	-50,5	-47,5	0,215526	2,29	-57,3864	-1,40278
sly-miR166-1	acaaaagaaagaaaacauuugugaggggaau guuguuugguuccgaaaucaucaaacaauua	146	17,12329	34,24658	16,43836	32,19178	33,56164	66,43836	0,94	1,041667	-54,2	-53,5	0,065467	8,11	-37,1233	-1,10612

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sly-miR166-2	ucucaguugaggggauguugucggcucgag gucaccaauuagauccauaaucuccuauauua ccaugcuuuuuaaaaaagauuuauauauaug aaaagggguuaugaucauguguuaguguugu cggaccaggcucauucccccaauuguua	158	20,25316	29,11392	18,35443	32,27848	38,60759	61,39241	1,108696	1,103448	-59	-58,7	0,120311	9,82	-37,3418	-0,96721
sly-miR166-3	agcuuccagauuugaggggauguuguuuggc ucgaagucuuuauucucuuuuuagaucgaacca auccaaauuuauauuucauucguuuuuuuuu uauaugugaaauacgaugaugaugagauagug ucuuaggaccaggcucauucccccaauuugg aaaca	166	18,6747	30,12048	17,46988	33,73494	36,14458	63,85542	1,12	1,068966	-66	-60,6	0,034522	17,96	-39,759	-1,1
sly-miR166a-1	auauuguugaggagaugucgucugguucgag aucuuucauagaagguaaagauagacaag uuuucuuauauguauucgugaauuucggac caggcucauuccccucaacucug	120	21,66667	28,33333	16,66667	33,33333	38,33333	61,66667	1,176471	1,3	-52,2	-51	0,291748	5,74	-43,5	-1,13478
sly-miR166a-2	uuauuuuugaggggauguuguuuggcucgag gccaccaauucacuaauugugagcaaacucuu uguuagugucgucggaccaggcucauuccccu caaaucuc	107	21,49533	22,42991	23,36449	32,71028	44,85981	55,14019	1,458333	0,92	-44,5	-40,1	0,039483	13,55	-41,5888	-0,92708
sly-miR166a-3	aaacaagaucauguuaaggagaauugucug guucgugaccuauaauucuuuucacauaaau gaucucggaccaggcucauuccccucaa	93	17,2043	29,03226	22,58065	31,1828	39,78495	60,21505	1,074074	0,761905	-30,6	-30,6	0,192826	4,67	-32,9032	-0,82703
sly-miR166a-4	ggagagagagcuuuuguauuugcgggauguu gucuggcucgaggaaucaaaaauguuuuuuu uagauagaucuguaauuuuguuuuauagaucu auaauuuuuuguugucgucggaccaggcuuc auuccccacaugaauuugcucucucaca	158	22,1519	25,31646	15,82278	36,70886	37,97468	62,02532	1,45	1,4	-71,2	-71,2	0,176528	5,62	-45,0633	-1,18667
sly-miR166g	uguguguggugaguuuagggggauguugucu ggcucgacacaaauacucuaauuguauuuuu aguuaauucguuaucaagauugaugucgaaac gaauaaaaaaacacauauuacaagauuaa aaaggaguaaaaggcugcggaccaggcucau uccucucaacaauuucuaucuuuac	187	21,39037	30,48128	14,97326	33,15508	36,36364	63,63636	1,087719	1,428571	-71,3	-68,3	0,00768	17,68	-38,1283	-1,04853
sly-miR167a-1	acaucgucagcacuagcaguugaagcugcca gcaugaucuaaaacuuuccuuuuuaguucaaua uauuucgaggaaagaucagaucaugugcagc cuuaccugucaaugccaucacgaauu	122	18,85246	30,32787	22,95082	27,86885	41,80328	58,19672	0,918919	0,821429	-47,3	-47,1	0,127815	5,41	-38,7705	-0,92745
sly-miR167a-2	aucaguugaagcugccagcaugaucuaaacuu accuauaaaauuauuuuaggaagaucaugau caugugguugcuuaccuguaa	86	17,44186	31,39535	18,60465	32,55814	36,04651	63,95349	1,037037	0,9375	-31,7	-31,7	0,074858	5,62	-36,8605	-1,02258
sly-miR167c	gugaagcugccagcaugaucuaaaucugcca uuuauaaagaaaauaggugacuaagguuaggu	84	25	29,7619	20,2381	25	45,2381	54,7619	0,84	1,235294	-41,1	-41,1	0,469922	3,19	-48,9286	-1,08158

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sly-miR167h-1	aaauucgugauggcauugacagguaaggcugcc acauaucugaucuuuccucgagauuaauuuu aacuaaaaggaaaguuuagauaucgucggcag cuucaacugcuagugcugcacggaugu	122	22,95082	27,86885	18,85246	30,32787	41,80328	58,19672	1,088235	1,217391	-57,4	-57,4	0,173226	4,72	-47,0492	-1,12549
sly-miR167h-2	uuccgcgaacacaucaacaggugaugcugccac augaucugaucuuuccucgacggagcaauag aaaaguuuagauaucgucggcagcuucaacug cuagugguucacgauc	113	22,12389	26,54867	24,77876	26,54867	46,90265	53,09735	1	0,892857	-45,6	-45,6	0,023733	9,57	-40,354	-0,86038
sly-miR167h-3	agcaguugaaggcugccagcaugaucuaaacuu uucuaugcuccugacaggaaagaucagauc auguggcagcauaccuguuug	85	23,52941	27,05882	22,35294	27,05882	45,88235	54,11765	1	1,052632	-39,8	-39,8	0,299069	2,42	-46,8235	-1,02051
sly-miR168	cagucuccuauucaguugaugcaaggcgggac ccaacucagcaacaacauuaaaaaaagau ucuuuuuaccgguaucgucgccugccgucag cuaccgccauugugccggcagguaggucgccg accugcaccagcgaaugagaac	154	23,37662	26,62338	28,57143	21,42857	51,94805	48,05195	0,804878	0,818182	-56	-53,3	0,081527	15,07	-36,3636	-0,7
sly-miR168a-1	guuuucuaucgcuuggugcaggucgggaccu accucgccggcaacaauugcgguaucgacggc gacggcagcguaccgguaaaaaagaucuuau uuuacauuguuugcguauguuugguuccgc cuugcaucaacugaaaggagacug	154	28,57143	21,42857	23,37662	26,62338	51,94805	48,05195	1,242424	1,222222	-70,3	-69	0,01763	13,49	-45,6494	-0,87875
sly-miR168a-2	ccucuaauucgcuuggugcaggucgggaccuca uucgccggcgccgggaauaauugcggagcaacg acggcgguuuuuuuuacuaaaagcugacacc gacggauagauuuugauuagcggcgaaauuu ggguccugccuugcaucaacugaauggag	160	29,375	21,25	23,75	25,625	53,125	46,875	1,205882	1,236842	-66	-63,5	0,016082	21,23	-41,25	-0,77647
sly-miR169a-1	uuuuauaguuuucggcaaguuguuucuggcuau aguuuugcucucucuuucucaugucauccucguu agaccuauuuuuuccuacuuucgagaagaau uuucaauuuugagagaguguuauuugauacga aggauuuuuuuuuuacuuuuuuuuuuuuuuu uacguuuuuuuuuuuuuuuuuuuuuuuuuuu auaggaaaaacacuaaggaguuuaggguggu guagggguguuuagauugggugagauacagaga uguauuugaaggcggggaagagacaaccaugu uaauuacgacuuuguaauuuuagug	315	22,85714	27,93651	12,06349	37,14286	34,92063	65,07937	1,329545	1,894737	-81,8	-75,6	2,12E-05	58,58	-25,9683	-0,74364
sly-miR169a-2	ugucuaagagaguuuauuguaagaggguagg aguggagugcagccaaggauagacuugccgaga uguuguagccuauagcauagacauucggcag gucaucuuuggcuacauuuuuuuucuccuau ucauguuuuuuuuuuuuuuuuuuuuuuuuuu	158	24,68354	27,21519	15,18987	32,91139	39,87342	60,12658	1,209302	1,625	-81,6	-81,6	0,06643	4,17	-51,6456	-1,29524
sly-miR169b-1	cauuugauagacaaucuaaaauuuuugguu auaagguuuugcauaguuuagagagaucaag uugcagccaaggauagacuugccggaccaaag	202	19,30693	25,24752	18,81188	36,63366	38,11881	61,88119	1,45098	1,026316	-73,3	-73,24	0,00086	21,53	-36,2871	-0,95195

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sly-miR169b-2	uagucuauagaggguuuugcaugaagauguagaga gugaaguugcagccaaggagucuuugccggac cauaaaauugcuaggguuuuauaguuuucggcaa guuguucuuuggcuauguuuugcucucuuc ucaugucauccguuaga	147	25,17007	22,44898	17,0068	35,37415	42,17687	57,82313	1,575758	1,48	-66,5	-63,7	0,007425	12,67	-45,2381	-1,07258
sly-miR169b-3	uugaauagacaugucuuauuaucauguuaaagu cuugcaugagggaacaaggucuaugaaauugca gccaaaggauagacuuugccggcaagcucgaucaa uucugcuuacugucuggcaagucuuuuuuggc uacauaucugccuacuuuuucuaugccagauu uuuuuagaacagcuguuuguuu	184	20,65217	24,45652	19,02174	35,86957	39,67391	60,32609	1,466667	1,085714	-73,5	-68,6	0,013016	17,26	-39,9457	-1,00685
sly-miR169d	augagaagaggagucuauguauagaaaagag ucuuauuugguagccaaggauagacuuugcugc accuuuuccgaaauugucuuuucguuacauagg ggucaggcaggucacuuuuagcuuacuuagaca agcucuuucuuuucaugcaagacuuucucuuu ucc	164	21,95122	23,78049	20,73171	33,53659	42,68293	57,31707	1,410256	1,058824	-71,9	-71,9	0,007556	9,02	-43,8415	-1,02714
sly-miR169e	uaggaggagaggccuuacauagaauagaagag uuucuaauuuguuuagugccaaggauagacuu ccuuuacauaauugcuuuuuguaaauggaaa ugauuacaacacuuuucuaugguauugggaaa ugaguggcaagcaucuuuggcgacuuagacaaa cucuuuuuugcauguuaguccaucuuuuccu auuauuugaagaggguuuuuauagaaguugag aguauuuuuuagugccaaggauagacuuugccu acuucuuuugauauauaguuuuuuuuuuuu auugacaauuuuugcauuuuggcugagggcaa guuauccuggcuauucuaugcucgaaau uuuacuguaagaccuuauucuuuauuggc	193	20,72539	26,94301	17,09845	35,23316	37,82383	62,17617	1,307692	1,212121	-78,9	-78	0,009237	15,47	-40,8808	-1,08082
sly-miR169f.1	uuuauuugaagaggguuuuuauagaaguugag aguauuuuuuagugccaaggauagacuuugccu acuucuuuugauauauaguuuuuuuuuuuu auugacaauuuuugcauuuuggcugagggcaa guuauccuggcuauucuaugcucgaaau uuuacuguaagaccuuauucuuuauuggc	188	19,14894	28,7234	12,76596	39,3617	31,91489	68,08511	1,37037	1,5	-76,8	-74,1	0,003635	16,1	-40,8511	-1,28
sly-miR169g	gguaaaaagaagagugucuuacauagaaggguaa gugccuuuuuagauagccaaggauagacuuugccu gcaucuuuuuuuuuuuucuuugagcuaagcuugu gauauuuuaucaugauauagacauauacaag cauuucuuuuuugagggcaggcagucuccuuu ggcuacucgaauagguuccucucuuuauugcu agacuuucuuuuuu	208	20,19231	25,48077	19,23077	35,09615	39,42308	60,57692	1,377358	1,05	-82,7	-82,4	0,004952	20,96	-39,7596	-1,00854
sly-miR169m	aacaacaacagcuguuuuauuuuuuuuuuucuggc augagaaaaugaggcagauauagcgaauuuuu ugacuuugccagacauagaagcagaauuagaucga gcuugccggcagaucauccuuggcugcauuuca augaccuuguuccuaucaagacuuuuuaua	184	19,02174	35,86957	20,65217	24,45652	39,67391	60,32609	0,681818	0,921053	-60,1	-55,1	0,006681	20,24	-32,663	-0,82329

	ugaauaaagacaugucuaauuca															
sly-miR170-1	cucuaugaaaagaaacucugauauuggccug guucacucagacacauauuuuugauugauu uuacuuuugauugagccgugucaauaucucag uuccuuuucacuauc	112	14,28571	25	19,64286	41,07143	33,92857	66,07143	1,642857	0,727273	-31,7	-31,7	0,238476	5,81	-28,3036	-0,83421
sly-miR170-2	uaauuggccugguucacucagacaacaaaug aaacuaauuuugaaugguuugauuuuugcuuu ucguuugauugagccgugccauau	89	20,22472	25,8427	15,73034	38,20225	35,95506	64,04494	1,478261	1,285714	-32,7	-32,7	0,24661	6,11	-36,7416	-1,02187
sly-miR171b-1	cuaacgagauauuggugcgguucauuagaaa gcgcacuuuuuuauauagaacuuugcuuuu uaauugagccgugccauaucacguauu	92	18,47826	29,34783	17,3913	34,78261	35,86957	64,13043	1,185185	1,0625	-42	-42	0,591447	1	-45,6522	-1,27273
sly-miR171b-2	gucaaaaaggauauuuugaaguugcaagg auaucuacgagauuugguugcgguucaauga gaaagaaguuguuagaauaaguuuuugacccua uuuuuugauugagccgugccauaucacgugu cacuauucuguaaaucucuucuuuuuuuuu	159	20,75472	27,04403	14,46541	37,73585	35,22013	64,77987	1,395349	1,434783	-55,1	-54	0,063395	8,77	-34,6541	-0,98393
sly-miR171b-3	ugaucaacuugcgauuugguugguucauu agauaacaauuccacguaaaauuagaguu uguuuuuugauugagccgugccauaucacau guaagaaaaaac	110	19,09091	33,63636	14,54545	32,72727	33,63636	66,36364	0,972973	1,3125	-42,6	-42,6	0,138369	4,04	-38,7273	-1,15135
sly-miR171c-1	uaauuggugcgguucaauagagaagcaguacu aagaacauuuugagucuuuuuugauugag ccgcgcacauu	76	22,36842	27,63158	15,78947	34,21053	38,15789	61,84211	1,238095	1,416667	-41,2	-41,2	0,523609	1,25	-54,2105	-1,42069
sly-miR171c-2	ggaagaagcgauuugguugguucaauccga agacgaauuuuugcuuuuuuuguaaagaacg aucucagauugagccgcgcaauaucacuuuu au	99	23,23232	29,29293	18,18182	29,29293	41,41414	58,58586	1	1,277778	-42,7	-39,7	0,259445	4,15	-43,1313	-1,04146
sly-miR171c-3	uagagaagcgauuugguugguucaaucuga agacgaguuuacguuuuuuucaguaaagaac gaucucagauugagccgcgcaauaucuuuuc uuuu	100	23	28	16	33	39	61	1,178571	1,4375	-45,7	-45,7	0,228617	3,56	-45,7	-1,17179
sly-miR171c-4	aaucgugauauuggcaccgcucauuuuuuu acgaaguucuaauauaagaagugcgcuuuc uaauugaaccgcaccaauaucucguuag	92	17,3913	34,78261	18,47826	29,34783	35,86957	64,13043	0,84375	0,941176	-28,5	-28,1	0,473593	1,92	-30,9783	-0,86364
sly-miR171f	augaugaagaagaagacaugcgugauauugg uuuggcucacuaauuucugauucggaacag auaagagauugagccgaaccauauacucuuug uaauucuuuauuacc	112	20,53571	31,25	18,75	29,46429	39,28571	60,71429	0,942857	1,095238	-54	-52,8	0,077162	7,88	-48,2143	-1,22727
sly-miR171i	uagauauugaugcgguucaauucgaaagacau gguuagauauuagcuuuguuuuuug auugagccgcgcucauauucuu	86	22,09302	27,90698	13,95349	36,04651	36,04651	63,95349	1,291667	1,583333	-46	-46	0,461871	1,81	-53,4884	-1,48387
sly-miR172d-1	cacagucguuuuuuuuuuuuagcagcacuuu agaauucuaauuauucugacauuuuuuuuagca auuuuuuuguaucuuugaugcugcauuag cauuuuuagcuaauu	111	15,31532	37,83784	15,31532	31,53153	30,63063	69,36937	0,833333	1	-42,9	-42,9	0,375882	3,68	-38,6486	-1,26176

	uuuaaaacccuacgggcgauguggggauc uugaugugcugcagcggaauaagacu															
sly-miR172d-9	uuuagucguuuauugcuaaagcagcauca agauucacauuuauugcuuuuaaagucag aaauuuagagaauucuaaagugcugcauuu caacaacgacugug	111	15,31532	31,53153	15,31532	37,83784	30,63063	69,36937	1,2	1	-37,7	-37,7	0,147351	5,22	-33,964	-1,10882
sly-miR172j-1	uuugccgcugcagcaucaagaauuccacac aucgcccguaggguuuuuuuuuuuuuuuu cccuauuagcuauugugaauucugaugauc uccacccgcaaa	109	16,51376	30,27523	25,68807	27,52294	42,20183	57,79817	0,909091	0,642857	-46,1	-45,1	0,173853	3,7	-42,2936	-1,00217
sly-miR172j-2	uagagucuauguuagaugaugcagcauac aagauucccaagagagaaaaaagagacuuu gaacuauuuuuuuuuuuuuuuuuuuuuuu auuuuuuuuuuuuuuuuuuuuuuuuuuuuu ugugaauucugaugauguugcaucccaaca uugacugau	169	13,60947	36,09467	17,15976	33,13609	30,76923	69,23077	0,918033	0,793103	-54	-54	0,111992	14,01	-31,9527	-1,03846
sly-miR1886a	acguugucucaauucucacugacugagua ggcguuugaccaugggauaucauacacgaa ugguaucgugagagaaucacgcguuuggaca uuugauuucacguugauuuccaucucaugau cagaguuagagagcauuccacucgcauacuc agacauucaauguacugaugucaauug	187	20,32086	26,20321	20,32086	33,15508	40,64171	59,35829	1,265306	1	-57,2	-38,6	0,001123	49	-30,5882	-0,75263
sly-miR1886h-1	uauuguaucgugagauaggaucagcguuug cauguaauuuuacguuugauuuccaucuca uucuuuu	71	21,12676	25,35211	12,67606	40,84507	33,80282	66,19718	1,611111	1,666667	-33,4	-33,4	0,266164	3,37	-47,0423	-1,39167
sly-miR1886h-2	gccaugagauaccguuacguggccuuugcca ugagauaucauacacgaaugaaucgugag auugaaauucguguuuuggacauuuuuuuu uugauuuccaucucaugauuucuuuuuuu ugugauuucguauuucccaaaaaucaugau gagaauuucuuuac	174	18,3908	29,88506	15,51724	36,2069	33,90805	66,09195	1,211538	1,185185	-58,6	-50,17	0,005782	41,96	-33,6782	-0,99322
sly-miR1917-1	aaaauuuacuuuuagcggcgaauuuuuu auuuuuuuuuuuuuuuuuuuuuuuuuuu uuaguuagugucuuuagaaacaaugucgcu aggcuuuuagggacauuacaagagugacaag ugccgcuaaaaauucauuu	148	16,89189	37,83784	14,86486	30,40541	31,75676	68,24324	0,803571	1,136364	-41	-39,8	0,019519	12,11	-27,7027	-0,87234
sly-miR1917-2	ucucuacaauuuuuuuuuuuuuuuuuuu aaauagauacauuuuuuuuuuuuuuuuu uuuaccggcgaauuaguuagugucuuuagau aaugucgcuuuuuuuuuuuuuuuuuuuuu agagugcuuuuuuuuuuuuuuuuuuuuu uuugccgcuaaaagcucuuuuuuuuuuuu uuuuuuuuuuuuuuuuuuuuuuuuuuuu	191	16,75393	34,55497	16,23037	32,46073	32,98429	67,01571	0,939394	1,032258	-53,1	-50,8	0,001477	31,8	-27,801	-0,84286
sly-miR1918	guagcucaguugguuuuuuuuuuuuuuu auuuuuuuuuuuuuuuuuuuuuuuuuuu gcauuccuccuucauuuuuuuuuuuuuu uuuuuuuuuuuuuuuuuuuuuuuuuuuu	166	19,27711	32,53012	16,26506	31,92771	35,54217	64,45783	0,981481	1,185185	-69,6	-68,9	0,033946	9,15	-41,9277	-1,17966

	augcuacaagguggagaaucaacacccgcu acagauggaaguucaaaaucauaua agcuac															
sly-miR1919a-1	uccgaaucgcuccgacgcccuuugauguacau cuuccgguaaguccugucgcagaugacuucgcc cauuuuauagaaccacacuuuuuuuuugaa uucuaugugguaggacgagagucaucugugac aggauauggaagaucgaguuaucaaaaggcuu auugggcguuccuu	177	22,0339	23,16384	22,0339	32,76836	44,0678	55,9322	1,414634	1	-82,8	-78,1	0,030296	16,5	-46,7797	-1,06154
sly-miR1919a-2	gacgccuuugauguacacauucucgguauguc cugucgcagaugacuucgccccuuaaggac cacacuucuguaaaucuaauuuuuuuuugaa caauguggcaggacgagagucaucugugacag gauaauggaagaucaguuaucuaaaggcuua	160	21,25	27,5	20	31,25	41,25	58,75	1,136364	1,0625	-68,6	-67,7	0,03108	12,76	-42,875	-1,03939
sly-miR1919a-3	ccgacgccuuugauguacacauucucgguaug ccugucgcagaugacucucgacuucugauua agccccuucucuaagucuaauuuuuuuuugaa ucaaugugguaggacgagagucaucugugaca ggauuuuggaagaucgaguuaucaaaaggcg uuu	164	22,56098	23,78049	20,73171	32,92683	43,29268	56,70732	1,384615	1,088235	-76,5	-76,02	0,005935	14,58	-46,6463	-1,07746
sly-miR2101	uucauuuauuuuugucacacucugaggcugg ccucauuuuuauuuugguaauuuuaucaag ugagcaucaugaaaucca	82	15,85366	26,82927	20,73171	36,58537	36,58537	63,41463	1,363636	0,764706	-23,6	-23,6	0,482662	3,51	-28,7805	-0,78667
sly-miR2111a	ugguaucugcaccugagguuuagaucaauu uauaauuacuggaucuaguccuugggaugca gauuauac	71	21,12676	25,35211	16,90141	36,61972	38,02817	61,97183	1,444444	1,25	-36,5	-36,5	0,228867	2,13	-51,4085	-1,35185
sly-miR2604	uguguguguguaauauauauuuuggguuu gcuagaacacacccacuaauuuuuuauuggaa guguuuuagcaagcuaacccuuuaggugua uuuauacuuuuuaguuauuacacucuaaaa uacucuuuuuuuuuuuaguggguguauccu agcaaaugccuauaggauuuugcuagaaucac ccacuug	199	17,08543	29,64824	15,57789	37,68844	32,66332	67,33668	1,271186	1,096774	-69,4	-66,3	0,0076	28,58	-34,8744	-1,06769
sly-miR319-1	gaugggauaagggaaggaaaucaucaguccaa acaaggugguauauuuugggcugaucuuugcug cugaaucauugguucacacauuuuuuauacac auacaaggauauauacauauguugugcauca augaugcaggagcugaguuucaguuuuggcuac uuuuuuggacugaaggguuuuccuucacac cccaa	197	21,82741	28,4264	17,7665	31,9797	39,59391	60,40609	1,125	1,228571	-87	-85,3	0,069127	7,08	-44,1624	-1,11538
sly-miR319-2	aaggaaacuguuuaguccaaccgaaggugggg uauuggaacugaucuuugcugcugaaucauug gcucaugagcagucuaaagaagauuauaac auucuggacauguuucuguccaagauugcag gagcugagcucgguuuuuaccgccuuuuuucuu	179	25,13966	23,46369	20,11173	31,28492	45,2514	54,7486	1,333333	1,25	-87,2	-86,4	0,039016	6,34	-48,7151	-1,07654

	ggacugaagggguuccuuc															
sly-miR319a-1	gaaaauaaggagcucuccgguccaguccga ggcacucaaaaggcuaaaaacacagcugacgac ucguugauuuccaaacaucaagaagcauuu uuugaaaauugguguguuuaagauucaacgaug cgugagcuauuuuggcuagcguugucacguc uuggacugaagggagcuccuauuaaa	187	23,52941	28,87701	20,32086	27,27273	43,85027	56,14973	0,944444	1,157895	-82,3	-77,1	0,035147	22,95	-44,0107	-1,00366
sly-miR319a-2	augguauaagagagcuuccuuuaguccacuca uagguagacgaaggauuuugaauuauucccgac cucuuuauucaaaacgcaauaggaagaua aucuuauacuauugugaugugugaugauc gggagauaaaauucucuccuuuuuauucugugcu uggacugaagggagcuccuuuuaccuuc	189	20,63492	26,98413	18,51852	33,86243	39,15344	60,84656	1,254902	1,114286	-93	-92,3	0,016253	9,9	-49,2063	-1,25676
sly-miR319c-1	uaggagcuccuuuacagccaagaccgaggagac gaggagcggcaagagcugccuagucaugcaua uugguuauccuuacaacaaauuuauuguauag uguuauagauuauaccaguugcaaggaggag caacuacuuccgcuacuugucucuuuuuug acugaaggagcuccu	177	24,29379	29,37853	21,46893	24,85876	45,76271	54,23729	0,846154	1,131579	-88,9	-88,9	0,077301	5,76	-50,226	-1,09753
sly-miR319c-2	caagagagcuuccuacagcccacucacggagga gaaauuggguuugaauuagcugccgacucauuc auccaaccacucagugaaaggauagguuuug ugcuacuugugauugagugaaugaugcgggaga uaguuuucuauccucucuuuccuugcuuggac ugaaggagcuccuu	177	25,42373	23,72881	22,0339	28,81356	47,45763	52,54237	1,214286	1,153846	-76,6	-65,4	0,013492	17,41	-43,2768	-0,9119
sly-miR319c-3	agagcuuccuuuaguccacauagggaacga uaggguucauuuugcugccgacucauuauc aauguuagaggucuuugaauaauagcugccacc ucagcaacugagugaaugaagcgggagucacaa guugagucuuagcucuccugucacugacuga agggagcuccc	171	26,31579	25,1462	21,63743	26,90058	47,95322	52,04678	1,069767	1,216216	-81,6	-75,1	0,053658	11,65	-47,7193	-0,99512
sly-miR3627	gagagagauugagggauucuuugucagggaga gauggcacuuuccauuccuuuuauuugguaca augccuaaauggaaccauuuagugccucugu cuuucgacacgaugcucacaaauucuaau	125	22,4	27,2	20	30,4	42,4	57,6	1,117647	1,12	-47,3	-47,3	0,120122	5,38	-37,84	-0,89245
sly-miR390a	ugcaugggagaauucuguaaagcucaggaggau agcgccauugaugacucuuuugcuuuuuu cacauuuuagcgcuauccauucugauuuuacac ggcuuuuauauc	110	22,72727	23,63636	21,81818	31,81818	44,54545	55,45455	1,346154	1,041667	-55,8	-55,8	0,573051	1,42	-50,7273	-1,13878
sly-miR390b	ggcauggggauucuaaagcucaggaggau agcaccuagauuacauuuauuggcuaucua agcgcuauccauucugaguuuuuagguucuu caugcuc	103	22,3301	26,21359	21,35922	30,09709	43,68932	56,31068	1,148148	1,045455	-50,9	-50,4	0,094194	7,05	-49,4175	-1,13111
sly-miR393a	uuccaaagggaugcgauuaguccugugucca aaauuuuuuaccuagggacuaugggaucg	78	21,79487	26,92308	20,51282	30,76923	42,30769	57,69231	1,142857	1,0625	-39,4	-39,4	0,178529	2,76	-50,5128	-1,19394

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sly-miR394a	guagagccauuuuggcacuuuguccaccuccca gcuuugcugaggcacugaggaggggccaagug ccaacuagcucugca	81	28,39506	22,22222	27,16049	22,22222	55,55556	44,44444	1	1,04545	-43,1	-42,8	0,246535	3,22	-53,2099	-0,95778
sly-miR394b	agaugaagaaaaaaaauagaagauaaauag uuucacggagguuugacaaaaggguuuuuaca gaguucuuuggcacuuuguccaccucccuguu cuuuuuucgagaaaaaagaagaagggggaa gcaagauuuaguguggaggugggcauacugcc aaauagagcuguguuugguuucuuuuuuuuac ccucgugauacacgucagaagaagauagagagu gauuuugaucg	235	25,53191	31,06383	14,46809	28,93617	40	60	0,931507	1,764706	-81,4	-75,77	0,005067	29,15	-34,6383	-0,86596
sly-miR395a-1	ugcugaaguuuuugggggaacuuuggacuca cuuugaauuuuacacaacaauagaagugu aggaguccugcuauggaugaugaacaugaua guucauguaaaaaucuaauaaggugauccua gaguucacuugaccacuucauga	151	22,51656	30,46358	15,89404	31,12583	38,4106	61,5894	1,021739	1,416667	-49,2	-48,9	0,072932	12,8	-32,5828	-0,84828
sly-miR395a-2	gaugcucugcugaaguuuuugggggaacuccu gggcucacucugaaaauuuauagcauuuuac caauagaaguuuggagugcugguuguggaug auaacaugauagucacguauaaaucuaucg agguguuccguagaguuuccuugaacacuua ugagggcuua	170	25,88235	26,47059	15,88235	31,76471	41,76471	58,23529	1,2	1,62963	-60,7	-60,7	0,098269	12,98	-35,7059	-0,85493
sly-miR395a-3	cuaucaggguuuccuagaguuccuugaccg cuucauuugggcuuacuucauuguuugaugcc cugcugaaguuuuugggggaacucuggacuc acuuugaaa	107	23,36449	17,75701	22,42991	36,4486	45,79439	54,20561	2,052632	1,041667	-50,1	-50,1	0,20452	5,59	-46,8224	-1,02245
sly-miR395a-4	auaaaucuaucaggguuuguccuagaguuua cuugaucacuucaugaggguuacuuugauau uagaagucuuugcugaaguuuuugggggaacuc cuggguuuacuuugaaaauuacgcaacaagu auauauaaugcugaugagucguuuuagcu agagauaugaauacaauuugaauucacguau aaaacuaccucuggaguuuccuugaccacuuu augagagcuauuuuuuauuuguuuagaucc ugcugaaguuuugaggggaacauucgaaucca cuuugaaaauuaca	302	19,86755	30,46358	15,23179	34,43709	35,09934	64,90066	1,130435	1,304348	-80,6	-80,3	0,000406	54,7	-26,6887	-0,76038
sly-miR395g	augcccuuguaaguuuuugggggaacucuu gacucacuuuugaaaauuacacaaaaauag aaguguaugauuccugcuguggaugaagaac auaauguuacaguuauaaaucuaauaaggugu uccuagaguucccuugaccacuucaugagggc uu	163	22,08589	28,22086	17,79141	31,90184	39,8773	60,1227	1,130435	1,241379	-61,5	-61,5	0,089717	14,41	-37,7301	-0,94615
sly-miR396a	aagaaaggguccuuuuuguuuuuccacagc uuuuuagaacugcaucuaauuucauucau	144	18,75	33,33333	13,19444	34,72222	31,94444	68,05556	1,041667	1,421053	-57,4	-54,21	0,041265	14,37	-39,8611	-1,24783

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sly-miR396b	agucaugcuuuuccacagcuuuuugaacuuc uuucugcuaaaauuuugaucucuaaaauugauaa uuuugagauagauuuugaagcuauagaagucc aagaaagcugugggaaaagauggcaa	122	19,67213	31,14754	14,7541	34,42623	34,42623	65,57377	1,105263	1,333333	-49	-45,6	0,008986	16,78	-40,1639	-1,16667
sly-miR396g-1	aguccaaagcuugccaucuuuuuccacagcuuu cuuggacuuucauagcuucaaaucucaucuca aaaauuacaaauuagagaucaaaauuagcaa gaagaagucaagaaagcuguggaaaagcaug acuaggacuugguca	144	16,66667	34,02778	20,13889	29,16667	36,80556	63,19444	0,857143	0,827586	-51,2	-50,7	0,03314	10,36	-35,5556	-0,96604
sly-miR396g-2	gacccuauucuguaucuuuccacagcuuuauuga accgcaacaacaauaugaaucuuuuuuuuuu uuucaauaauagaauuagaauuagauagcagu ucaagaagcuguggaaaaacacaaaaggac c	130	14,61538	36,92308	19,23077	29,23077	33,84615	66,15385	0,791667	0,76	-35,3	-34,3	0,027803	16,13	-27,1538	-0,80227
sly-miR397-1	uuauugcagaguacuuaagaaacauugauugagu gcagcgugaugagacauuuuagagaaguccugc auuugggccuuccucauuuuucaucaacgcua aacucgaucauguuuuuuuuuucucugaagg	127	20,47244	25,98425	18,11024	35,43307	38,58268	61,41732	1,363636	1,130435	-56,5	-56,1	0,067727	7,06	-44,4882	-1,15306
sly-miR397-2	cccuucagagauuuuuuuuacauagcagaguuu agcgugaugagaaaaugagggaagcccaauu caggacuuucuaaaauaugucaucaacgcugcac ucaaucauguuuucuaaguacucugcaauaa	127	18,11024	35,43307	20,47244	25,98425	38,58268	61,41732	0,733333	0,884615	-48,9	-48,9	0,06417	8,93	-38,5039	-0,99796
sly-miR398a	ggguugauuugagaacauauguagugcavau uuuguuuguaacaauuuaccguuuauaaauau gacacauauguucucaggucgccccu	90	18,88889	26,66667	15,55556	38,88889	34,44444	65,55556	1,458333	1,214286	-34,2	-32,3	0,030062	15,31	-38	-1,10323
sly-miR398b	gguaaucaacaggggcaacuugagauacacau uugucauuuuuuuuuuuugauuugauucgau gaucagauaucucaacauguucucaggguua ccccuguugaauuag	111	19,81982	23,42342	17,11712	39,63964	36,93694	63,06306	1,692308	1,157895	-50,6	-48,5	0,160171	11,42	-45,5856	-1,23415
sly-miR399a-1	uggggaguaagaaaacagugcaauucuccu uuggcaauuagauagcaaacccuauauauau auauauauauauuuguuuugauacacauuau auuauuuuugccaaaggagauuugccuguca uuuucuccug	140	15	32,14286	17,85714	35	32,85714	67,14286	1,088889	0,84	-62,6	-53,3	0,018557	19,05	-44,7143	-1,36087
sly-miR399a-2	cgaggagaagaauagcaggggcaauucuccuu ggcaagauauauauuuguaugcaaaacau auauauauauauauauuagggguuugcaua uucuuuugccaaaggagauuugcacuguuauu ucuacuccca	140	17,85714	35	15	32,14286	32,85714	67,14286	0,918367	1,190476	-66,5	-66,5	0,050702	8,41	-47,5	-1,44565
sly-miR399a-3	uuauaagcgaaacagugauaggguacucucu auuggcaugcaauuguauuuuucagcugacac gccaaaggagagcugcccuuuacugucucugc	103	21,35922	26,21359	22,3301	30,09709	43,68932	56,31068	1,148148	0,956522	-50,3	-50,3	0,501836	1,86	-48,835	-1,11778

	uuaauc															
sly-miR399a-4	gaaaacuagauuuuguaaaugaaaaauauuuc uugaauuuguaagggaaacagugauagggcua cucucuaauuggcaugcaauuguaauuuucagc ugacacgccaagagagagcugccuguuacug ucucugcuuaauacuauugccuucggguacuc uuauuacagugugauuccuagagcuauuuu ccacuuuucugagugaaucguugugucucag uuauuccaaaauacuagucuguuuacuuuguu gugaacccaccaauuauuugaugugaauau ucaaauguacauuuuuuuuuagagcaguua ua	323	17,95666	29,10217	17,33746	35,60372	35,29412	64,70588	1,223404	1,035714	-83,1	-77,9	6,37E-05	57,13	-25,7276	-0,72895
sly-miR399a-5	ugaugaagcggaagcaugagaaaggaagucgu uggugaauagaaaauaagggaauuagugauagg gcuacucucuaauuggcaugcguaauauauugu acagugacuccaaucacuguaucgcauauuu uaaccgauacgccaagagagcugccugcua cugucucugcuuaauauauaacucaagau cguucuuauacuccgaugcagaa	217	22,11982	32,25806	18,43318	27,18894	40,553	59,447	0,842857	1,2	-71,1	-70,7	0,001599	15,72	-32,765	-0,80795
sly-miR399d-1	aguuauguguggaugcauacugggcuauu ucuuuggcaauauuuuacacuaauuuuuggug caauuuuggucauuuuuugccaaagaagauuu gccccguaaaucuuuacauacaauuuu	123	17,07317	29,26829	15,44715	38,21138	32,52033	67,47967	1,305556	1,105263	-50,4	-48,7	0,072031	15,36	-40,9756	-1,26
sly-miR399d-2	aaaaucaauuggucaagugagacucaaguua uguguggaugcauuacugggcuauuucuuuu ggcaauuuuuuacacuaugauuuggugcaau uuggucaucuaauugccaaagaagauuugccc guaaaucacucauacauuuuagagauucuuu gaaugauaug	171	18,71345	30,40936	15,20468	35,67251	33,91813	66,08187	1,173077	1,230769	-56,8	-56,8	0,018955	16,14	-33,2164	-0,97931
sly-miR399d-3	aacagugauaggguacucucuaavaggcauau gccguuuuacacacauuacagcugacacgcaa aggagagcugcccuauuacugucu	89	20,22472	28,08989	25,8427	25,8427	46,06742	53,93258	0,92	0,782609	-36,9	-36,9	0,514396	4,21	-41,4607	-0,9
sly-miR399i-1	uuauaagagaaaacagugguaggcuacucucu auuggcaugcacuuauuuuuuacugacau gccaaaggagagcugccuguuacugucucugc uuaaug	103	21,35922	28,15534	19,41748	31,06796	40,7767	59,2233	1,103448	1,1	-47,8	-47,8	0,232477	5,51	-46,4078	-1,1381
sly-miR399j-2	ggaaaauuuacuaaaauauguuauuauuggug ugcuuuuuuagugaaacaguuguaggcaauu cuccguuuggcagauauaugauuugaugua aucugccaaaggagagugcccuauugauugcc ucugcuuauuauuguuua	146	21,23288	29,45205	12,32877	36,9863	33,56164	66,43836	1,255814	1,722222	-60,2	-57,9	0,029245	7,56	-41,2329	-1,22857
sly-miR399j-3	agggcuaacacucuaauuggcaugcaacuugauc aaauuuuugagcugaaugccaaaggagaguu gcccuu	70	22,85714	31,42857	20	25,71429	42,85714	57,14286	0,818182	1,142857	-29,2	-29,2	0,482753	2,04	-41,7143	-0,97333
sly-miR403	ucaggaagaggcauauuacacguuugugcgug	112	17,85714	27,67857	19,64286	34,82143	37,5	62,5	1,258065	0,909091	-44,5	-41,8	0,050983	8,89	-39,7321	-1,05952

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sly-miR403a	auuggaaaagccauuuacgagcuugugcgug aaucuaagcaaaacaauaacaguuuuucagauga aaagaguuguuagauuacgcacaaaacgugaa auaugccucuccuga	112	19,64286	34,82143	17,85714	27,67857	37,5	62,5	0,794872	1,1	-42,5	-41,2	0,093861	9,01	-37,9464	-1,0119
sly-miR408-1	aaaagggaaggauuguggggagaggagccag ggaagaggcgagugcauggaauaggcaaaagcaa aaaauugcacaucucaugcucuggcucgucgccg ucuauccauaccacaccauuuuuaccucuaa	128	25,78125	32,03125	22,65625	19,53125	48,4375	51,5625	0,609756	1,137931	-46,9	-41,7	0,028077	9,09	-36,6406	-0,75645
sly-miR408-2	uauaggauagacgggagcgagccagagcaugag augugcaauuuuuugcuuugccuauuccaugca cugcccuucccugggcucuccucu	88	23,86364	18,18182	27,27273	30,68182	51,13636	48,86364	1,6875	0,875	-36,5	-36,5	0,528477	1,94	-41,4773	-0,81111
sly-miR408a	acaggggacgagcgagcgcaugagauuacaau uuuuauuaguuguccauuccaugcacagccucu ucccuggc	72	23,61111	23,61111	26,38889	26,38889	50	50	1,117647	0,894737	-37,3	-35,8	0,71327	0,93	-51,8056	-1,03611
sly-miR437	uauaguguucuuuuccaaacaagacauuuuu acaauuggaacuaagguaauuuggaacacaugu aaaguuagagauuguuugacuucuuauuaccaa guuuggaucccaaggcauugaagugugcucuuu ugggauauuucugcuuuuuuuuuuuuuuuuuuu uugguuuauacuaaacuuggaaaaauuauuggu aucacaugaugugguuuuucauguuuggggca gacacugga	233	21,88841	30,04292	12,87554	35,19313	34,76395	65,23605	1,171429	1,7	-57,4	-46,45	2,47E-05	48,13	-24,6352	-0,70864
sly-miR4376	aaaaggcuugcuacgcaggagagauaugcug gacgauagagaaaaugggauuuuuuuuuuugg ccagcaucauacuccugcauauuaaggccuaaa	96	23,95833	34,375	16,66667	25	40,625	59,375	0,727273	1,4375	-46,5	-46,5	0,293278	3,56	-48,4375	-1,19231
sly-miR477	agcuaggcauugcuugugucuccucaag ggcuccucuucaagauccuuauaaacaagaaa gcaugagggggaggaguuuuguaggguagaga caacaagaaaauccuugc	114	25,4386	27,19298	21,05263	26,31579	46,49123	53,50877	0,967742	1,208333	-57	-56,5	0,1357	7,35	-50	-1,07547
sly-miR477a	gccucuccucaagggcucucuccugcaugcu uuuuauuggggaagagcucuaagcaggagag agcca	70	25,71429	20	27,14286	27,14286	52,85714	47,14286	1,357143	0,947368	-35,8	-34,4	0,125649	3,54	-51,1429	-0,96757
sly-miR477b	cacucuccucaaggcuucuggcuuuuuuuugc uuuuugugcuauugcuagaggucuuucgagug agaguga	72	23,61111	22,22222	22,22222	31,94444	45,83333	54,16667	1,4375	1,0625	-35	-29,8	0,189934	4,51	-48,6111	-1,06061
sly-miR482a-1	guugaaagggaugagagauuugggaaguuguu gguuugggguuggguugaaagauuuuuaaaau cuauuuuuuuaagagauuuuuuuuuuuuuuuuu cuccauaccuagacuuuccacuaugcuuuccc uuuuuuu	136	22,79412	25	17,64706	34,55882	40,44118	59,55882	1,382353	1,291667	-62,7	-62,6	0,019361	10,29	-46,1029	-1,14
sly-miR482a-2	gaaaaucauuggggaugugagauuggaaagc uuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuu	91	19,78022	18,68132	18,68132	42,85714	38,46154	61,53846	2,294118	1,058824	-42	-42	0,361411	1,97	-46,1538	-1,2

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sly-miR482c	ggaagaggaggagggaauugggaucuuuugg agugggugggagggaaaaauuuguauuuuuu uuuccuacggaaaaaagagagauugagau uuuuccuauuccaccuugccaauggcuccag ucauuuacuccuuuuc	145	24,82759	27,58621	13,7931	33,7931	38,62069	61,37931	1,225	1,8	-59,1	-54,5	0,008533	15,09	-40,7586	-1,05536
sly-miR482d	gauuuuugggaagcuuuuggcgugagcggugg ggaagauagaucaucauauuaguauagauau gauaaauucugccuacaccgcccaugcccaugg cuuccaaugauuuc	111	24,32432	25,22523	18,91892	31,53153	43,24324	56,75676	1,25	1,285714	-50,8	-50,4	0,040436	8,57	-45,7658	-1,05833
sly-miR482e	uaggaaaagaaaagggaugaguuuucgagg agguguuggagugggugguugguaagauuuc auuuuuuuuuccaauaaaaauagagauuuc caauaccgcccauuccuauuggcuucugaucau ucucucuauuuuuuuuuc	149	23,48993	22,81879	16,10738	37,58389	39,59732	60,40268	1,647059	1,458333	-67,6	-64,9	0,011285	24,78	-45,3691	-1,14576
sly-miR5014a	gaauaugaccuuuaacuuuagauuguacaag uagacaguuaaacuuguauaaaaugagcaaa ugaacacauuugucauacauuacugcuaca ugauaaacuugucuccuacauagacauuucacg uguauuauugcauuuaggacacuugugcuac uuuuucauucuguacaauuuuaguguauac uuguguacauucaaguugaaggacauaguu	223	15,69507	31,83857	15,24664	37,21973	30,9417	69,0583	1,169014	1,029412	-79,1	-76,9	0,005739	10,21	-35,4709	-1,14638
sly-miR5174d	ucccuccguuucaaaaagauuggccuaguuu acuuuggaacggagcuuaagaaaaagaggga cuuuuuuauucuuuagguuucuuuuuuaaguu uguuuuuauuaccaaauuacccuuuauuuc uggucuuuaaacaugccacguggaaaguuuag uuuuaaguuuaccaaaaaaggaaagggucau ucuuuuugaacaaacuaaaagggaauagg ucauuuuuuugaacgggaguau	248	19,75806	34,67742	13,70968	31,85484	33,46774	66,53226	0,918605	1,441176	-64,5	-58,15	0,000128	45,76	-26,0081	-0,77711
sly-miR5282	caaaauuagcggaggaaaauagugacggaaaa aaugaaaauccuuaacaaaauccuugucgcaa aaauuuauagacggaaauagagagggaauuuac guuuuuccuucacuaauuuuccuucacuaaaau	128	17,1875	35,15625	16,40625	31,25	33,59375	66,40625	0,888889	1,047619	-50,9	-50,3	0,200969	3,29	-39,7656	-1,18372
sly-miR530	aucugcauuugcaccugcaccuagugaacga auuaguucgcuauuuuucgugcagaaaggug uaggguucaugcagaca	82	24,39024	26,82927	19,5122	29,26829	43,90244	56,09756	1,090909	1,25	-42,9	-42,9	0,530459	1,33	-52,3171	-1,19167
sly-miR5300	uugaccaaaauucuuucccaguccaggcau uccaacaguugauaacaucuaugaucugcgaau acuuuguaauuuuuguuuucuuuuuucacau gacauucuaaaauucuaugagcuucauca uaagcuagaaauaggugaguuuuugaugugug augccuaaaauaggauuuuagaaaguuacuag uaaaaggguucagauucggaggguuauuuu agcuggugguauuguuuauugggaaagauga	266	19,54887	30,07519	15,78947	34,58647	35,33835	64,66165	1,15	1,238095	-98,2	-95,8	0,003226	14,73	-36,9173	-1,04468

	cuuagguca															
sly-miR5303	uugcuaaguugcucgaacucuccaaaaauguc gcugcaccuguguggaucccaaaaauacac uauuuuuggaggauccgacucguacccgucga cauuuuugaagauucgagcaacauagauu	126	20,63492	26,98413	23,01587	29,36508	43,65079	56,34921	1,088235	0,896552	-63,6	-63,6	0,099102	5,84	-50,4762	-1,15636
sly-miR5303c	ucauaaguuuaaguugcgcggacucuaaau uagauccgcacucgugccuaucccaaaaau augcuacuuuuggagaaucgacacgcacccac ugacauuuuugaagaguccgagcaacauacu guaggu	136	20,58824	27,94118	24,26471	27,20588	44,85294	55,14706	0,973684	0,848485	-45,6	-43,9	0,005348	19,78	-33,5294	-0,74754
sly-miR5303f	gaauuauguugcucggacucuaaaaaauguc aaagggugugugcggauucgcaaaaagau guauuuuuggagaaucgacacggugcggca ucaaaagugaagaguccgcgcacuaagcu	126	27,77778	28,57143	17,46032	26,19048	45,2381	54,7619	0,916667	1,590909	-58,2	-56,4	0,085032	5,31	-46,1905	-1,02105
sly-miR5303g	auggaauagacuauugcucagacucuaaaa ucaugcagauccuuuaaguccgcaacuuu uagaggggaauagacacuaucuuagauuu uuugaagagucugagcaacguaacauucagg	128	19,53125	31,25	17,1875	32,03125	36,71875	63,28125	1,025	1,136364	-43,6	-40,7	0,039985	19,96	-34,0625	-0,92766
sly-miR5303h-1	aagcaguauugcugcagacucuccaaaaaug uugccacaccguauccuucggacaggc acuacuuuuggaggaucaacaaagcaccugac aacauuuuugaagagucugagcaacauaguga ag	131	21,37405	30,53435	23,66412	24,42748	45,03817	54,96183	0,8	0,903226	-58,3	-55,6	0,13419	4,35	-44,5038	-0,98814
sly-miR5303h-2	ggccuuuguugcucggacuaucacaaacauuu guccaccaguguuagaucccaaaaauug uauuuggaagauucgucacacaccuucacaa uuuuugaagagucugagcaacauagacu	124	18,54839	29,03226	23,3871	29,03226	41,93548	58,06452	1	0,793103	-39	-38,9	0,08486	8,42	-31,4516	-0,75
sly-miR5303j-1	acacagcagcauuuuuguguuuuuaaaaa auuaacaagucagaagaaaaucacaccgucag aagcgauuuagccuuuugauuaaaaaauaa uuauagcagcuauuugcuuuuuccuuaaaaaa guuaacagaggcaggcauuuugguccuaacau uugcucgcccagcaacauuuguuuuuuuu uuuuugacaaaaucgucguggaa	216	15,74074	33,7963	16,66667	33,7963	32,40741	67,59259	1	0,944444	-53,9	-47,1	0,00238	36,67	-24,9537	-0,77
sly-miR5303j-1	gaaaauuguuaaaucauguugcuugaauuc uguaaaauugauagauuagggcacgauc auauuuuugaagagucugagcaacauagguu aacucaugug	107	21,49533	32,71028	11,21495	34,57944	32,71028	67,28972	1,057143	1,916667	-33,5	-33,4	0,080134	4,62	-31,3084	-0,95714
sly-miR5303j-2	acguauuguugcucggacuacgcaaaugcucc gaacuagagcguuuggauuuuccaaaaauau gcugcuuuuuggaggauccaccacgcaccugaca auauuuuugaagagucugagcaacauaac	128	20,3125	30,46875	22,65625	26,5625	42,96875	57,03125	0,871795	0,896552	-47,3	-47,3	0,144975	9,02	-36,9531	-0,86
sly-miR5304	gucuauuuuagaucgagguugcagugcuc ucaaugcuacaucauuccccacaacuuucau cucacguucaaagaagauuauagagaug	142	21,83099	28,16901	19,01408	30,98592	40,84507	59,15493	1,1	1,148148	-66,3	-66,1	0,536117	1,27	-46,6901	-1,1431

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sly-miR5368	cuaaccuugugucaggaccuagggccaagg acagucucaggugacaguuuucuaugggcg aggccuccaaaaagguaac	83	28,91566	25,3012	24,09639	21,68675	53,01205	46,98795	0,857143	1,2	-31	-31	0,400362	2,09	-37,3494	-0,70455
sly-miR5532-1	uaauccaugaauaugauaucuauaguguga uguauugaaauaugacaaagguggaucuu gaucggucaugucauauaggccgaguuagg auccaaugcuucgaaauuugaauuauccgg augcaauggccugauauaucaaaaagugga caa	163	21,47239	32,51534	14,72393	31,28834	36,19632	63,80368	0,962264	1,458333	-45,9	-45,7	0,028719	10,51	-28,1595	-0,77797
sly-miR5532-2	cugcuaccgaaauucuaaaauccaggagaa uuguccuuugaaggagacucgaaccucaacg ucuuuagcacgagauuuuaagucucguguc uacaauuucacaaccaaggcaucuuagaaug aaucguauuccaagaauuuauaucuauuuag uauugauuaggaauuauagacaaggugga cuauugauccgucaugucauaaaggccuagu uggacauccaaugcuucgaaauuagaaauuc ggagaa	263	19,01141	29,65779	19,01141	32,31939	38,02281	61,97719	1,089744	1	-75,9	-63,5	0,000425	31,7	-28,8593	-0,759
sly-miR6024	aacuggaaaugggaguggagaaacacacu ugcuaaaggaguuaccagcucacucuuuuc uuuugaguuuuuagcaagaguuuuuac cucuucuaauuccgucucu	116	19,82759	25,86207	18,96552	35,34483	38,7931	61,2069	1,366667	1,045455	-42,7	-42,4	0,072273	7,12	-36,8103	-0,94889
sly-miR6027	guauuuuacaugauuuuggguagcacaagga uuauugugaacagaaaaagugauugcaaga agauggagauucaauuuuuuuuuuacgaag aaaacacuuuuguuuucucgugaauccuucg gcuauccaauaaucauguugaugug	153	21,56863	33,33333	11,76471	33,33333	33,33333	66,66667	1	1,833333	-57,4	-51,7	0,046025	16,06	-37,5163	-1,12549
sly-miR7122	auauauacagagaaaccgucugcgaauuaau gagaaauccguguuuucacauaccacagcg uuuuucuguauaacc	79	16,4557	30,37975	20,25316	32,91139	36,70886	63,29114	1,083333	0,8125	-31,7	-31,7	0,163599	3,57	-40,1266	-1,0931
sly-miR7696c-3p	cucauuuugaauuuuagaacuugaauagguc uaauuuugaugucauuuuggggauggauggu gcaugauuuuuugcuuccauugauuguagaa cuagaauugcaaaaucauuucaaauaagac cguuucugaguggaacagggaacauucuauc cuagaggucuaauuauucucuuugcuuaagg uuuguagaugaucuaaaaggguuuauauca cauuguagauucaaaagauugg	246	20,73171	27,64228	13,00813	38,61789	33,73984	66,26016	1,397059	1,59375	-59,7	-49,5	0,000145	46,66	-24,2683	-0,71928
sly-miR7805	uucaaaaauagcacacuuuaaagugugcua auauauaaaauuugugccaauuauuucuaa auuuggcaacacuuuaacguagccuauaa uuacaaaaaggacacuuuaaagugugcaaa aguuuucguggccauaaaccguucaaaagu	339	15,9292	31,85841	15,9292	36,28319	31,85841	68,14159	1,138889	1	-83,3	-72,5	5,93E-05	56,54	-24,5723	-0,7713

sly-miR7990a-3	uguuuuuccgcuagaacaugaaaaaaacu aggugaaaaaaaauugccuacauccgaca uucgaggcaagauuuuagaccguuuuauuuu acaaaauuacaacuucuuuuugguagaacu ucaaauugaucguaacuuuuugccucgaauaac guuggaggcgauuuuuuuuuuuuuuuuuuu uuuuuuuaagauacuacgugguuaacu	219	15,98174	31,05023	15,98174	36,9863	31,96347	68,03653	1,191176	1	-82,9	-81,6	0,011402	13,71	-37,8539	-1,18429
sly-miR7992	uccaaucuuuacuccaacuuuaggguacacac cagacacuucaaaucauguccacuaaucaau ugaacacucaacaguccaacuuacaaaaagaa cguguagacaccacaaaauuacgugucacg ucaacguugaguucccacaagauagugggac ugaguugagagucuaagugucacuccaaag uuggagaguuuauuc	208	16,82692	33,17308	24,03846	25,96154	40,86538	59,13462	0,782609	0,7	-72,3	-70,6	0,004029	15,21	-34,7596	-0,85059
sly-miR7993a	aacuuuuugcuguguuuuuacuuucgucuaau guuagugaaguuaacucaugaaauguaucau cuuuuuuacccguacacauuacuucaaguaa aaaauugcuugagguuuuuuagggcguaauagggc gcaagcguaauuuuuuagggagauagagauuu uuauuguuuuacuuuacucauagcuaagauaa augagugagcacaaccagaaaaaaa	218	18,34862	35,3211	12,84404	33,48624	31,19266	68,80734	0,948052	1,428571	-70,1	-69,2	0,013783	15,05	-32,156	-1,03088
sly-miR7997a	auggcaugcugcugcgacucuaaaaaauguu gcuaggucuguguuuggaucccaaaaguuagu gcauuuuuaggauguccgacagagugcggca acauuuuggagagucugagcaacauagcaga	128	27,34375	27,34375	18,75	26,5625	46,09375	53,90625	0,971429	1,458333	-66,6	-64	0,025577	10,04	-52,0313	-1,12881
sly-miR8001a	ugcuacaaagaaacuguaauuacauaggauu uuccuggggaauguaugaaaauuacaaaagaa acuuuuuuuccugcaaaauuucacacuaauuc ccaugaaaaucucuauguaauucacaguuugc uuauaguauag	139	14,38849	35,2518	15,82734	34,53237	30,21583	69,78417	0,979592	0,909091	-61,1	-60,3	0,072781	7,6	-43,9568	-1,45476
sly-miR8001b-1	cuucacuaacaagaaacuaugaaauuacauagg gauuaguauagaaaauuugcgaaaaguuuuuu uccuacaaacuuuuuauacuaauucccaggaaa auuccauguaauuuacacgguuuuucuuuguagu gcuu	132	14,39394	33,33333	15,90909	36,36364	30,30303	69,69697	1,090909	0,904762	-54,8	-54,8	0,332404	3,19	-41,5152	-1,37
sly-miR8001b-2	aaacacuaacaagaaaaggguaaaauuuuagg gauuaguauagaaaauuugcagggaauuacccug uaguucacacuuuuuugaguagaaa	90	21,11111	37,77778	12,22222	28,88889	33,33333	66,66667	0,764706	1,727273	-29,2	-27,04	0,033037	15,88	-32,4444	-0,97333
sly-miR8006-1	cauauauauacucuauguuuuuggauuacagag acaccaaugucccaaaaauagacagagaguu uuuaccuaucauuuaccaaauagacaauuuuu uugguaaaaacaauuacucuaacaaaauaguu uuuuuuaaggaaggaaggaacaaauuauucuaag cuaucguaaaugguagcagauaccucccgcca uauuuuuggaacuuagucccugccguccaa	243	13,99177	37,03704	18,93004	30,04115	32,92181	67,07819	0,811111	0,73913	-68,7	-59,51	0,001284	35,97	-28,2716	-0,85875

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sly-miR8006-2	acguguauuguauuguuaaaggguauaua uacuauguuuuugaacgacaggggcaccaac gucccaagguaugaugggguuuuuugcaua ccauuuacgauaguuuuggguauauuuauacu uuucccuagauacaaguucguuuuuauagu uuuacauucgacauaaucauaa	184	19,56522	29,8913	14,13043	36,41304	33,69565	66,30435	1,218182	1,384615	-45,2	-40,9	0,01532	20,42	-24,5652	-0,72903	
sly-miR8007a	auguaauuuauacuaaguuuauggucacugca caaguaucaaccaguguaaugguacuccuc gugccauuuuauugggcacuuuucggauuucg aguaaaacauuuugaaauuuauuuauugugac caauacuuuuuauaaauagu	149	15,43624	28,18792	15,43624	40,9396	30,87248	69,12752	1,452381	1	-36,1	-27,8	0,012973	23,82	-24,2282	-0,78478	
sly-miR8007b	caauacucccuccgucccauuucaugugacacu uuuuggauuuucgagauucaaaagucuaauu uugaccggaaaauuuuucauagaucuuuuaac auuuugaaauuacaaauuguugacuuuauagu acuuuuuauguaguuuacaaaauauaaaauu cacuuuaagaaguuugaagauuucaugcgcaaa uucccgguuuaacuuuaaacuguuuaacucucg aaaaaacgaaaagugccaaacauaaaauggguc agagggaguaaua	270	14,81481	34,07407	16,2963	34,81481	31,11111	68,88889	1,021739	0,909091	-83,2	-74,5	7,37E-05	31,02	-30,8148	-0,99048	
sly-miR8008a-1	auuuccagaaaaagcgacggagcaggguccuuu aucugucgcuaucugggauuu	54	24,07407	24,07407	20,37037	31,48148	44,44444	55,55556	1,307692	1,181818	-23,7	-23,4	0,163152	4,28	-43,8889	-0,9875	
sly-miR8008a-2	uuuuuccaucacuuuuuacauuacuuuuu acuaaaacucagaaaagcgacgacauaaac uuuuguccgucucuuuuccggcucuuuuuuuu auucuuuuuccagaaaagugacggacagugucc uuuaguccgucgauuuucugagcuuuuacaaa uauaaaauuacagaaaagcgacggagug	188	14,3617	30,31915	20,74468	34,57447	35,10638	64,89362	1,140351	0,692308	-49,3	-51,44	0,00226	17,7	-26,2234	-0,74697	
sly-miR8008b-1	uugauuuauuuuugcagguauuugcagaaaaa augaggagcagagugguuuuugcugcugcuuu uuugcuuuuuuuuauuacaaaauaacccagaaa agcgacggacaagguuucuuuugguccgucacu cucuagguauuuuuuuuuuuuuuuuacagga aagcgacagacauuguccuuuagucguccucg cuuuucuggauuuuacaaaauuuuuuuuu	223	18,38565	29,59641	16,1435	35,87444	34,52915	65,47085	1,212121	1,138889	-72,7	-71,5	0,000473	21,5	-32,6009	-0,94416	
sly-miR8008b-2	uaaaaaaugcaaaaaaaucgacgagcagg ugguuuuuuuccaucacuuuuuugcauuuu uucaaaaauaacccagaaaagcgacagacagg uccuuuagugcugcgcguuuucuggguuuu caaaaaaaauuuacagaaaagauagggu ccuuuaguccgucacuuuuuacgauuuucaa	192	18,22917	33,33333	17,70833	30,72917	35,9375	64,0625	0,921875	1,029412	-51,6	-52	0,000727	36,36	-26,875	-0,74783	
sly-miR8008b-3	ugcaauccagaaaagcgacugacaaaagaa cacuauccaucgcuuuuucuggaaauuuuuu ucaaaaaagucaaaaaaaagugaaggacuaa	193	14,50777	38,8601	19,17098	27,46114	33,67876	66,32124	0,706667	0,756757	-57,2	-52,8	0,014367	21,97	-29,6373	-0,88	

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sly-miR8011a-1	gacacuaagucagucacuuuuugccuc acaaaaauuaagcccauuugagucuuuuu augugagacaaaaagagccuacacacuaag uauu	100	15	36	21	28	36	64	0,777778	0,714286	-29,1	-29	0,285749	3,88	-29,1	-0,80833
sly-miR8011a-2	acaugaacuuuuuugugucacacacug auguaaguuugugagggucuuuuuuguuua caagucagugcgacccaaucguuggacucac aacucgugaaaaaagagucucacgcaac uugcguaauucugugagucgcaaguaauu uucaaa	168	19,04762	29,16667	19,04762	32,7381	38,09524	61,90476	1,122449	1	-70,2	-69,8	0,030845	9,95	-41,7857	-1,09687
sly-miR8019-1	uuuuacguuuuaaagucuccuccguuuca aaaagaugaccuguuugacuuugacacgaag uuuagaguguaaagaagacuuuuguaucuu ugguccuuuuuaaauuagguuaaauuagaca aaauuuuccuuugaucuuugggccuuuaacau gccauguggaaaaacuguuuuugaagguuacc aaaaaaagaaagaggccauuuuuugaaaaa gacuaaaaaggaaaggagguuuuuuuuuuga auggaggaguuauauauauguauuc	283	19,43463	34,27562	13,0742	33,21555	32,50883	67,49117	0,969072	1,486486	-88,9	-86,7	0,001369	42,13	-31,4134	-0,9663
sly-miR8019-2	acuaauacucccauuuuuuuuuuuuuuuu cugguuuugacuuuggcacgaaguuuaagaaa aaagaagacuuuggaucuuugguacuaauu aaaguuuugugaauuacacaaaaacugccuuu aaucuuugggccuuuuuuuuuuuuuuuuuu guugaaaauuuuuuuuuuuuuuuuuuuuuuu aggucuuuuuuuuuuuuuuuuuuuuuuuuuu aagaagucuccuuuuuuuuuuuuuuuuuuuu uuuuuu	262	16,79389	41,60305	14,12214	27,48092	30,91603	69,08397	0,66055	1,189189	-58	-50,74	0,000361	47,22	-22,1374	-0,71605
sly-miR8020	cucagacccacuuaguggaauuuuucuuu auguuguuuuuuuuuuuuuuuuuuuuuuuu caaguacacaaaguuacacacacacacuuu cugaaaugccacaaaaaggggucuuagg	123	18,69919	34,95935	18,69919	27,64228	37,39837	62,60163	0,790698	1	-53,9	-53,9	0,093084	7,72	-43,8211	-1,17174
sly-miR8021-1	auucaaggcucacacucgagaccucuguuua gauggaugugucuuuacacuccuuuuuuuu uuuuuuuuuuuuuuuuuuuuuuuuuuuuuu ucucugcuaauuuuuuuuuuuuuuuuuuuuu aguuaauugagucacgaacauuuuuuuuuuu gagaagaagcuuuuuuuuuuuuuuuuuuuuu agaagugucaaguuuugagucuuuugacga	219	15,52511	31,96347	17,3516	35,15982	32,87671	67,12329	1,1	0,894737	-76,4	-71,7	0,005823	25,94	-34,8858	-1,06111
sly-miR8021-2	cauaaucaaggucacacacucgagaccucugau uaaggauaauuuuuuuuuuuuuuuuuuuuuuu	233	14,59227	33,47639	16,7382	35,19313	31,33047	68,66953	1,051282	0,871795	-65,1	-57,1	0,000512	28,41	-27,9399	-0,89178

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sly-miR8021-3	ucuucauuucaaaggucaaacucgagaccu gguaaggauagaggaucauuuacaaccac cacaacuuuuuagguacuauuauagacu uuacuuucucuuauuuuagacauuugug gauuuuuuuguguuuacacacaaauuu uugauugagugaaaguuuauuuuuuucc uuagucagaagugucagguucgaucuuagac augagu	232	15,94828	30,60345	15,51724	37,93103	31,46552	68,53448	1,239437	1,027778	-55,7	-55	0,001188	29,39	-24,0086	-0,76301
sly-miR8025	uccaaacaucauaaagaauuuuuuaccacaca cuacacaugcauuuuuuuaguuuagucgcc auuauuuuuuuuacacacagcugaucuuau aauggugacuuuuuacuuuuuauuugcagcc gacugugug	137	12,40876	35,76642	18,24818	33,57664	30,65693	69,34307	0,938776	0,68	-56,7	-56,7	0,538141	3,17	-41,3869	-1,35
sly-miR8032d	gaucuuuuuugcaucuaaaguucaagaaga caucggaauccaaauucugacgauuccaucagu uccggaagggucauuuuaggcuagaucaugg ucgacaccccgaaaguuuucagugugagugug ugcgauuaggcguuuuuacuuuaguuuaggg cuaguuuugacuuuaguuuacauuucugaguaa augcgucggaugagaaguuucggaugucga guuugguuaguuuuuacccuucuuucguguu augagguuuuugauuuuuuuccgagccuuuu guaguuuuuugacuuuuuauugcc	311	22,82958	24,11576	16,39871	36,65595	39,2283	60,7717	1,52	1,392157	-85,6	-59,4	0,000242	71,72	-27,5241	-0,70164
sly-miR8033	gcuuuagcuggagucacagcuuccaaagcugc agaaugaguuuuuuuuuuuacugaaaaaga aaaacuuuuucugcagcuuuggaauuuuuac uccagcuaguu	108	17,59259	31,48148	15,74074	35,18519	33,33333	66,66667	1,117647	1,117647	-60,6	-60,6	0,145417	5,18	-56,1111	-1,68333
sly-miR8038a	uaauuuucaagucuaaaacaguuuucuccuug aguuuaguuuucucugugcuguuuuaaccgca agagacguagaagcuguccaacaugagauuc agcuuacucacuuuggaaaaauuuuugcuu gagaagca	136	19,85294	29,41176	19,11765	31,61765	38,97059	61,02941	1,075	1,038462	-64	-61,8	0,115401	6,01	-47,0588	-1,20755
sly-miR8039-1	uuauuagucuaaaacacauuugaacuguuacu uuuucgguaguuucacacuuuuaacuccgguu auuccuuuuuucuaucugaacuaugaccaucg uucagguagggaaaggaaacacugauaguuu aaugugaaacugacgagagaacauaguuca uuugaguuuuugagcuauugcu	181	17,67956	31,49171	16,57459	34,25414	34,25414	65,74586	1,087719	1,066667	-81,6	-81,6	0,014355	8,82	-45,0829	-1,31613
sly-miR8039-2	ucaaaaaagacaccugaacuaacuuuuuucac	159	17,61006	32,07547	22,01258	28,30189	39,62264	60,37736	0,882353	0,8	-72,9	-68,8	0,010535	12,47	-45,8491	-1,15714

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sly-miR8045-1	uaacauaccucaacuaacaauuuuccuuuc cuaccuaaacgauagugauuuucagguauga aaagggaauugauagugagguguguuu	95	16,84211	32,63158	15,78947	34,73684	32,63158	67,36842	1,064516	1,066667	-46,9	-46,9	0,052742	7,75	-49,3684	-1,5129
sly-miR8045-2	acacaccuaggauauaccuuuuuugaguuu cauuuaggaauaucaucaucguucagguagg aaaaguaaaacauugauagugagguguguuu ugaugaauaacggugauaguuuagguaggaaa uucgcacacauagauuuuagguuugaacuc gaaaaucggaguacuuuaggugugu	186	23,11828	32,7957	11,82796	32,25806	34,94624	65,05376	0,983607	1,954545	-48,5	-40,6	0,000396	39,21	-26,0753	-0,74615
sly-miR8051	gaauugaauccucaccaagaagguggaguu gguaggauaccaacuaagcaauugaaauucc cuuguauuuacacugaaaacucuguaacua aauaaacaaaugcuagauuauugauaguu guagaaagauuacucucugugucuuuuu augaccagauaaaaaguuuugguagaaca aaaaauaucaguucuuacaauccuacaauaa cuauucaagacacuuuugguaaaucaaaa u	257	16,34241	38,5214	15,1751	29,96109	31,51751	68,48249	0,777778	1,076923	-56,8	-41	0,000408	68,07	-22,1012	-0,70123
sly-miR8172	cuccaucagauaggaucaucaugaggaua aaaaaugauuuuuuuuagacaaauauau aucauuuggauguuccaucugaaugacu	92	17,3913	32,6087	14,13043	35,86957	31,52174	68,47826	1,1	1,230769	-29,3	-28,8	0,098043	27,99	-31,8478	-1,01034
sly-miR8175	naagucaaguuauucuaaaucuaugauccc cggcaacggcgccaaaauuuagauacacuaac uuacuucuaaaauaagaaguaaagcggucgug ucaaguuuuuacccaacuaugugaggugggga ucguucccacgaggaaaauagucuagacuua cuucaacgug	171	18,71345	35,08772	21,05263	24,5614	39,76608	59,64912	0,7	0,888889	-48,7	-48,7	0,087229	8,77	-28,4795	-0,71618
sly-miR827	uuugaauuuuuuugugauaggucacuauc aucauaucuuuuggcacauuuuuggaaccau uauuugccauuuuagauagaacauacaaca caucuucacac	108	13,88889	30,55556	16,66667	38,88889	30,55556	69,44444	1,272727	0,833333	-40,6	-40,6	0,076968	6,42	-37,5926	-1,2303
sly-miR828a	auuuacauucacuuuuuugggaaagccuug cucaaaugagauuuccaacaauugcuauuug acauacuuuugagauacacauuugguuagaa guuuuaccaggaagguuugacu	119	17,64706	29,41176	16,80672	36,13445	34,45378	65,54622	1,228571	1,05	-48,1	-48,1	0,090023	5,43	-40,4202	-1,17317
sly-miR845b	gaaguagucgguuuuaguuuuuagaguuuu uguagugugaguuuuuugauuuuuuaguu aucauuuuuacucucaguuuaguuuuuuuac gagguuuuuuuuuuugauuaggaagguuu uuuuuuuacaguuuuuuguuuucugacuuaa accaacuuaacaagaacuuuguuuuguuuag	285	19,29825	30,87719	14,73684	35,08772	34,03509	65,96491	1,136364	1,309524	-72,9	-69,2	0,000971	46,05	-25,5789	-0,75155

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sly-miR9471a	gaucuuagacggauuuggguucugagauuca guugauuuucucaggugcucacucagcuauag uuuuuuuuuagaacucaauuuuuggcag caaggagaaugguagcuuucaggauuauacu auuggcugagugagcaucacggaauucgacgu gauucugagaggaaaugau	180	25,55556	30,55556	13,88889	30	39,44444	60,55556	0,981818	1,84	-74,1	-74,1	0,099251	11,72	-41,1667	-1,04366
sly-miR9471b	uugagauucaguugauuuucugaggugcucacu cagcuauuaguuuuuuuagaacucaauua auuuuggcagcaggaauuggugacuuucag gaugauaacuuuggcugagugagcaucacug aaucgacaugaauucugag	147	23,80952	30,61224	14,28571	31,29252	38,09524	61,90476	1,022222	1,666667	-64,9	-64,8	0,098094	7,91	-44,1497	-1,15893
sly-miR9472	ccauagauucacucgauuuuuuuucaguaga cguugugaaauuugauaaaacagguauaca gaggucuuuuuauagucagaaccuagaaaau guguuacugauuucagaccuuugucacuuu auucuguuugcuuuucacaaucucugcugaaaa augauugacuagauacuaga	180	16,66667	32,77778	16,11111	34,44444	32,77778	67,22222	1,050847	1,034483	-73,2	-73,2	0,021458	8,16	-40,6667	-1,24068
sly-miR9473-1	cuagcagauauuggcuguuaaaucaaacucgu ucucuccacuagucacauauauagacuuu acuagaagaagagacuuuuggguaaaacgag uucagauuuacagccaauuuguu	120	17,5	34,16667	17,5	30,83333	35	65	0,902439	1	-53,2	-53,2	0,041358	8,37	-44,3333	-1,26667
sly-miR9473-2	aaaacaauuuggcuguuaaauucgaacucguu uuaccccauagucucuuucuuaguuuuu cauuuauaugagucaguggagugaacgagu uuagauuuacagccaauaucug	118	16,94915	32,20339	16,94915	33,89831	33,89831	66,10169	1,052632	1	-56,2	-55,3	0,152958	7,56	-47,6271	-1,405
sly-miR9476-1	aaacugcuauuggucuguccugcaucuuuuu uuacauuuuuuccguuaucaaaaaauauaaa aaagauagcaggacuagaccaauagcaggau	94	14,89362	35,10638	17,02128	32,97872	31,91489	68,08511	0,939394	0,875	-58,1	-58,1	0,76197	0,61	-61,8085	-1,93667
sly-miR9476-2	auccugcuauuggucuguccugcaucuuuuu uuauuuuuuuugauaacgggaaaaauuuuuu aaagauagcaggacuagaccaauagcaguuu	94	17,02128	32,97872	14,89362	35,10638	31,91489	68,08511	1,064516	1,142857	-63,2	-63,2	0,878756	0,55	-67,234	-2,10667
sly-miR9478-5p	ugcuuuuuuaggguuuaaggcuuuuuuaugua gaucgaacuuugagaaaagacucaucuauguc aucugguuuuuuugguuguuuuuuguuuua ugagccuuuuucucgaaacgaaaauugguuagau gaguuuuuuuuuacggauuacauuuuugag ccuuuuucacauuugcagacauuuuugagc cuuuuuuccauuuuuuuuuu	211	20,37915	31,27962	12,32227	36,01896	32,70142	67,29858	1,151515	1,653846	-76,1	-68,73	0,011277	27,36	-36,0664	-1,1029

Tabela S10 – Caracterização estrutural e termodinâmica dos precursores de miRNAs em *S. pennellii*. Tamanho (Tam), conteúdo de G, conteúdo de A, conteúdo de C, conteúdo de U, conteúdo de GC, conteúdo de AU, razão de AU (R-AU), razão de GC (R-GC), Energia Mínima Livre (MFE), Energia Mínima Livre do Conjunto (MFEE), Frequência da estrutura do MFE no Conjunto (Freq), Diversidade do Conjunto (Div), Energia Mínima Livre Ajustada (AMFE), Índice de Energia Mínima Livre (MFEI).

Pre-miRNA	Sequence	Tam	G	A	C	U	GC	AU	R-AU	R-GC	MFE	MFEE	Freq	Div	AMFE	MFEI
spe-miR1128	agcaugucuuuaguuuuuuucacacaacau gacugcuauuugauuaacuccuagaaaaagaag auuucacaaggauuucugcauaaaauuacua ucccuccgucccaaaauaagugucacuuuagca auaauacacacucauuuagaaaaauauaaaua gaaagguaucaccccuauuuuuuagauuuu cuugacaauugagcaugauuagauaaguauuu guucuuuaguacaaagguaauacuuggaaaaac auacuaauuuccgucuuuaguuuccuaugguga cacuuuuuuugg	301	14,28571	34,55150	17,27575	33,88704	31,56146	68,43854	0,98077	0,82692	-74	-68,6	0,00149	28,91	-24,58472	-0,77895
spe-miR1446	auuuuuuaggaauccagaguuuucugaacuc ucucccucauaggcuguucauaauauauugc ugcuacuuugcagcuuaauuaauaacagcuu ugggguuuuugaguccagaaaacucuuugcuuc cuaguuuagca	139	16,54676	28,05755	19,42446	35,97122	35,97122	64,02878	1,28205	0,85185	-53,3	-50,5	0,03526	12,23	-38,34532	-1,06600
spe-miR1446a	caguguuuucugaacucucucccucauaggcu cuucauuauuuuuuuuuuuuuuuuuuuuagagca gccaugagagauugaguucagaaaaacucugg	96	16,66667	33,33333	18,75000	31,25000	35,41667	64,58333	0,93750	0,88889	-40,4	-38	0,17718	5,50	-42,08333	-1,18824
spe-miR156-1	aaaauggaugggugauuuuugacagaaga uagagagcacauaugauggaauugcugcugcua aaucuggagagucuuuacaaauaaaaaaagcau uucacuucauuuugucucucuaugcuuuccguca ucccuuucacuccuuuuucc	149	18,79195	29,53020	19,46309	32,21477	38,25503	61,74497	1,09091	0,96552	-52,9	-51,47	0,03732	12,70	-35,50336	-0,92807
spe-miR156-10	aaggggucgugacagaagagagugagcacaca uggcguuuucuggcaugauuuuuauuugguug cuugaaacuaugugugucucacugcucuaucug ucaccucccacc	108	26,85185	22,22222	22,22222	28,70370	49,07407	50,92593	1,29167	1,20833	-60,2	-60,2	0,09793	7,82	-55,74074	-1,13585
spe-miR156-11	ucuaauuuagugugaaguauagacaaaaagaa ggugacagaagggcugagcacauguguguuu ucuagcaugauguucuaugcuugaucuaug ugugcucacugcucuaucuuuucacuccauggc	157	19,74522	24,84076	18,47134	36,94268	38,21656	61,78344	1,48718	1,06897	-47,4	-47,3	0,02245	16,37	-30,19108	-0,79000

spe-miR160-1	auaugccuggcucccuguaugccauuugcaaa gcucaccguauauaucgaugggccuugua auggcguaugaggagccaagcaua	88	25,00000	25,00000	22,72727	27,27273	47,72727	52,27273	1,09091	1,10000	-45,8	-45,8	0,13353	3,03	-52,04545	-1,09048
spe-miR160-2	gugaucgauaacacaauccugcuccuug uauGCCUUUGCAUUGUCCACCAAGAAUUGA UGGCCUUUCAGAUUGCAUUCAGGAGCUAAG CAUGUAUAGAGUUUCAUGUC	116	21,55172	25,00000	21,55172	31,89655	43,10345	56,89655	1,27586	1,00000	-41	-40,8	0,21669	7,36	-35,34483	-0,82000
spe-miR160a	uaagaaggauugcuccugcucccuguaugcca cacgcauucaccauuuuuuuugauugacugauc aguggguggcguaauaaggagccaagcauacca cccguuu	103	24,27184	24,27184	24,27184	27,18447	48,54369	51,45631	1,12000	1,00000	-45,4	-45,4	0,54332	2,55	-44,07767	-0,90800
spe-miR160c	cugcuccugcucccuggaugccaacuaagaacag uauugucaaaaaaauugacacucuuuccuagu gguaccagaggagacaggcaga	87	22,98851	31,03448	24,13793	21,83908	47,12644	52,87356	0,70370	0,95238	-47,3	-47,3	0,30868	2,21	-54,36782	-1,15366
spe-miR160g-1	ggaauaugcuuggcuccucauacgccaaucaac aaggcccaucgauauauuacggugagcuuugc aaauGGCAUACAGGGAGCCAGGCAUUAACG	95	24,21053	28,42105	24,21053	23,15789	48,42105	51,57895	0,81481	1,00000	-47,8	-47,8	0,35883	2,11	-50,31579	-1,03913
spe-miR160g-2	ggugguauGCUUGGCUCUUAUACGCCACCCAC UGAUCAGUCAUAUAAAAUUGGUGAUGCGU GUGGCAUACAGGGAGCCAGGCACAUCCUUC	95	25,26316	25,26316	25,26316	24,21053	50,52632	49,47368	0,95833	1,00000	-39,5	-32,9	0,01176	15,55	-41,57895	-0,82292
spe-miR162a-1	guugggugagaacacuggaggcagcgguuau cgauGCUUCCUGAAAAAGCGAUAAUACAGC AACAGGAAGCGAUCGAUAAACCUUGCAUCCA GUGCUAACCCGCC	110	25,45455	29,09091	25,45455	20,00000	50,90909	49,09091	0,68750	1,00000	-49,1	-49,1	0,04505	7,98	-44,63636	-0,87679
spe-miR162a-2	uaguugguugaagacacuggaggcagcgguuc aucgaucguuuccuggaagcugaauauauau auauaugcaaaaauacagcaaaaggaaucggu cgauaaaccucugcauccagugcuuaacccuu a	130	21,53846	31,53846	20,76923	26,15385	42,30769	57,69231	0,82927	1,03704	-48,1	-48,1	0,00997	13,93	-37,00000	-0,87455
spe-miR164	auuuuuuagcuggagaagcagggcacauGCU GAUUUACUUUGAAUUUGAUCUUUCAAGAAUU UUGCAUGUGCUCUAAGCUCUCCAGCUUAUUUCU C	98	18,36735	26,53061	20,40816	34,69388	38,77551	61,22449	1,30769	0,90000	-51,1	-48,1	0,24991	2,23	-52,14286	-1,34474
spe-miR164a	agauggagaagcagggcagcugcauuacuaac ucauacgcaaguuuaucauguuucgaaaa	165	20,00000	29,09091	16,36364	34,54545	36,36364	63,63636	1,18750	1,22222	-59,3	-54,6	0,00230	22,51	-35,93939	-0,98833

	ucugcuaucauaguacuguaauuacagcaaa aguguuuguacuuacauaguaguaaagug augaguuaguauuaucauguccguuuuccc aucau															
spe-miR164b	uguuggagaagcagggcagugcaaaauuuu uauucgacgauauaugcauuacuaaugguaa gcaucauuuugcaguguuucuuucca	97	20,61856	25,77320	19,58763	34,02062	40,20619	59,79381	1,32000	1,05263	-46,2	-45,3	0,04651	8,87	-47,62887	-1,18462
spe-miR166-1	uuuguugaggagaugucugugguucgagau cuuucuaaagaagguaaaugaugacaaguu uucauauauguaucuuugaugauuucgacca ggcuucauucccuccaacucu	117	20,51282	27,35043	17,09402	35,04274	37,60684	62,39316	1,28125	1,20000	-52,9	-51,7	0,33112	6,15	-45,21368	-1,20227
spe-miR166-2	uuuuuuugagggaauuguuuugcucgag gccaccaacuucacuaauggagcgaacucuu uguuagugucgucggaccaggcuucauucccu caaaucuc	107	22,42991	21,49533	23,36449	32,71028	45,79439	54,20561	1,52174	0,96000	-44,4	-41	0,04316	13,05	-41,49533	-0,90612
spe-miR166a-1	ccaaaaaagaaaaacauuuugaggggaau guuguuugguucgaaaucauacaaauua aaauccaugcaucucgaugcgaugaauga auuuuucggaccaggcuucauucccccaacu caaguuuuuguuuuau	146	17,12329	33,56164	17,80822	31,50685	34,93151	65,06849	0,93878	0,96154	-50,3	-46,21	0,02766	17,23	-34,45205	-0,98627
spe-miR166a-2	aaacaagaucauguuaaggagaauugucug guucgugaccacauauucuuuucuaauaaa gaucucggaccaggcuucauuccccuca	93	17,20430	29,03226	21,50538	32,25806	38,70968	61,29032	1,11111	0,80000	-30,9	-30,7	0,13229	6,62	-33,22581	-0,85833
spe-miR166a-3	agcuuccagauuuugagggaauugucuggc ucgaagucuuuucucucgaucuuuuag aucgaaccaauccauuuuuauauucauuc aguuuuuuuuauaugauuacgaugaug agauagugucuuucggaccaggcuucauucccc cauuuggaaca	174	18,39080	28,73563	18,96552	33,90805	37,35632	62,64368	1,18000	0,96970	-69,5	-69,2	0,01724	12,73	-39,94253	-1,06923
spe-miR166c	ugugugugugcguuugagggggauguguc ggcucgacacaaauacucucuuuguauuu aguuaauucguuaucaagauugauguugaac gaauuuuuuuacacauauuacaagauuaa aaaggaguuuagggcucggaccaggcuucau uccucucuuuuuuuuuucucuc	187	21,39037	29,41176	15,50802	33,68984	36,89840	63,10160	1,14545	1,37931	-76,5	-72,4	0,01243	17,61	-40,90909	-1,10870

spe-miR167-1	agcagcugaagcugccagcaugaucuaaacuu uucuauugcuccguacgaggaaagaucagauc auguggcagcauccuguuug	85	23,52941	27,05882	23,52941	25,88235	47,05882	52,94118	0,95652	1,00000	-39,7	-39,7	0,33457	2,34	-46,70588	-0,99250
spe-miR167-2	aucaguugaagcugccagcaugaucuaaacuu accuauaaauuuauuuuaggaagcaugagau caugugguugcuuccacugua	86	17,44186	31,39535	18,60465	32,55814	36,04651	63,95349	1,03704	0,93750	-31,2	-31,2	0,07012	5,73	-36,27907	-1,00645
spe-miR167-3	gugaagcugccagcaugaucuaaacuuggccu uuuguaaaagaaaugggugacuaagguuaggu caugcucggagaccucacu	84	26,19048	28,57143	20,23810	25,00000	46,42857	53,57143	0,87500	1,29412	-41,3	-41,3	0,37350	6,31	-49,16667	-1,05897
spe-miR167a	uagcaguugaagcugccagcaugaucuaaacu uuccuuuuaguucaaaauauauagggaaaag aucagaucauguggcagccucaccuguca	93	19,35484	31,18280	20,43011	29,03226	39,78495	60,21505	0,93103	0,94737	-41,6	-41,6	0,21117	3,68	-44,73118	-1,12432
spe-miR167h	aaauuuuuuuuucucgacgaaguagguuuua gauuuuuuuucguagucgaacuaacagguga agcaaccacauagcugaucuugccuuauau aaauuuauagguuaguuuagaucaugcuggca gcuucaacugauagucuaacgcuaucaua ugacaaaaccuuauuuuugaagaagaaga agaa	196	18,36735	34,18367	15,81633	31,63265	34,18367	65,81633	0,92537	1,16129	-71,1	-67,3	0,00191	18,71	-36,27551	-1,06119
spe-miR168a	uuuuuugcggccgccuuauucguugugc aggucgggaccucauucgccggcgccgggaaua auggcggacgaacgacggcgguuuuuauucua cuaagcugucaccgacgaauauauguuuauu agcggcgaaaauuggguccugccuugcauca cugaauuggagacagcuguaaaucg	186	27,95699	20,96774	23,11828	27,95699	51,07527	48,92473	1,33333	1,20930	-75,1	-73,4	0,02437	20,06	-40,37634	-0,79053
spe-miR168b	gcgguguuuucuuuugcugcugcaggucg ggaccuaccucgccggcaacaugcgugggcu gacggcgacggcagcguaccgguaaaaaa ucuuuuuuuacauuguuugcguaguuuggg ucccgccuugcaucaacugaauaggagacugcg gugaauuu	170	30,00000	20,58824	22,35294	27,05882	52,35294	47,64706	1,31429	1,34211	-77,2	-71,9	0,01712	15,15	-45,41176	-0,86742
spe-miR169-1	uuuggucuaaaggguuugcaugaagaaga gagugaaguugcagcaaggaugacuugccgg accaaaaguugaccuuuuuaguuuccggc aaguuuuuuuggcuauaaguuugcucucuuc uucucauguuauccucguuagaccuuu	155	23,22581	22,58065	18,06452	36,12903	41,29032	58,70968	1,60000	1,28571	-74,7	-73,9	0,01499	9,78	-48,19355	-1,16719

spe-miR169-2	auuaauugaagagggguuuuacaugaaguuga gaguauuguuuaguagccaaggaugacuugcc uacuucauuugauauuaguuuuuuuuuuuuu uauugacaaauuuugcauuuugcugagggca aguuauccuggcuaucuuugacaugcuguaau uuuucauguaaaaccuuauucuuuauugcu	190	18,42105	28,94737	13,15789	39,47368	31,57895	68,42105	1,36364	1,40000	-82	-79,3	0,00271	15,74	-43,15789	-1,36667
spe-miR169-3	augagaagaggagucuuugcaugaugaaaagag ucuuauuuugguagccaagaaugacuugccugc accuuuuuccgaaauguguccuuucguucaugg ggucaggcaggucacuuuagcuuacuuugaca agcucuuucuuuucaugcaagacuuucuuuc ucc	164	21,34146	23,78049	21,95122	32,92683	43,29268	56,70732	1,38462	0,97222	-74,3	-74,3	0,00246	12,25	-45,30488	-1,04648
spe-miR169-4	ggguacaaaaaagaagagaagucugcaugau gagaagagucuuauuuugguagccaaggaugac uugccugcaccuacuuuugaaaaggucuuuacau auguccuuucguuuauuuugggucagcagguc ucuuuagcuuacuuugacaagcucuuuuuuuc augcaaggcuuucucuuuucguuuuuuuuu	192	20,83333	26,04167	18,22917	34,89583	39,06250	60,93750	1,34000	1,14286	-77,4	-75,1	0,00095	15,36	-40,31250	-1,03200
spe-miR169-5	gcguaaaaacaggaucaugaauggccuugc auguugguucaggaagaagaguugcagccaa ggauagacuugccgacuuuuuuuuuuuuuuuu uauauauauauauauauauauauuugaaaau acauuuuacuuuggaagagaaguuugcaagug guccuuggcuaacuuuuuuuuuugcccccua gccaggcuuuccuguaacauuauuuuuuuuu	224	19,64286	29,01786	17,41071	33,92857	37,05357	62,94643	1,16923	1,12821	-89,3	-86,84	0,00254	26,07	-39,86607	-1,07590
spe-miR169a-1	agucuaugagguuuugcaugaagauguagagag ugaaguugcagccaaggaugacuugccggacc auaaaauugcuaggauuuuugcaguuucggcaag uuguuucuggcuaauaguuuugcucuuuuuuu caugucauccucguuagac	147	25,17007	22,44898	18,36735	34,01361	43,53741	56,46259	1,51515	1,37037	-68,9	-67,9	0,01564	9,65	-46,87075	-1,07656
spe-miR169a-2	cuuuauucauguuuaagucuuugcaugaggga uaagguuauugaauugcagccaaggaugacu gccggcaagcucgacuaauuucugcuuucaguc ggcaagucuuuuuuggcuaacuaucugccuca uuuucuaugccagauuuuuuugaauuagcu	161	19,87578	24,84472	19,25466	36,02484	39,13043	60,86957	1,45000	1,03226	-69,6	-69,6	0,03588	9,63	-43,22981	-1,10476
spe-miR169c	agagguaggaguggagugcagccaaggauga cuugccgagaguuuugagccuaaagcauga cauauccggcaggucuuuuggcuaacuuuuu	98	29,59184	25,51020	16,32653	28,57143	45,91837	54,08163	1,12000	1,81250	-51	-51	0,17474	3,02	-52,04082	-1,13333

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spe-miR169e	uaggaggagaggccuuacauaauagaagag uuucuaauuuuguuaguccaaggagacuu ccuuucaucaauaggaaaaaugauuacaacacu uucaugguauugggaaaagaguggcaagcau cuuugcgacugacaaaacucuucuuugucau guuaguccaucuucuuccu	179	21,22905	27,37430	17,31844	34,07821	38,54749	61,45251	1,24490	1,22581	-71,8	-68,1	0,00796	17,71	-40,11173	-1,04058
spe-miR171	ugaucaacuugggaguugguguggucaaau agauaacaauccacggaagauugagaguc uguuauuugauugagccgugccaauaucacu guaaagaaaaaac	110	21,81818	31,81818	14,54545	31,81818	36,36364	63,63636	1,00000	1,50000	-44,2	-44,2	0,22601	2,80	-40,18182	-1,10500
spe-miR171-1	agauauuggugcgguucaauuagaaagcgac uucuuuauaauguacucguuauuuauug agccgugccaauaucac	81	18,51852	30,86420	17,28395	33,33333	35,80247	64,19753	1,08000	1,07143	-39,5	-39,5	0,72921	0,63	-48,76543	-1,36207
spe-miR171-2	uauuggugcgguucaauagagaaagcaguacuu aagaacauuuugagucucuuuuugauugagc cgcgccaauau	75	22,66667	28,00000	16,00000	33,33333	38,66667	61,33333	1,19048	1,41667	-40,9	-40,9	0,48906	1,27	-54,53333	-1,41034
spe-miR171-3	aaucgugaauuugcgacggcucauuuuaua acgaaguucauuuuauaagaagugcgcuuuc uaauugaaccgcaccauauucuguuag	92	17,39130	33,69565	18,47826	30,43478	35,86957	64,13043	0,90323	0,94118	-28,2	-27,8	0,40775	5,55	-30,65217	-0,85455
spe-miR171-4	uagauauugaugcgguucaauucgaaagacau ggcuagauauguauuagccuuguaauuuug auugagccgcucauauucucu	86	22,09302	27,90698	15,11628	34,88372	37,20930	62,79070	1,25000	1,46154	-48,1	-48,1	0,49140	1,70	-55,93023	-1,50313
spe-miR171-5	uuauagauaguuuuuagauuggauggc ucaaucaaaucuuuuccucaaaguauugggu cauuucauuugaauugagccgugccaauaucu cuuacuuauauaugcu	112	16,07143	32,14286	15,17857	36,60714	31,25000	68,75000	1,13889	1,05882	-46,5	-46,5	0,06547	9,06	-41,51786	-1,32857
spe-miR171-6	acaagagaagauuucucuauaauagaaacc cugauauuggccugguucacucagacacauau uauuuugauugauuuuacuuuugauugagccg ugucaauaucucaguuccuuuuuacuaauuuu caucau	134	14,17910	27,61194	17,91045	40,29851	32,08955	67,91045	1,45946	0,79167	-33,5	-33,3	0,01749	12,57	-25,00000	-0,77907
spe-miR171-7	gguaugaagaagaauacaagagugauauuggu ucggcucaucucuauucuguuucacgaucag aaauuagugagccgaaccauauacacgccaug	112	19,64286	29,46429	21,42857	29,46429	41,07143	58,92857	1,00000	0,91667	-46,2	-44,7	0,04037	12,41	-41,25000	-1,00435

	ucugcuucuccaucau															
spe-miR171a	uauuggccugguucacucagacaacaaauga aaacuaauuuugaugguugaguuuucguuuu ucguuugauugagccgugccaauau	89	20,22472	26,96629	15,73034	37,07865	35,95506	64,04494	1,37500	1,28571	-37,7	-37,7	0,47333	1,88	-42,35955	-1,17812
spe-miR171e-1	uuuugggauuaaauggaagcgauguugg ugagguucaauccgaagacgaauuuacgcuua uuuucguaaaagaacgaucucagauugagccgc gccaauaucacucuuuuuuuauccauuu	127	20,47244	28,34646	17,32283	33,85827	37,79528	62,20472	1,19444	1,18182	-52	-51,1	0,09527	4,07	-40,94488	-1,08333
spe-miR171e-2	uagagaagcgauguuggugagguucaauccga agacgaguuuacguuuuuuuuagaaaagaac gaucucagauugagccgcgccaauaucuuuuc uuu	100	23,00000	28,00000	16,00000	33,00000	39,00000	61,00000	1,17857	1,43750	-40,7	-37,7	0,21389	3,86	-40,70000	-1,04359
spe-miR172-1	ugcagauguagcaucaucaagauucauacaug aaaauuagaggccaagguuuuuuuagugcuu uaauuuagaauggaaaaauauuacaucauga ccaugucuuuuuuucaaagugagaaucuug augaugcugcaucagcaaaaaaacuauugc	159	16,98113	38,99371	13,20755	30,81761	30,18868	69,81132	0,79032	1,28571	-57,3	-54,1	0,02713	11,52	-36,03774	-1,19375
spe-miR172-2	cugucaccgauaguuuuuuugcugaugcag caucaucaagauucacuuugaaaauaaug acauggucaugauguauuuuuuuuccauuu aaauuuagcuacauuuuuuacuuugccuuu aaauuucauguauaauuuuugaugcuaca ucugcaaacacaacuguguugauua	186	13,44086	31,18280	17,74194	37,63441	31,18280	68,81720	1,20690	0,75758	-51,8	-49,7	0,00264	18,81	-27,84946	-0,89310
spe-miR172-3	aucagucaauguuugaggaucaucaucauca agauucacaaaacuugaaggaagaacuuuuu auuauauguuuuagggugaauuuggaauaua auauaguucaaaaucuuuuuuucucuuuu gggaaucuugaugaugcugcaucaucauacau augacucua	169	15,97633	33,72781	14,20118	36,09467	30,17751	69,82249	1,07018	1,12500	-58,7	-55,7	0,03741	12,68	-34,73373	-1,15098
spe-miR172-4	uagagucauauguuagauugcagcaucauc aagauuccaaagagagaaaaaagagauuuu gaacuaauuuuuuauuuccaauuuuacccuaa acauauuuuuuuuaguuuuuuuacuuuuu ugugaaucuugaugauguugcauccucaaaca uugacugau	169	14,20118	36,09467	15,97633	33,72781	30,17751	69,82249	0,93443	0,88889	-55	-53,8	0,03580	13,26	-32,54438	-1,07843

spe-miR172-5	aaagccauuuuugccgcugcagcaucauca agauucccacacaucgccauaggguuuuuuaa aaaauaauaaaaucccuauuguagcuauugugaa ucuugaugauguccaccgccaaaaauugac uuga	132	15,15152	33,33333	23,48485	28,03030	38,63636	61,36364	0,84091	0,64516	-43,6	-38,2	0,01507	8,78	-33,03030	-0,85490
spe-miR172-6	uaauugcuagugcagcaccauuaagauucaca uagaaaaauagaacuaauuugcccauuuuu ucaauacaugagaaucuuugaugaugcugcauc ggcaauugg	105	17,14286	35,23810	17,14286	30,47619	34,28571	65,71429	0,86486	1,00000	-37,3	-36,8	0,16611	10,58	-35,52381	-1,03611
spe-miR172-7	cagucguuguuugcaaaugcagcacuauuaag auucucaaaaauucgacauuuuuuuugcauu aaaugugaaucuuugaugaugcugcauuagcaa uaaacgacu	105	16,19048	35,23810	16,19048	32,38095	32,38095	67,61905	0,91892	1,00000	-44,3	-44,3	0,39910	4,45	-42,19048	-1,30294
spe-miR172-8	uuuagucguuuuauugcuauugcagcaucauca agauucacauuuuauuugcauuuuuuuugucga auauuuugagaaucuuauuagugcugcauuugc aaacaacgacugug	110	16,36364	30,90909	15,45455	37,27273	31,81818	68,18182	1,20588	1,05882	-41,9	-41,9	0,11238	8,38	-38,09091	-1,19714
spe-miR172a	uacagucguuguuugcguaugagcauaauca agauucacaugaaaaguugcaauuugguuaua uaauuuuugagaaauuuuugcugcuaucugaa acucaugagaaucuuugaugaugcugcaucugc aauaaacgacuaau	142	19,01408	33,80282	14,08451	33,09859	33,09859	66,90141	0,97917	1,35000	-54,4	-54,4	0,03828	15,79	-38,30986	-1,15745
spe-miR172d	uggagcaucaucaagauucacauagcuacauu agggaauuuuuauuauuuuuuuuuuacccuauggg cgauuguguggaauucuuugaugaugcugcag	94	23,40426	28,72340	14,89362	32,97872	38,29787	61,70213	1,14815	1,57143	-43,1	-39,6	0,02696	10,06	-45,85106	-1,19722
spe-miR1886-1	gcguuuuggccauguaauaccuaucacgcauau gguaauuugagauaggaaauuaggguuuuggacau gucuuuuuacguuugauuucaucucaugauucc acaucaugagauugauaucauauucuccaaa aau	131	19,08397	29,00763	16,03053	35,87786	35,11450	64,88550	1,23684	1,19048	-43,1	-42,9	0,10851	6,71	-32,90076	-0,93696
spe-miR1886-2	gccaugugauaucauaucaacaauaugguaucg ugagauagaaaucagcauuuuggacauaucauuu uacgcugauuuccaucucaugauuucauaucau gagauugauaccuuuuuu	116	16,37931	30,17241	17,24138	36,20690	33,62069	66,37931	1,20000	0,95000	-44	-43,8	0,11604	8,37	-37,93103	-1,12821
spe-miR1886h-1	gccaugagauaccuaucugugccuuuuggcca ugagauaucauaucaacgcauauugaaucugag	173	17,91908	30,05780	15,60694	36,41618	33,52601	66,47399	1,21154	1,14815	-63	-58,97	0,01164	22,27	-36,41618	-1,08621

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spe-miR1886h-2	uuggacaugcgauuuuacguugauuucaucuc augauaugugacuccauuuucuccaaaauca ugauaugaaucauaugagauaucauaucau g	97	14,43299	32,98969	16,49485	36,08247	30,92784	69,07216	1,09375	0,87500	-23,9	-23,9	0,24274	9,68	-24,63918	-0,79667
spe-miR1917-1	ucucacuaacaauaaaaaauacuuuuagcggca auaaaauagauacauuaauaaagagugcuaaag ucuuuacggcgcauuaguuaagugucauuagau ccaauugcgcuaaagccuuuagugacacauac aaagagugcuauuugccacuaaaaaauauau uuagcggcgcaauugcuauuuauuugccgcuaaa gcuauuuuuauaguagugucu	214	15,42056	35,98131	16,82243	31,77570	32,24299	67,75701	0,88312	0,91667	-65,2	-62,3	0,00325	31,94	-30,46729	-0,94493
spe-miR1917-2	aacuuuuagcggcaucaaauuugauuuauu aaagagugcuaaagucuuuacggguuuuaguu agugcuauuagaacuaauugcgcuaaaggcuu uacggacauauacaaagagugacauuugccgc uaaaaaua	136	18,38235	36,76471	14,70588	30,14706	33,08824	66,91176	0,82000	1,25000	-39,1	-30,94	0,02995	19,27	-28,75000	-0,86889
spe-miR1917-3	aaccacuguaacaaaaaauacuuuuagcggca aaaauagacacauuuauaaagagugcuaaagu uuuuaccugcauuaguuaagugcgaauagauu caacgucagaacauuuuagaagagugcuauu ugcaguuaaaaauacacauuuagcggcauug cuauuuuuuugccgcuaaaguucaguuuugau auagugagc	201	17,41294	38,80597	15,42289	28,35821	32,83582	67,16418	0,73077	1,12903	-48	-43,94	0,00063	39,12	-23,88060	-0,72727
spe-miR1917-4	uuagcugcauuuuauuugacauuuauuuuaga gugcuaaagucuuuacggcgcauuaguuaagau cauuagaacaaugucggcucaagacuuuaggg acauuacaaagaguguuugauuugccgcuaau aaaaauacauuuuuagcagcauuuagaauaa auugccgcuaauuacauuuuugauuaguga uccaauagacauacacuuuuguuauugugua uuuuuuuugcugcuau	240	17,08333	35,00000	14,16667	33,75000	31,25000	68,75000	0,96429	1,20588	-85,3	-82,8	0,00616	21,22	-35,54167	-1,13733
spe-miR1918	gucagauuuuagguagcucaguugguuuua cuaguuggauuugcauucuguuuggugagagu cgauucuccauuacguauucuccuucuucauuu aagagaaaaaaauugcuacaagguggagauu	197	19,28934	31,47208	15,22843	34,01015	34,51777	65,48223	1,08065	1,26667	-71,4	-70,4	0,00241	22,32	-36,24365	-1,05000

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spe-miR1919	uccgaaucgcuccgacgccuuugauguacau cuuccggugaguccugcgcagagacuuucgcc cuuuuauuggaaccacacuuucucuaauuugaa uucuaugugguaggacgagagucacugugac aggauaauuggaagaucgaguuaucaaaggcuu auugggcguuccuu	177	22,59887	22,03390	22,59887	32,76836	45,19774	54,80226	1,48718	1,00000	-85,8	-85,8	0,12075	8,43	-48,47458	-1,07250
spe-miR1919c	gacgccuuugauguacacauucucgguaguc cugcgcagagacuuucgcccucuaaaggaaac cacacuuucuguaaaucuaauuaauuugaa caauguggcaggacgagagucacugugacag gauaauuggaagaucuaguuaucaaaggcuua	160	21,25000	27,50000	20,00000	31,25000	41,25000	58,75000	1,13636	1,06250	-69,2	-69,2	0,04832	12,84	-43,25000	-1,04848
spe-miR2111a	ugguaauucugcauccgagguuuagaucaauu ucuaauuuacuggaucuaguccuaggaugca gauuauuc	71	19,71831	25,35211	16,90141	38,02817	36,61972	63,38028	1,50000	1,16667	-37,7	-37,7	0,36708	1,82	-53,09859	-1,45000
spe-miR319-1	gaaaaaaggagcucucuccgguccaguccga ggcacucaaaaggcuaaaaacacagcugacgac ucguugauuucuaaacacaucaagaagcauuu uuugaaauugacguguuuaagauucaacgaug cgugagcuauuuuagcuagcguugucacguc uuggacugaaggagcucccuauuaaa	187	22,45989	29,41176	21,39037	26,73797	43,85027	56,14973	0,90909	1,05000	-79,6	-74,9	0,01428	25,65	-42,56684	-0,97073
spe-miR319-2	ugguaauaagagagcuuccuuuaguccacau agguagacgaaggauuugaauuaucuccgac ucauucuucaaacgcgaauagaauguauuaa ucuuauacuaauugugaaugugugaaugugcg ggagauaaaaucucuccuuuuuauucugugcuu ggacugaaggagcucccuuuuacc	185	20,54054	27,56757	18,37838	33,51351	38,91892	61,08108	1,21569	1,11765	-92,3	-90,5	0,02231	10,30	-49,89189	-1,28194
spe-miR319-3	aaggaaacuguuuaguccaaccacaggugggu uacuggaacugauuuugcugcugaaucauug gcucaugagcagucuaaagaagauugaac auucuggacauguucucuguccaaugauacag gagcugagcucgguuuuuacaccgccuuuuucuu ggacugaaggguucccuuc	179	24,02235	24,02235	21,22905	30,72626	45,25140	54,74860	1,27907	1,13158	-82,3	-81,5	0,06410	6,73	-45,97765	-1,01605
spe-miR319-4	gaugggauaaggaggaauuaucaucaguccaa acaaggugguauauuugggcugaucuuugcug	197	21,82741	28,42640	17,76650	31,97970	39,59391	60,40609	1,12500	1,22857	-86,8	-85,1	0,06124	7,18	-44,06091	-1,11282

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spe-miR319a	agagcuuuucaguccacacauggggagcgga uaggguucauuugcugccgacucauuc aaauguugaggucuuugauaaucgaugucacc ucagcaacugagugaaugaagcgaggagucacaa guugagucuuagcucucguacuuggacuga agggagcucc	170	26,47059	25,29412	21,17647	27,05882	47,64706	52,35294	1,06977	1,25000	-88,8	-88,2	0,08093	6,12	-52,23529	-1,09630
spe-miR319c-1	uaggagcuccuuucagggccaagaccaggaggac gaggagcggcaagagcugccuagucaugcaua uugguuuacccuuauaaacaaauuauugauuag uguuaagauuaaccaguugcaggaaggaggag caacuacuuccgcuacuugucacuuauugg acugaaggagcuccu	177	24,85876	28,81356	20,90395	25,42373	45,76271	54,23729	0,88235	1,18919	-89,2	-89,2	0,09586	5,72	-50,39548	-1,10123
spe-miR319c-2	caagagagcuuccuucagcccacucacggagga gaaauuggguuugauuagcugccgacucauuc auccaaccacucagugaaaggauagguuuug ugcuacugugauugagugaaugaugcgggaga uaguuuuuauuccucucuuuccuugcugggac ugaaggagcuccuuu	178	25,28090	23,59551	21,91011	29,21348	47,19101	52,80899	1,23810	1,15385	-77,1	-65,9	0,02388	17,43	-43,31461	-0,91786
spe-miR319c-3	aaggaaacuguuuaguccaaccgaaggugggc uauuggaacugaucuuugcugugaucauug gcucaugagcagucuaaagaagauuuuac auucuggacauuuucuccaaugaugcag gagcugagcuuncggaguuauagguacuugaga aagcagaggagagaaggaa	179	27,37430	30,16760	15,64246	26,25698	43,01676	56,42458	0,87037	1,75000	-54,3	-46,5	0,00367	29,81	-30,33520	-0,70519
spe-miR3627-1	gucgcaggagagauaggcacuuaccuuuccuuu uauuugguacaauugccuauuaggaaccuuuau gugccucugucuuucgaca	83	20,48193	26,50602	22,89157	30,12048	43,37349	56,62651	1,13636	0,89474	-33,4	-33,4	0,34502	2,22	-40,24096	-0,92778
spe-miR3627-2	uaaucauucaauuaggagagauagggaau cuugucgaggagagauaggcacuuaccuuucc uuuuuauugguacaauugccuauuaggaaccu uagugccucugucuuucgacacgaugccaca auuucuuuugcauuuauaca	148	18,91892	30,40541	20,27027	30,40541	39,18919	60,81081	1,00000	0,93333	-51,7	-51,7	0,09725	6,04	-34,93243	-0,89138

spe-miR390	ugcaugggagaauucuguaaaagcucaggagggau agcgccauggaugacucaauucgauuuuuua cacacucucagcgcuauccaucugaguuuac agcuuuuaucaugc	110	20,90909	24,54545	21,81818	32,72727	42,72727	57,27273	1,33333	0,95833	-57,1	-57,1	0,38371	2,45	-51,90909	-1,21489
spe-miR390a	ggcaugggggaaucauaaaagcucaggagggau agcaccaugaaucacucuaauggcuaucau agcgcuauccaucugaguuuuuagguuucuu caugcuu	103	22,33010	26,21359	20,38835	31,06796	42,71845	57,28155	1,18519	1,09524	-51,1	-48,4	0,11196	6,15	-49,61165	-1,16136
spe-miR393	uuccaaagggauccgaugauccugugucca aaauuaauaaccaugggacuugggaucaugu gaucucuucggaau	78	21,79487	26,92308	20,51282	30,76923	42,30769	57,69231	1,14286	1,06250	-40,9	-40,9	0,20082	2,59	-52,43590	-1,23939
spe-miR394-1	acgaucuuuuuaucaugaagauuucuaaag gguuuccuacacaguuuuuugcauucugucc accuccuuugucuucauauuccucuauuuuu uagaaaaauuuuuuuuuuuuuuuuuuuuua aaaaaauggaggugggcauacugucaacaga uuuguguugguuuucuuuugugaauuucuu gauguuaauug	203	15,76355	25,61576	15,27094	43,34975	31,03448	68,96552	1,69231	1,03226	-67,2	-61,15	0,00574	28,79	-33,10345	-1,06667
spe-miR394-2	agauuaauuaguuucauggagguuugacaaag gguuucuuacagaguucuuuugcauucugucc accuccucuguuuuuuucgaaaaagaagaa gaaggggggaagcaagauuuuuguggaggug ggcauacugccaauagagcuguguugguuuc uuuuguaaaaccucugugauacacgucagua agau	196	25,00000	27,04082	16,32653	31,63265	41,32653	58,67347	1,16981	1,53125	-78,6	-78,5	0,00364	13,84	-40,10204	-0,97037
spe-miR394-3	uuuggcauucuguccaccuccagcuugcugag gacugaggagggggccaaagugccaaac	61	29,50820	21,31148	27,86885	21,31148	57,37705	42,62295	1,00000	1,05882	-31,2	-30,9	0,17506	3,56	-51,14754	-0,89143
spe-miR395a	ugcagugauucccgagaguuuuccuugaccacu ucaugagggcuuaauuacuuuguuuuuuaucc cuugcugaaguguuuugggggaacuucuggguu cacuuua	103	24,27184	17,47573	19,41748	38,83495	43,68932	56,31068	2,22222	1,25000	-42	-40,1	0,06330	10,38	-40,77670	-0,93333
spe-miR395d	ucaagguguuuccuagaguucccuugaccucu cauuagggguuuacucuuuguuugauuccugc ugaaguguuuugggggaacuuuuggacucacau uga	100	24,00000	18,00000	20,00000	38,00000	44,00000	56,00000	2,11111	1,20000	-36,3	-34,1	0,02113	11,82	-36,30000	-0,82500

spe-miR395g	agaugauucauuuauauauaaucaagguau ucucgagaguaccuuugaccacuucaugagg gauuaauuuuuuuuuuuugaugcucuguuga aguuuuugggggaacucucggguucaguuga aguauacacaaacuaguaaacaugca	154	20,77922	27,92208	14,93506	36,36364	35,71429	64,28571	1,30233	1,39130	-45,8	-45,6	0,03056	13,04	-29,74026	-0,83273
spe-miR395i	uguuugaucccuacugaauguuuuggaggaa cucucggguuuuacuuagaaaauacacaaaa guagaaaugcaagauaaauuggaagauagaa uuuucauuugauaaucuuauaucuguaauca agguguucucgagaguucccuugaacacuua uaaggauuuuuuu	174	18,96552	32,75862	13,79310	34,48276	32,75862	67,24138	1,05263	1,37500	-54,5	-47,5	0,00665	27,98	-31,32184	-0,95614
spe-miR396-1	agucaugcuuuuccacagcuuuuugaacuuc uuuugcuaaaauuuugaucucuaauugauaa uuuugagauagauuuuagcuugaagucc aagaaagcugugggaaaagaugcga	122	19,67213	31,14754	14,75410	34,42623	34,42623	65,57377	1,10526	1,33333	-49,4	-46	0,00901	16,78	-40,49180	-1,17619
spe-miR396-2	aagcuugccaucuuuuuccacagcuuuuugga cuuucuaugcucaaaucucucuaaaaaaua ucaauuuagagaucaaaaauuagcaagaagaa guucaagaaagcuguggaaaagcaugacuagg ac	131	16,03053	35,11450	19,84733	29,00763	35,87786	64,12214	0,82609	0,80769	-45,1	-45,1	0,02604	10,18	-34,42748	-0,95957
spe-miR396a	uuuuuguguuuuuccacagcuuuuugaacug caucuacaauuuuagaaaaagaaaaauugau ucauauuguuguugcgguucaauaaagcugug ggaagauacag	107	18,69159	30,84112	13,08411	37,38318	31,77570	68,22430	1,21212	1,42857	-48,2	-47,9	0,02778	8,77	-45,04673	-1,41765
spe-miR397	ugaguacuuagaacauauugagugcagcgu ugaugacauauuugagaauuccugcauuuugg ccuuccucauuuuucaucaacgcucacacugau cauguuuuuuuuucucuga	116	17,24138	25,00000	20,68966	37,06897	37,93103	62,06897	1,48276	0,83333	-45	-44,8	0,12429	4,97	-38,79310	-1,02273
spe-miR398	guagggcaacuugagaucauguuugucauuu uuuuuuuuuugguuuugauuugaauacagua ucucaacauuguuucucaggucgccccug	93	21,50538	19,35484	18,27957	40,86022	39,78495	60,21505	2,11111	1,17647	-34,6	-31,27	0,09493	13,39	-37,20430	-0,93514
spe-miR398a	ggguugauuuugagaacauauguugcuaau uuuguuuuguagcauuuauuguuuuuuuuu gacacauauguucucaggucgccccu	90	21,11111	24,44444	14,44444	40,00000	35,55556	64,44444	1,63636	1,46154	-33,8	-27,6	0,01674	17,34	-37,55556	-1,05625
spe-miR398b-1	cagaggaguguccuagaacacagguguauu uuggucuuccuguuuuuggacacaauguau	89	24,71910	20,22472	21,34831	33,70787	46,06742	53,93258	1,66667	1,15789	-45,1	-45,1	0,69707	1,24	-50,67416	-1,10000

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spe-miR398b-2	ccaaauuauuguauauuacauuauauau augaaucaugaugaacaauuggugaaucccg aggagugugccuggaaacacaggugcauuug guccuuuuuuuuggcaauuugggacaaaau auauuuguguucucaggucacccuuugggau caccuuguuuuuuuauuguauuuauuuuugu agaauaauguuauuacuuauuaca	218	17,43119	27,98165	15,13761	39,44954	32,56881	67,43119	1,40984	1,15152	-75,1	-63	0,00120	41,81	-34,44954	-1,05775
spe-miR399-1	aaaguucgugaauggugaauuuaagggaa acagugauagggcuacgcucuuuggcaugca gcuuuuuuggugcuccaaguagcaacuugau cuauuuuuugagcugaaugccaaaggagagu ugcccguguuacugucucuauuauuauuau aauuacacgcacauac	175	22,28571	29,14286	17,71429	30,85714	40,00000	60,00000	1,05882	1,25806	-62,4	-59,4	0,00681	26,21	-35,65714	-0,89143
spe-miR399-2	cuuauuaagugaagcaguuguagggcaguucu ccguuuggcagauauuauuauuauuauuau cugccaaaggagagugcccuacgcuuugcguc ugcuuauuuau	107	24,29907	26,16822	15,88785	33,64486	40,18692	59,81308	1,28571	1,52941	-59,2	-56,9	0,14690	3,67	-55,32710	-1,37674
spe-miR399-3	uuauaagggaaacagugauagggcuacucucu auuggcaugcaauuuguauauuucagcugacac gccaaaggagagcugcccguguuacugucucagc uuauac	103	22,33010	27,18447	21,35922	29,12621	43,68932	56,31068	1,07143	1,04545	-47	-47	0,46407	2,91	-45,63107	-1,04444
spe-miR399-4	uuauaagcgaaacagugauagggcuacucucu auuggcaugcaauuuguauauuucagcugacac gccaaaggagagcugcccguguuacugucucggc uuauac	103	22,33010	26,21359	22,33010	29,12621	44,66019	55,33981	1,11111	1,00000	-50,1	-50,1	0,25282	2,67	-48,64078	-1,08913
spe-miR399-5	uuguuagggaaacagugauagggcuacucucu auuggcaugcaauuuguauauuucagcugacac gccaaaggagagcugcccguguuacugucucugc uuauac	103	23,30097	25,24272	21,35922	30,09709	44,66019	55,33981	1,19231	1,09091	-47,9	-47,9	0,29698	6,84	-46,50485	-1,04130
spe-miR399-6	uuguuagggaaacagugauagggcuacucucu auuggcaugcaauuuguauauuucagcugacac gccaaaggagagcugcccguguuacugucucggc uuaguc	103	26,21359	23,30097	21,35922	29,12621	47,57282	52,42718	1,25000	1,22727	-47	-45,7	0,11127	6,28	-45,63107	-0,95918
spe-miR399-7	uuugaauuuauaagcgaaacacugauaggacu acucucuauuggcaugcaguuguguaguuuag	258	22,09302	30,62016	16,66667	30,62016	38,75969	61,24031	1,00000	1,32558	-78,2	-74,4	0,00165	44,49	-30,31008	-0,78200

	cugacacgccaaaggaugcugcacuguuacca ucucuuauauauuucuaacaaaagaaagaa guguagguggaugauauaagggaacagugg uaggacuacugaucucuaugguauagcaacua uauauuuagcugacaugccaaaggagaguug cccugguacugucucugcuuacuguaauucug a															
spe-miR399-8	ucuaauuucgaucuaauuuuuuuuuuucug aaucuuugugauuaggagaagaacgacagggc aaucuccuuuggcaagauauauauauuugugu augcaaaacauauauuaggguuugcauauau ucauuugccaaaggagauugcacuguuuuuu cuuacucccauuuuuucuuucuaugaacuuu cacauuuuauuuugauuuuucca	216	14,81481	30,55556	15,74074	38,88889	30,55556	69,44444	1,27273	0,94118	-63,4	-56,79	0,00143	35,30	-29,35185	-0,96061
spe-miR399-9	agauuuuaggucacucguuuuuuuuacaga gaccaagauagauucuccaaaggagauauug ccaaaggagauuugccuaaagacaa	90	18,88889	38,88889	16,66667	25,55556	35,55556	64,44444	0,65714	1,13333	-23,8	-21,3	0,05100	17,83	-26,44444	-0,74375
spe-miR399a-1	agggaaacagugguagggcuacucucuguugg caugcagugauauaguuuagcugauaugccaa aggagagcugcccuguuacugucucugc	92	29,34783	23,91304	19,56522	27,17391	48,91304	51,08696	1,13636	1,50000	-47,3	-47	0,06341	6,87	-51,41304	-1,05111
spe-miR399a-2	uuauaagagaaacagugguagggcuacucucu auuggcaugcacuuuacauuuuuuacugacau gccaaaggagagcugcccuguuacugucucugc uuauug	103	21,35922	28,15534	20,38835	30,09709	41,74757	58,25243	1,06897	1,04762	-47,6	-47,6	0,22637	6,15	-46,21359	-1,10698
spe-miR399d	aaaacaauuggugaagauacaauucaaacua guauuggaugcauuacugggcuaucuuuuug gcaauuagccacauuuuacauauuuuuuag ugcaaguuuuguucauuuuuugccaaagaagau uugccccguaaaucaccaauacaauauuuau aacaugagucacuucauacuuuguaau	187	13,90374	34,22460	17,11230	34,75936	31,01604	68,98396	1,01563	0,81250	-51,1	-42,18	0,00081	38,12	-27,32620	-0,88103
spe-miR399r-1	aguuauguguggaugcauuacugggcuaau ucuuuggcaauauuuuacauuuuuuuggu caauuuugucuuuuuuuugccaaagaagauuu gccccguaaaucuucauacaauuuua	123	17,07317	29,26829	15,44715	38,21138	32,52033	67,47967	1,30556	1,10526	-50,2	-48,5	0,06268	15,68	-40,81301	-1,25500
spe-miR399r-2	uucaaguuauuguguggaugcauuacugggcua aucuuuuuuggcuaauuuuacacuuuuuuu ggugcaauuuuggucauuuuuugccaaagaag	126	16,66667	26,98413	17,46032	38,88889	34,12698	65,87302	1,44118	0,95455	-44,3	-41,4	0,04785	23,82	-35,15873	-1,03023

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spe-miR403-1	ucaggaagaggcauauuucgcuuugugcgug aaucuaacgacucuuuucaucagaaaaacugu uguuguuugcuagauuacgcgcacaaacucgua auauggcuuuuccaau	112	19,64286	26,78571	19,64286	33,92857	39,28571	60,71429	1,26667	1,00000	-52,3	-52,3	0,15872	8,61	-46,69643	-1,18864
spe-miR403-2	auuggaaaagccauauuacgaguuuugugcgug aaucuaagcaacaacaacaguuuuucugauga aaagagucguuagauuacgcgcacaaacgcgaa auaugccucuuccuga	112	19,64286	33,92857	19,64286	26,78571	39,28571	60,71429	0,78947	1,00000	-45,4	-42,8	0,10161	9,61	-40,53571	-1,03182
spe-miR408	aaaaggaaggauuguggggagagaaagccag ggaagaggcagugcaguggaauaggcaaaagcaa aaaauugcacauucucugcucuggcucgucucccg ucuauccauaccacaccauuuuuaccucaa	128	25,00000	32,81250	22,65625	19,53125	47,65625	52,34375	0,59524	1,10345	-46,6	-41,4	0,04794	8,00	-36,40625	-0,76393
spe-miR408b	uauuggauagacgggacgagccagagcaugag augugcaauuuuugcuuugcuaauccaugca cugcccuucccuggcuuuccucu	88	23,86364	18,18182	26,13636	31,81818	50,00000	50,00000	1,75000	0,91304	-37,4	-37,4	0,50523	1,93	-42,50000	-0,85000
spe-miR4376	aaaaggcuugcuacgcaggagagauaugcug gacgauagagaaaaugggauuuuuuuuauugg ccagcaucauacuccugcauauuaagccuaaa	96	23,95833	34,37500	16,66667	25,00000	40,62500	59,37500	0,72727	1,43750	-46,7	-46,7	0,33648	3,38	-48,64583	-1,19744
spe-miR477	agcuaggcauugcuuugucucucccucaag ggcuccucuuaagauccuuauaaacaagaaa gcaugagggggaggaguucuuuagggugaga caucaagaaauuccuugc	114	25,43860	26,31579	21,05263	27,19298	46,49123	53,50877	1,03333	1,20833	-52,8	-52,3	0,13027	7,43	-46,31579	-0,99623
spe-miR477a	gccucucccucaaggguucucuccugcagcu uuuuauuguggaaagaagcucagcaggaggag agcca	70	25,71429	20,00000	27,14286	27,14286	52,85714	47,14286	1,35714	0,94737	-35,9	-34,5	0,04982	3,89	-51,28571	-0,97027
spe-miR477b	cacucuccucaaaggcuucgguuuuuuauugc cauuugugcuauugcuagaggcuuucgagug agaguga	72	23,61111	23,61111	22,22222	30,55556	45,83333	54,16667	1,29412	1,06250	-33,8	-33	0,18313	4,64	-46,94444	-1,02424
spe-miR479	augauggagaagcagacauggcugauauugg uucggcucacuaauuuucugauucgugaaacag auaagagaugagccgaaccauauacacucuu uauucuucuauacc	112	21,42857	29,46429	19,64286	29,46429	41,07143	58,92857	1,00000	1,09091	-52,6	-51,4	0,10829	8,75	-46,96429	-1,14348

spe-miR482-1	uucagaaaauugggaagggaugaagauuuuug ggaagcuuuuggcgugaguggugggaaagau agaucuaauucauauuuuguaugauaugauaaa cuugccuacaccgcccaugcccauggucccaa uuauuuucuccuuuccauacaauuuucuua	159	21,38365	26,41509	18,23899	33,96226	39,62264	60,37736	1,28571	1,17241	-69,2	-69	0,00845	10,26	-43,52201	-1,09841
spe-miR482-2	guguuucgaggagguguuggagugggugguau gguaagauuucauauuuuuuuuucauaaaaa ugaaaucuuugccaauaccgcccauuccauuggc uucugaucauuuc	110	22,72727	23,63636	15,45455	38,18182	38,18182	61,81818	1,61538	1,47059	-50,9	-47,8	0,03203	12,21	-46,27273	-1,21190
spe-miR482a	gaaaaucuaugggaauuggugaguuggaaagc uuuuuuuuuuuuuuuuuuuuuuuuuuuuuu aaauccacccauuccuauugguuuuuucg	91	18,68132	19,78022	18,68132	42,85714	37,36264	62,63736	2,16667	1,00000	-42,9	-42,9	0,36593	1,78	-47,14286	-1,26176
spe-miR482b	auuuuuucaggaagcuuuuggaguggguggcau gguaagauaucauauuuuuuuuuuuuuuuuuuu aaaugaaaauaaaucuuaccgaauccccca uuccaauugguuccaguuuuuuuuc	119	16,80672	29,41176	16,80672	36,97479	33,61345	66,38655	1,25714	1,00000	-49	-48,6	0,13980	6,03	-41,17647	-1,22500
spe-miR482d	uuugggagugggugggauggaaaaauuuuau uuguuuuuuuuuuuuuuuuuuuuuuuuuuuu uauugagauuuuuuccuauuccaccgaugccaa ugguuccaaucuuuuu	113	21,23894	27,43363	12,38938	38,93805	33,62832	66,37168	1,41935	1,71429	-42,9	-41,8	0,05820	16,47	-37,96460	-1,12895
spe-miR482e	guugaaaagggaugagagauuugggaaguugu gguuuggguggguggguggaaagauuuuugaau cuauuuuuuuuuuuuuuuuuuuuuuuuuuuuu gaaaagagauuuuuuuuuuuuuuuuuuuuuuu uaccgaugacuuccacuagcuuuccuccuuuuuu c	162	20,98765	29,01235	15,43210	34,56790	36,41975	63,58025	1,19149	1,36000	-72,2	-72,1	0,02813	10,02	-44,56790	-1,22373
spe-miR5014a	cauuugucauacaugauacauacauacgacaa cuuuugucuccuacauagauauuucacguguau augucauguaggacacuuguguguacuuguuc aaauuuuguacaaaauuuuaguguauacuuguc auauucaaagguugaaggacauaguuguuuugu gaagccaaaauuagcgucuauguauuuugccag cuaucauauuguuacgucuuagauauuagaaa uuguuguuuucaucucauuauauuguaaagca auuu	260	16,53846	28,84615	14,61538	40,00000	31,15385	68,84615	1,38667	1,13158	-62,4	-47,1	0,00072	59,25	-24,00000	-0,77037
spe-miR5174d-1	uuacuccuccgguuucaaaaagauuggcuuag uuugacuuuggaacggaguuuuagaaaagaaag	255	17,25490	36,86275	12,94118	32,94118	30,19608	69,80392	0,89362	1,33333	-59,9	-54,7	0,00041	56,97	-23,49020	-0,77792

	aaaacuuuuuuaucuuugguucuaauuuaaa auuaugucaaauguaacaaaauaccuuuaau cuugugaucuuaaaacaugucaugggaaaguu aaaguuaaaguguugccaaaaaggaaauugg ucauuuuuuugaaaacagacuaaaaaggaaau aggaccauucuuuuuuaacaaaggagauau															
spe-miR5174d-2	auuuuuuacuccuccguuucaaaaagauugg ccuacuuugacuugaacggaguuuaagaaa gaaagaagacuuuuuauucuuugguuucuaau uuaaaguuauugucaaaauuaccagaauacccu uuauucuuugguucuuuaacaugccacgugga aaguuuaaguuuaaguguugccaaaaaggaa aggggucauucuuuuuuaacagacuaaaaag gaauggggucauucuuuuugaaacggaagga guauauuuuu	266	18,79699	34,58647	13,53383	33,08271	32,33083	67,66917	0,95652	1,38889	-73,7	-56,95	0,00006	63,57	-27,70677	-0,85698
spe-miR5174d-3	acuaauuuacuacuccuccguuucaaaaaga uuggccuaguuugacuuaagaggaguuuaag aaaagaagaagacuuucuuuugguucuaaa auuaaaguuauugucaaauguaacaaaauccc uuuaucuuugguucuuuaacaugccacgugg aaaguuuaaguuuaaguguugccaaaaaggaa aaggaucauucuuuuuugagcaaacuaaaaag gaaauagggaucuuuuuuuaacggaggga guauauuuuuuu	268	18,28358	35,07463	13,43284	33,20896	31,71642	68,28358	0,94681	1,36111	-76,9	-58,4	0,00254	51,01	-28,69403	-0,90471
spe-miR530	auuuuuuacugcauuugcaccugcaccuuagu gaacgaauuuguucgcuaugauucgugcaga aagguguaggguucaugcagacaaaaau	93	22,58065	26,88172	17,20430	33,33333	39,78495	60,21505	1,24000	1,31250	-43,5	-43,5	0,15759	9,04	-46,77419	-1,17568
spe-miR5300	uugaccaaaaucuuuuccccaguccaggcau uccaacaguuuagauaacaucuaagaucgcaau ccuuuguauuuuuguucuuuauuuuucacau gacauucuaaaauccacugugagcuucauca uaagcuuaagaaugguaguuuuuugaugaugug augccuaaaaaggauuaagaaagucuggu aaaaagguguucaaaucuggagguuauuuuaa gcuggguuauugcuuuuugggaaagauagac uuagguca	265	20,00000	29,05660	16,60377	34,33962	36,60377	63,39623	1,18182	1,20455	-91,8	-89,4	0,00145	16,00	-34,64151	-0,94639
spe-miR5303	auuuuuuagaguuucgagcaacauagccuua aguacaguuuuucuuuuuuuuuuuuuuuuu uaccuauugcuuuuacgugaauuugcuuucuc uaguuuagaccuagcuucgauuuuuuuuuu	202	18,81188	29,70297	14,35644	37,12871	33,16832	66,83168	1,25000	1,31034	-52	-50,1	0,00570	37,44	-25,74257	-0,77612

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spe-miR5303-1	uugcuaaguugcucggacucuccaaaaaugc gcugcaccgugugggauccuaaaaauacac uaauuuuggaggauccgagucguacccguuga cauuuuugaagauucgagcaacauagauu	126	22,22222	26,98413	21,42857	29,36508	43,65079	56,34921	1,08824	1,03704	-56,8	-52,7	0,17151	8,89	-45,07937	-1,03273
spe-miR5303-2	uaaguugcucgaacucuccaaaauuguugc caccucugucagauccuccaaaaugcauacu uuggaggauccaacacguacccgucuaacuu uugaagaguucgagcaacaca	118	16,94915	28,81356	27,11864	27,11864	44,06780	55,93220	0,94118	0,62500	-53,8	-52,9	0,40031	2,06	-45,59322	-1,03462
spe-miR5303-3	ugaguugcucggacucucuaagaauguugu caccuacucggauccuuaaacaugcacuacu uuugaaggauccggcacacccccaaaaacau uuugaagaguucgagcaacaua	119	18,48739	29,41176	25,21008	26,89076	43,69748	56,30252	0,91429	0,73333	-54,4	-54,4	0,17029	3,55	-45,71429	-1,04615
spe-miR5303c-1	aaguauuguuucggauucucuaaaaaaugc gacgggugcugccagauacuccaaaagug gcaauguuggagaaucgacacgggugcggcu acauuuuuggagaguccgggcaacauagg	126	29,36508	26,98413	18,25397	25,39683	47,61905	52,38095	0,94118	1,60870	-55,2	-53,8	0,02783	8,01	-43,80952	-0,92000
spe-miR5303c-2	ucuaaguugcggacucucaguuucaaugcg caccgugucugauucuccaaaauacacuacu uuuggagaaucggacacgacccauugacaau uuugaagaguccagcaauugca	119	18,48739	27,73109	26,05042	27,73109	44,53782	55,46218	1,00000	0,70968	-55,9	-55,9	0,17403	4,28	-46,97479	-1,05472
spe-miR5303e	agggcuauuguucgacucucuccaaaaugu caacgggugagugucggacucucuaaaauag uguacuuuuggagaaucgacacgggugcaac aucgaaagugaagaguccgggcaacuagcau g	129	27,13178	27,90698	19,37984	25,58140	46,51163	53,48837	0,91667	1,40000	-49,1	-48,91	0,06095	9,77	-38,06202	-0,81833
spe-miR5303f-1	aagagauuauucucucuuuuuauuggaaacuc uaccuauguugcucggacucucuaaaaaugu aaggggugcugccggaauucgcaaaagug guuuuuuuggagaaucgacacggguuuugca ucgaaagugaagaguccgcaacauagcucu uuacuucuauguuuucacacgguauuuagaa guaccaacuucuauguuuuuuuuuuuuuaa cggaccuuuuuugcucuuaacaaaaagcaaaa agaaauccacaaucauacacagguuuugcga	310	19,03226	29,67742	18,38710	32,90323	37,41935	62,58065	1,10870	1,03509	-93	-89,5	0,00004	27,38	-30,00000	-0,80172

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spe-miR5303f-2	ccugacuuauguugcucggacucuaaaaaa gucaaaagggugcgugucggauucaccaa aguguauuuuuggagaauucugacacggg gcaucaaaguaaagaguccgcgaacuaagc uccug	133	25,56391	27,81955	21,05263	25,56391	46,61654	53,38346	0,91892	1,21429	-56,3	-54,5	0,07538	5,70	-42,33083	-0,90806
spe-miR5303f-3	gguguauuaaagcuauugcuuggaauuc aaaauugucaaggggugugcgugcggaucg caaaaguguguauuuuuggagaucugacac gggugcggaucuaaaagaaagaguccgcga acuuaggauuaagcaca	147	27,89116	29,25170	14,96599	27,89116	42,85714	57,14286	0,95349	1,86364	-45,7	-42,9	0,01030	24,09	-31,08844	-0,72540
spe-miR5303h	aacaauuuugaagagucgagcaacauagcug cuuaugguuaggaucucuaaccaacaauaac ugcuuaaucauaaaacagcucaauacuuaa auggucuaacaauaauuuaugaaauuuc aucaaguuaacuugccaauuuuaaaagua aaucacgguaaagccuuguuuaauuugacu auaaaauaccaacguauuuaggggaauaac aaguuuuguccuucucaugauuuucccauu agcagucuaagcuuaauuuuucuuugcuugau augauugagucaaaauuuuaaaccuuuug cucggacucuaaagauauc	341	14,07625	31,96481	17,59531	36,36364	31,67155	68,32845	1,13761	0,80000	-79,9	-55	0,00002	89,56	-23,43109	-0,73981
spe-miR5368	cuaaccuugugucaggaccuacgggccaaggg acagucucagguagacaguuuuauugggcg aggccuccaaaagguaac	83	28,91566	25,30120	25,30120	20,48193	54,21687	45,78313	0,80952	1,14286	-33	-33	0,44866	1,92	-39,75904	-0,73333
spe-miR6024	agaugaggaaguggagaacaacacucgaa aggaacucaccagucacucuuuuuucuuug aguuuuuuagcaagaguuguuuucccucuc ucauuu	102	18,62745	26,47059	18,62745	36,27451	37,25490	62,74510	1,37037	1,00000	-41	-41	0,07024	12,97	-40,19608	-1,07895
spe-miR6027	uuuccauaaauuacaugauuagggagacac aaggauuaaugugaacaaaagugauaugc aaagaagauaggagauucaauuuuuuugua cgaagaaaaacacuuuuguguuucucgugauc cuucggcuaccuauaaucauguugaugugug acuu	164	19,51220	32,31707	12,80488	35,36585	32,31707	67,68293	1,09434	1,52381	-55,7	-45,9	0,01300	27,23	-33,96341	-1,05094
spe-miR6144	uaauucaacaacaauaaggcaacuucuc cauguucuuuauuccucuaaauucuaacca	188	21,27660	22,87234	22,87234	32,97872	44,14894	55,85106	1,44186	0,93023	-58,4	-44,07	0,03128	29,81	-31,06383	-0,70361

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spe-miR6440b	cuacaagauaccauaggaaauuuuuugaaau aucuuucaacgucgaguuugaucaauuuc gaguuugacgaggaggaugcuuuuuugaa guugggaugucagauaaagaagucaaaacc ggauuuuagaagggaauugugguuuuucaca acccaauuaauuuuuuuuuugguuauuuu ugaug	197	20,81218	30,96447	12,69036	35,53299	33,50254	66,49746	1,14754	1,64000	-47,2	-47,2	0,00377	22,18	-23,95939	-0,71515
spe-miR6478	aaauggagaaaaauaaauacauagcuuaca cuuuuagccuacucuaaaggauuacucauaaa gagaguuuuuuuaguuuuuuuuuuuuuuu acuauuuuagcagcagcagcagcagcagcagc uugguagagcggaagacugauuuguguaaaag ccggcgagauaaucuuuaggucgucgucgucga auccggcaggucggauuuuuuuuuuuuuuuu cuauucuacaacacgaaaaauuuuuuucgucg ucguuagguuucuuuuuuuuuuuuuuuuu uacuuuuuuuuuacucacacaa	309	18,12298	32,03883	14,88673	34,95146	33,00971	66,99029	1,09091	1,21739	-73,8	-63,1	0,00007	65,34	-23,88350	-0,72353
spe-miR7696c	uuuuugaugguuuuaggcuuucaaguuucguu ugugcaucgucuccuaggucuuuuuuuuguu uuuuuuuuuuuuuuuuuuuuuuuuuuuuuu gaaauugugacuuucaaagggaaggaacuuuuu guuguaauaccuacagucuuuuuuuuuuuuuu ucucuuuuuuuuuuuuuuuuuuuuuuuuuu ucaaauagcuucaaagggaauuuuggaaaacua uuuuuuuuuuuuuuuuuuuuuuuuuuuuuu	239	18,82845	27,61506	13,80753	39,74895	32,63598	67,36402	1,43939	1,36364	-54,9	-54,4	0,00225	32,44	-22,97071	-0,70385
spe-miR7980b-1	ugaccaugugauaucauaucaugauuuuguau ugugagauggaaucauguuuuugacauacgau uuuacgcugauuacacucagauuuuucuuuau augagauugugauaccuuuuuucccaaaaauca ugauauuggaaucauauugggau	149	18,79195	30,87248	14,76510	35,57047	33,55705	66,44295	1,15217	1,27273	-61,5	-58,6	0,04587	9,11	-41,27517	-1,23000
spe-miR7980b-2	aagauacagaauccugagauuggaaucauguu uggacauacaauuucacguugauuuccaucuca uguuucaugucaugag	80	20,00000	30,00000	17,50000	32,50000	37,50000	62,50000	1,08333	1,14286	-27,4	-26,6	0,11557	11,26	-34,25000	-0,91333

spe-miR7980b-3	gaaauagguaucacaucucaugauauggaaauca ugagauguaaauagcguaaaaucgugaugucca aacacugauuuccaucucacaaucacauaucau gauaugauaucacauaggu	114	14,91228	37,71930	18,42105	28,94737	33,33333	66,66667	0,76744	0,80952	-33,4	-33,4	0,11747	5,54	-29,29825	-0,87895
spe-miR7980b-4	aaauauaggcaucacaucucaugauaggaauc augagauggaaauagcguaaaaucgcuugucc aaacacugauuuccaucucacauaccacauucgu gauauaaauucgcauagcu	116	15,51724	34,48276	20,68966	29,31034	36,20690	63,79310	0,85000	0,75000	-38,5	-38,5	0,10087	8,72	-33,18966	-0,91667
spe-miR7980b-5	uaaaauucuaaaucaugauauagaaauucucac aucaugauuuuuuggagaaaugguauuuccauc ucaugacagaagaacaugagauggaaucacgu gaaauuguauuguccaaacacugauuuccauc aggauucuguaucuuagauaugauauugca	157	15,92357	35,03185	15,92357	33,12102	31,84713	68,15287	0,94545	1,00000	-52,4	-52,3	0,06990	9,06	-33,37580	-1,04800
spe-miR7980b-6	uuuaauuugcuuuuguaacucacugauacca uaucaacaaauagguaucgugagauaggaaucag uguuuggacauugcgauuuuacgcugguuucac cuauagagauugugauuuccauauucucgaagaa aucauuauagagaauuccuaucauuuuuga	159	18,23899	28,93082	15,72327	37,10692	33,96226	66,03774	1,28261	1,16000	-42,7	-38,1	0,00359	27,12	-26,85535	-0,79074
spe-miR7981	agacacgccuuuacuaaaacuaagguccuuua ccccgaauccauuuuucuguaauuuuuugua aaauuuuucggcuuuauaggcauccaaacguc cgcacgcgcuucacucauagugagucacggag ugugccacauaagcuaaaauguguaaaacua acaaaaaaauagauuuuaggguauuaggacu uuaguuuaguuuaggcaugucu	214	17,75701	30,84112	19,15888	32,24299	36,91589	63,08411	1,04545	0,92683	-92,5	-92	0,02437	18,17	-43,22430	-1,17089
spe-miR7983-1	uaauuuuagcggcaauugucacucuuuguua uguccuaaaagccuuuagcgacauugguucua aggacacuuuacuaaagccgguaaagacuuua acauucuuuauagugucaauuuuauagccg cuaaaaguu	137	16,05839	29,19708	18,24818	36,49635	34,30657	65,69343	1,25000	0,88000	-45,9	-45,8	0,11629	4,48	-33,50365	-0,97660
spe-miR7983-2	uacaaaaaugccauuagcggcauuuaauuc uaauugccgcuaaaauaguuuuuagcggca auugucacucuuuguauuuuuccuaaaagccu uuagcgacauuugguuucuaagacacuuuacua augccgguaaagacuuuacacucuuuuuag ugucaauaucuaaagccguaaaaguuuuuu uguu	196	14,28571	29,59184	18,36735	37,75510	32,65306	67,34694	1,27586	0,77778	-64	-60,1	0,02231	15,33	-32,65306	-1,00000

spe-miR7983-3	ucccaucacaacaacaaaaagaccuuuagcgg cauuuauuuuuuuuuuagccgcuaaaauauau uuuuuagcggcaauugucacucuuuguauuagu cccuuaagccuuuuagcgaaauugguuuguauag acaguuuacuaaagccgguaaaagacuuuuaaca cucuuuuuuuagugucaauuuuuuagccgcua aauguuuuuuuuuuuagugauguauuuuuuu	221	14,93213	30,76923	17,64706	36,65158	32,57919	67,42081	1,19118	0,84615	-67,2	-65,4	0,01364	17,74	-30,40724	-0,93333
spe-miR7983-4	uguauuuuuuagcggcaauugucacucuuugu gauguccuuuaagucuuuuagcgacauugguuc uaauaggcacuuuacuuuagccggaauaaagacuu uaacaccuuuuuagugucaauuuuuuagcc gauaaaaauugu	140	16,42857	29,28571	16,42857	37,85714	32,85714	67,14286	1,29268	1,00000	-38,6	-38,6	0,05872	10,75	-27,57143	-0,83913
spe-miR7983-5	uguauuuuuuagcggcaauugucacucuuuuu uauguccuuuaagucuuuuagcgacauugguuc uaauagcacuuuacuuuagccgguaaaagacau uauacacucuuuuuaguguuuuuuuuuaguc cgcuaaaaauuuu	141	14,18440	29,78723	16,31206	39,71631	30,49645	69,50355	1,33333	0,86957	-37,8	-36,5	0,02909	17,76	-26,80851	-0,87907
spe-miR7983-6	uugacacuaacaacaaaaugaccuuuagcggc acuuuauuuuuuuuagccgcuaaaauauguauu uuuagcggcauuuugucacucuuuguuauuguc ccuuaagucuuuagcgacauugguucuaauga cacuuuacuaaagccgguaaaagacuuuaguac ucuuuuuuuaguguuuuuuuuuagccgcuaa aaguuuuuuuuuguuuauagugugac	216	16,20370	28,70370	17,12963	37,96296	33,33333	66,66667	1,32258	0,94595	-76,1	-74	0,00652	18,79	-35,23148	-1,05694
spe-miR7983-7	ccacacuacgaaaaauuggucauuagcggca uuuauuuuuuuuuuauucguuuuuuuuauuu uuagcgauuuuuuugucacucuuuguauuuuuc cuuaagccuuuagcgacauugguucuaaagac acuuuacuaaagccgguaaaagacuuuacacu cuuuuuuagugcaaaaauuuauugucgcuaaaa guuacuuuuuuguuuagugcac	213	14,55399	30,51643	16,90141	38,02817	31,45540	68,54460	1,24615	0,86111	-58,9	-58,9	0,01200	13,43	-27,65258	-0,87910
spe-miR7984	caaaggaaaaaaaaucugaaauauuuccuaac gcugacuuguauuuuuuuccaaacuuuggaaau gacucuuuugccuuugcacuauuuuuuagaucu uguccauguggucacauuuuuuauaccuuuuuu acacuuuuuuuagugcugagguaauagaucc uaaucacaguuuugaaauuugcagcauuuuc ggucaaaguuacgaaauuuuucgaacuuuuu ccuaaaa	230	13,91304	34,78261	18,26087	33,04348	32,17391	67,82609	0,95000	0,76190	-66,5	-65,7	0,02502	15,80	-28,91304	-0,89865

spe-miR7993a	cuuauuguaucaaguagauaaguuaaacacuu aaaugucaaccuucuuugauaaauugcauuugu cucuaauagccguaaaaacuaccccuauuggca auugaggcugauguguccuuaaaggagagg agaugacauuuuuauuggguaaacuuaaauc uauucuuaucaugcu	177	16,94915	31,63842	16,94915	34,46328	33,89831	66,10169	1,08929	1,00000	-51,8	-45,2	0,00151	18,51	-29,26554	-0,86333
spe-miR7993b-1	caccucaacccuauuacaguguccaaauaga cacuuuuugguucaaauguuugggaaauuuuga guggucuuugacgucuaauuugguaguuaguu aaccacauacagauaugucauuuuuuuuuu uacacauuaccuccgauaagccguaaaccacau gcauuuuaccuugaggugauguguaauuu aauggacagcuuauuuuacgugguauuuuu cuaccugggucaaaaguguuuaccucaaaacac uuuauaggaguugaggug	276	18,11594	28,62319	18,11594	35,14493	36,23188	63,76812	1,22785	1,00000	-87,2	-81,42	0,00014	33,99	-31,59420	-0,87200
spe-miR7993b-2	uccuuuuuuuuauugcaucaaccucaaguagg aaaugccugagguuuuauugacuuucugaggcaa guguuuuuuuuuuuuuuuuuuuuuuuuuuuu gugguuuacguuuuuuacuuuuuuuuuuuuuu gaugcccauuuuuuuuuuuuuuuuuuuuuuuu aagugucuaaugggaacucuuuuuuuuuuuuuu gagguguucauuuggaagagacuuuaguuugag uaucuuuuuuuuuuuuuuuuuuuuuuuuuuu	239	18,82845	36,40167	11,29707	33,47280	30,12552	69,87448	0,91954	1,66667	-51,3	-43,2	0,00101	62,74	-21,46444	-0,71250
spe-miR7997a	aaauuguuuaguuauuuuauugguuuuagaacc uauaugcugcucggacucuucaaaaauugcgu uacguccgugucggauccuccaaaaaguguc auuuuuuuuuuuuuuuuuuuuuuuuuuuuuuu ugggaaauccggauucuuuuuuuuuuuuuuuu accauguuuuuuuuuuuuuuuuuuuuuuuuuuu	184	17,93478	30,43478	17,93478	33,69565	35,86957	64,13043	1,10714	1,00000	-48,6	-44,8	0,00508	31,25	-26,41304	-0,73636
spe-miR7997a-1	caaucauugcugcucggacucuucaaaaauugu cgauaggugcauguuagauuacuucaaaaauua ugcauuuuuuuuuuuuuuuuuuuuuuuuuuuu aacuuuuuuuuuuuuuuuuuuuuuuuuuuuuuu a	129	20,93023	33,33333	17,82946	27,90698	38,75969	61,24031	0,83721	1,17391	-48,2	-48,2	0,09329	8,88	-37,36434	-0,96400
spe-miR7997a-2	auggcaugcugcucggacucuucaaaaauuguu gcuaggucuuuuuuuuuuuuuuuuuuuuuuuu gcauuuuuuuuuuuuuuuuuuuuuuuuuuuuuu acauuuuuuuuuuuuuuuuuuuuuuuuuuuuu a	128	26,56250	26,56250	18,75000	28,12500	45,31250	54,68750	1,05882	1,41667	-65	-63,7	0,03423	9,28	-50,78125	-1,12069

spe-miR7998	uauagacgguagguccagucacgguccauuag uggguagaccuagauuucucacucaggauguu ugaguauugugucuaacacaggguagugac ggaccguagaucauaccagguccauacugcac guuuaucaauagaucacuuagaguuuuuuuu aagucuggaugaaaaauucuaagugugacccc acggaggacccauggaccauggaucgaccgua cuuca	231	23,80952	28,13853	21,21212	26,83983	45,02165	54,97835	0,95385	1,12245	-75,1	-67,6	0,00164	45,87	-32,51082	-0,72212
spe-miR8001a	cugacacuaaacaauuuguaauuuuaggg gauuuuccuggggauuagauaaaaaucgcg gggaacuuuuuucugcauuuuuacauacua aucccccacggaaucuccauauuuuacacuu uuuugugagugugaa	144	17,36111	29,16667	16,66667	36,80556	34,02778	65,97222	1,26190	1,04167	-72,8	-72	0,13632	6,44	-50,55556	-1,48571
spe-miR8001b-1	gcuucaacaguaaaaauucagucagugua cuauuuagaggauuacaaaagugcuuuuu ugaauaaaaauuuuagaaaggaacaggcu uuacuagacgcgugaacacuaaagaagagg ugaucuauuagggaauuuuccugggguuag uaagaaauuugcaggaaaauuucugugga uuuacauacuaauuccuagggaaaauccau auucacaguuuagaucauuuuuagggacaa auuuuagcggagugugugcucacguggaaga cagaaaaacagaaaacagaaaacaagcacu cagaaauuuuacuagaaucu	341	20,82111	38,41642	13,19648	27,56598	34,01760	65,98240	0,71756	1,57778	-87,2	-85,2	0,00014	28,98	-25,57185	-0,75172
spe-miR8001b-2	aaacacuacaagaaaaggguaaaauacaggg gauuagauagaaaaauugcagggaauaccug uaauucacacuuuuuugagugaaaa	90	20,00000	37,77778	13,33333	28,88889	33,33333	66,66667	0,76471	1,50000	-34,1	-34,1	0,32729	5,28	-37,88889	-1,13667
spe-miR8005	guuuuagggucucagaccuaagauuuuaggu uagauuuaggaauuaguguuuugauuuuag gucuaaggccuugagguuuagaguuuaggguu aggguuuaugccguaggguuuaggguuuagg auuaggcuuagauuuuaguuuagggguuag accuuaaggu	170	30,00000	21,76471	7,64706	40,58824	37,64706	62,35294	1,86486	3,92308	-61,2	-61,1	0,01259	35,46	-36,00000	-0,95625
spe-miR8006	guaaaugguaugcaaaauuccauuuuuuu uugagacgcugugucucacccguuacaaaac uagagcauuuacaaauuguccuucacucuaac ggaagacuaaaauaggacacugacacaaucu uauucugucgaauaauguuuagauuuuacau guccguuaguuuuuagauuuuauuaguuuag uuuuugacggcaggggcaccauuguccaua	256	16,79688	33,20313	17,18750	32,81250	33,98438	66,01563	0,98824	0,97727	-90,9	-88,3	0,00127	24,68	-35,50781	-1,04483

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spe-miR8007a	accuacuccuccguccauuuuauugacacu uuucggauuucgagauucaaaaguguaucu uugaccaaaaauuuucagauauuuuaac auuuugaauuauaccuuauugacuuuauagu acuuuuuacguaguuuuuaaaauauaaaauu cguuuuuuuuuuugaagauuuuauugcgcaaa uuucggucaaaaaaaacgguuuugacucucg aaaaaugaaaagugccacauaaaugggauag agcaaguauua	268	14,17910	33,20896	16,04478	36,56716	30,22388	69,77612	1,10112	0,88372	-80,1	-75,4	0,00092	29,31	-29,88806	-0,98889
spe-miR8008-1	uuuuguccgucguuuuuugcuuuuuuuuu caaaauaaacccagaaaaagcgaggaagguu cuuuguccgucacucucuaagguuuuuuaa aaaauuuuucaaaggaaagcgacagacauug	127	17,32283	28,34646	18,11024	36,22047	35,43307	64,56693	1,27778	0,95652	-42,6	-40,8	0,01050	19,08	-33,54331	-0,94667
spe-miR8008-2	uccaucucuuuuucaaauaaacucagaaaaag cgacggacagaaacuuuaguccgucguuuuc cgguacuuuuuuuuuauuauuuccagaaaaag ugacggacaguguccuuuaguccgucguuuu cugagauuuucaaauuuuuuuuuu	154	14,93506	30,51948	21,42857	33,11688	36,36364	63,63636	1,08511	0,69697	-49,7	-45,7	0,02256	11,33	-32,27273	-0,88750
spe-miR8008a-1	caaaaaauugcagaaaaagcauugacagcg uggucuauguccguuuuuuugguuuuuuu aaaaauuuuuccagaaaaagcgacgaacagug uccuuuuguccgucguuuuuuggguuuuuu aa	130	20,00000	28,46154	16,92308	34,61538	36,92308	63,07692	1,21622	1,18182	-49,6	-49,6	0,01602	11,71	-38,15385	-1,03333
spe-miR8008a-2	uaauuuccagaaaaagcgacgaacaguguccu uuguccgucguuuuuugggauuuuucaaaa ugaaauuucacaaaaagugaauaacggcgucg cauuuucgggaauuuuuuuuuuacauucggcg gaguauugucguuuuauuuuuuuuuuuuuuu auaaauuuuuuaguuucacgacagugucuguc gcuuugggaaaagc	206	19,41748	35,43689	15,04854	30,09709	34,46602	65,53398	0,84932	1,29032	-55	-28,8	0,00236	78,49	-26,69903	-0,77465
spe-miR8008b-1	aaaccagaaaaagcgacggacaggguccuuua gucugucguuuuucuggguuuu	54	25,92593	24,07407	22,22222	27,77778	48,14815	51,85185	1,15385	1,16667	-35	-35	0,29561	2,40	-64,81481	-1,34615
spe-miR8008b-2	uugaaaaauugcagaaaaagugacguacuaaagg accuauccaucacuuuucugaaaauuuuu uuugaaaaaccagaaaaagcgacagacuuuag gaccuguccgucguuuuucuggguuuuuuug	194	17,52577	31,44330	19,07216	31,95876	36,59794	63,40206	1,01639	0,91892	-73,9	-73,9	0,02030	12,64	-38,09278	-1,04085

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spe-miR8032a	ucgaucaaaagucaagaagaucaucaaaaa uccaaauucugaugauuccaucaguuccggaag ggucauuuuaggcuaguagcauugucgacaug acucccgaguuuuacugugaguuuguguga uuaggcguuuuuacuuuuaaguuuaagcuaacu uugacuuuagucaacauucugaguaaacgcgc ucggauagagaauccgucagcgcugcugcucc ggaaugucgaguuuggucuaguuugacccuuc uuucauguucugagguuuuugauuu	283	22,61484	25,08834	18,37456	33,92226	40,98940	59,01060	1,35211	1,23077	-89	-80,4	0,00018	50,88	-31,44876	-0,76724
spe-miR8036	gggagggaucgaaagguauaaggaauuauau auuuuuucgauuugauugggaaaaaagaa uugucuuccgaugccucca	86	23,25581	32,55814	11,62791	32,55814	34,88372	65,11628	1,00000	2,00000	-28	-25,9	0,06799	15,77	-32,55814	-0,93333
spe-miR8038a	uuuuuucaagucaaaacaguuuucuccuugug aguaauggaucucaugcucguuaaacaca agauauguagaaugcguccuaacaugagauuc aguuuacucacaaaggaaaaauuuuuugcuu gagaagca	136	18,38235	31,61765	16,91176	33,08824	35,29412	64,70588	1,04651	1,08696	-58,3	-58,3	0,11703	9,15	-42,86765	-1,21458
spe-miR8039	uagaacuaucagaaguuaacguuuuuccuaucug aacuaucaccacguucagguaaggaaggaa acaaugacagauugaguuguguuuuauacau ggauaggugauaguucagguaaagaaaagggaac aacugauaguugga	142	24,64789	33,80282	12,67606	28,87324	37,32394	62,67606	0,85417	1,94444	-56,8	-53,1	0,06216	9,51	-40,00000	-1,07170
spe-miR8042	uaccuauuaguauuuuuaaccaccagauaag cacuuccaucuauuuuuaaaagguggucaag ggaacgagguggugaacacauugacuuugac acaacuucagaaaauuagacugaaaugcugau cugguuucuuauuacauuuuacauaguuu	158	17,72152	34,17722	17,08861	31,01266	34,81013	65,18987	0,90741	1,03704	-52,2	-52,2	0,05278	13,07	-33,03797	-0,94909
spe-miR8045	auuuuuccuaacugaacuaauaaucauuauca aaauuuguuucuuuuuuuaccugaucuacu cugcuggggcgacacugacacugagagacuaa agcuaggggagcuaauggggaucuuuacauu uuaucaauuauacauacagcugucaguuuuuc uuuuuacugaugaaaucaucacuguucau uuaggauaaggaaaauuagauuugaggugugu uucgauaaacauuuugauaaauuuuaccuggg aaacua	262	17,17557	29,77099	16,79389	36,25954	33,96947	66,03053	1,21795	1,02273	-67,4	-52,8	0,00008	47,26	-25,72519	-0,75730

spe-miR8047	cauauuuacaccagguagucauuuuugugccc uuguaucaacaauuuugaccauuuuuucgaaau uagaccuagguucgaaauaccgaaauuugaacu uugaaaauacagaccagguaggccacuucgaac uucagauacacugggcuauuuuugaaaaagugg ucaacuucuaaaucacaaagccacaaugaggu uuuuuguguaaaucag	208	17,30769	31,73077	19,23077	31,73077	36,53846	63,46154	1,00000	0,90000	-69,3	-62,1	0,00101	23,38	-33,31731	-0,91184
spe-miR8051	aaccaggucauauauaaauacacacaaacaga uauauaaauaguuuuuucuaauuuuaguuucuc caauugcaauaggccuucacaaauaguuuaua uuucacauuauaaaaaaauuugggugggagg gagaauuagagggggguuagauuacaguuuu gggaauugaauccucaccaacaagguaggagu ucaauugggcuaccgacuaagcauuuuuuuu cccuucuaauuucacaucaaaacuuugguaac uagaauucggcgaaauucuaauagauagauagu augguagaaaagauuacucacugaguuuuu uuuugaccaugua	334	19,16168	34,43114	15,26946	31,13772	34,43114	65,56886	0,90435	1,25490	-83,3	-58,45	0,00003	85,19	-24,94012	-0,72435
spe-miR8175-1	aaucagaaaauuuuacuaaacuaauagugau aaguuaaguuauuacuaaaagcuauagucccc ggcaacggcgccaaaauuuuacgcucacaaac uuacuucucacaaauaagaaguuuagcgugcgug ucaaguaaaauacccaacuagaaagguuuggga ucguucccacgaggaaaaauagucuaagacuua cuucaacuuguuuuuacuuuuuugguuuau gacuuccuuggaa	237	16,87764	35,86498	18,14346	29,11392	35,02110	64,97890	0,81176	0,93023	-69,3	-67	0,00042	27,82	-29,24051	-0,83494
spe-miR8175-2	nnnagaccgcuuuacuucuuuuuugagaagu aaguuuugagcguaucacaaauuuuaguuaguggu acguauucccgccugucacgcgggugacccggg uuggaucccgccgcaacggcgccaaaaauuugau auacucaaaucuuucuaaaauaagaaguaa ugcgguucguuc	173	21,96532	24,85549	21,96532	29,47977	43,93064	54,33526	1,18605	1,00000	-93,7	-91,6	0,13394	20,41	-54,16185	-1,23289
spe-miR827	guuuuguagugguacuaauuacaucauacau uuggcauaguuuauugcaaccauuauauaguca ugauuagagaacacuaacacaaaca	88	14,77273	32,95455	15,90909	36,36364	30,68182	69,31818	1,10345	0,92857	-33,5	-33,5	0,10637	10,78	-38,06818	-1,24074
spe-miR828a	auuuacauucacuuuuuugggaaagccucuug cucaaaugaguuuuccaacaauugucuaauu acauacuuuuuagagauacuaauuuggguagaa guuuuaccaggaagguuguacuu	119	17,64706	29,41176	16,80672	36,13445	34,45378	65,54622	1,22857	1,05000	-48,2	-48,2	0,09018	5,37	-40,50420	-1,17561

spe-miR9469	ccaaagcuaacucaugaggagagguuuugucca aguccauuaaggagaccaaaauccuuagau guccacacgcgguaagguagggaauucggu cuucuuaauaggacuagacaaccuauccuca ugagcuagcuuug	141	22,69504	29,07801	21,27660	26,95035	43,97163	56,02837	0,92683	1,06667	-85,1	-85,1	0,19186	4,69	-60,35461	-1,37258
spe-miR9471b	uugagauucaguugauuuucugaggugcucacu cagcuauuaguuuuuuuaagaacucgaua auuuuggcagcaaggagaauuggugacuucag gaugauaacuaauuggcugagugagcaucacug aaaucgacaugauucugag	147	24,48980	29,93197	14,28571	31,29252	38,77551	61,22449	1,04545	1,71429	-64,5	-64,4	0,05632	9,57	-43,87755	-1,13158
spe-miR9473-1	aaaacaauauuggcuguaaaucugaacucguu uuacuccacuagucucuucuaaguuuuuagau cauuacauagagacuaguggugugaacgagau uuagguuggugugaacgaguu	118	21,18644	29,66102	15,25424	33,89831	36,44068	63,55932	1,14286	1,38889	-42,5	-41,6	0,04516	9,82	-36,01695	-0,98837
spe-miR9473-2	cgaaaaaugugagugaacuagcagauuuuggc uguuaaaccuaaacucguuuucacaccaacuaaa cucguuuacaccacuagucacuauguaauuguc auuuacuagaagaagagacuaguggaguuuuu cgaguucagauuuacagccaauuuuuuuugc uugcacgcauuuuuggu	178	19,10112	32,02247	19,66292	29,21348	38,76404	61,23596	0,91228	0,97143	-56,8	-47,8	0,00379	33,80	-31,91011	-0,82319
spe-miR9476-1	ccuguccaaaaacugcuauuuggcuaguccugca ucucuuuuuuauuuuuuuucguuaucaaaaaa uauaaaaaaaaaagcaggacuagaccaauagc aggauuggauug	108	15,74074	33,33333	17,59259	33,33333	33,33333	66,66667	1,00000	0,89474	-58,4	-58,4	0,42957	1,75	-54,07407	-1,62222
spe-miR9476-2	agccaauccaucucguauuuggcuaguccugc auuuuuuuuuauuuuuuuuaguuuacgaaaaaa auauaaaaagagauagcaggacuagaccaauag caguuuuggacag	110	17,27273	33,63636	16,36364	32,72727	33,63636	66,36364	0,97297	1,05556	-64,8	-64,8	0,64210	1,56	-58,90909	-1,75135
spe-miR9477	uauucugaacuaucacuaaacguuuuucgacac acacaccucaacuauucaguuuuucuuuuuccu accugaaugauggugauauuccagguuugggaa agggaacaacugauaguugagguauuuucga uaaacuuuuggugauaguucagnaa	154	19,48052	29,87013	18,18182	31,81818	37,66234	61,68831	1,06522	1,07143	-92,3	-86,7	0,07699	9,40	-59,93506	-1,59138

Tabela S11 – Caracterização dos genes alvos dos miRNAs identificados em *S. lycopersicum* usando psRNAtarget.

miRNA maduro	Gene alvo	Exp	UPE	Início do miRNA	Fim do miRNA	Início do alvo	Fim do alvo	Fragmento do miRNA alinhado	Fragmento do alvo alinhado	Inibição por/da
sly-miR1128-5p	Solyc08g082560.2.1	2.5	14.666	1	21	288	308	UACUACUCCUCCGUCCCAA	UUUUGAACGGAGGGAGUAGUG	Clivagem
sly-miR1128-5p	Solyc09g074860.2.1	3.0	13.272	1	20	54	73	UACUACUCCUCCGUCCCAA	AUGAGACGGAGGGAGUAGUC	Clivagem
sly-miR1128-5p	Solyc07g018140.2.1	3.0	21.029	1	20	1343	1362	UACUACUCCUCCGUCCCAA	GUGGGGGGGAGGGGUAGUA	Clivagem
sly-miR1128-5p	Solyc06g005590.2.1	3.0	19.977	1	20	1026	1045	UACUACUCCUCCGUCCCAA	UUCCGAUGGAGGGAGUAGUG	Clivagem
sly-miR1446.1-5p	Solyc03g110950.1.1	2.5	19.298	1	22	789	810	UGAACUCUCUCCCUCAAUGGCU	AGCCUUUGAGGGAGAGAUUUC	Clivagem
sly-miR1446.1-5p	Solyc08g007560.1.1	2.5	14.812	1	22	289	310	UGAACUCUCUCCCUCAAUGGCU	AGCCAUAGAGAGGGAGAGUUCA	Clivagem
sly-miR1446.1-5p	Solyc09g008200.2.1	2.0	19.672	1	20	1284	1303	UGAACUCUCUCCCUCAAUGG	AUGUUGAGGGAGAGAGUUCA	Clivagem
sly-miR1446.1-5p	Solyc10g085880.1.1	3.0	21.223	1	22	945	966	UGAACUCUCUCCCUCAAUGGCU	GGCUAUGGAGGAAGAGGGUUCA	Tradução
sly-miR1446.1-5p	Solyc10g044910.1.1	2.5	19.387	1	20	7	26	UGAACUCUCUCCCUCAAUGG	CCAUUAGUGGAGAGAGUUCA	Clivagem
sly-miR1446.1-5p	Solyc04g051080.1.1	3.0	15.32	1	20	1007	1026	UGAACUCUCUCCCUCAAUGG	CUUUUGGAGGAGAGAGUUCA	Clivagem
sly-miR1446.1-5p	Solyc05g021430.1.1	3.0	15.919	1	20	248	267	UGAACUCUCUCCCUCAAUGG	CUAUUGAAGUGGAGAGUUCA	Tradução
sly-miR1446.2-5p	Solyc03g110950.1.1	2.5	19.298	1	22	789	810	UGAACUCUCUCCCUCAAUGGCU	AGCCUUUGAGGGAGAGAUUUC	Clivagem
sly-miR1446.2-5p	Solyc08g007560.1.1	2.5	14.812	1	22	289	310	UGAACUCUCUCCCUCAAUGGCU	AGCCAUAGAGAGGGAGAGUUCA	Clivagem
sly-miR1446.2-5p	Solyc09g008200.2.1	2.0	19.672	1	20	1284	1303	UGAACUCUCUCCCUCAAUGG	AUGUUGAGGGAGAGAGUUCA	Clivagem
sly-miR1446.2-5p	Solyc10g085880.1.1	3.0	21.223	1	22	945	966	UGAACUCUCUCCCUCAAUGGCU	GGCUAUGGAGGAAGAGGGUUCA	Tradução
sly-miR1446.2-5p	Solyc10g044910.1.1	2.5	19.387	1	20	7	26	UGAACUCUCUCCCUCAAUGG	CCAUUAGUGGAGAGAGUUCA	Clivagem
sly-miR1446.2-5p	Solyc04g051080.1.1	3.0	15.32	1	20	1007	1026	UGAACUCUCUCCCUCAAUGG	CUUUUGGAGGAGAGAGUUCA	Clivagem
sly-miR1446.2-5p	Solyc05g021430.1.1	3.0	15.919	1	20	248	267	UGAACUCUCUCCCUCAAUGG	CUAUUGAAGUGGAGAGUUCA	Tradução
sly-miR156a.1-3p	Solyc09g019970.2.1	3.0	15.65	1	22	2587	2608	GCUCACUUCUCAUUCUGUCAGA	UAUGGUGGGGAUGGGAAGUGGGC	Clivagem
sly-miR156a.1-3p	Solyc08g023280.2.1	3.0	21.025	1	21	76	96	GCUCACUUCUCAUUCUGUCAG	UUGAAAGAAUGGGAAGAGAGC	Clivagem
sly-miR156a.1-3p	Solyc02g021080.1.1	3.0	17.916	1	21	115	135	GCUCACUUCUCAUUCUGUCAG	UUGACAGAUUGUGAAGUGAGG	Tradução
sly-miR156a.1-3p	Solyc00g009080.2.1	2.5	18.011	1	20	466	485	GCUCACUUCUCAUUCUGUCA	UGAAUGAAUGAGAGGUGAGC	Clivagem
sly-miR156a.1-3p	Solyc03g005030.2.1	3.0	18.868	1	20	479	498	GCUCACUUCUCAUUCUGUCA	UGAAAGCUUGAGAAGUGAGC	Clivagem
sly-miR156a.1-5p	Solyc12g038520.1.1	1.0	11.598	1	21	970	990	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156a.1-5p	Solyc05g012040.2.1	1.0	10.664	1	21	1418	1438	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156a.1-5p	Solyc07g062980.2.1	1.5	19.368	1	20	438	457	UGACAGAAGAGAGUGAGCAC	AUGCUUACUCUCUUCUGUCA	Clivagem
sly-miR156a.1-5p	Solyc10g078700.1.1	1.0	20.437	1	20	764	783	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156a.1-5p	Solyc05g015840.2.1	1.0	17.277	1	20	749	768	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156a.1-5p	Solyc04g045560.2.1	1.0	17.481	1	20	788	807	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156a.1-5p	Solyc05g015510.2.1	1.0	17.999	1	20	2951	2970	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156a.1-5p	Solyc03g114850.2.1	2.0	13.34	1	20	1471	1490	UGACAGAAGAGAGUGAGCAC	AUGCUCUCUCUCUUCUGUCA	Clivagem

sly-miR156a.1-5p	Solyc09g055250.2.1	3.0	7.793	1	21	350	370	UGACAGAAGAGAGUGAGCACA	UUUGCUCACUUUCAUUUGUCA	Clivagem
sly-miR156a.1-5p	Solyc07g005640.2.1	3.0	18.603	1	20	364	383	UGACAGAAGAGAGUGAGCAC	UUCUUCACUUUCUUCUGUCA	Clivagem
sly-miR156a.1-5p	Solyc03g097670.2.1	3.0	10.817	1	20	3379	3398	UGACAGAAGAGAGUGAGCAC	GUGCUCAUUCCCUUCUCUCA	Tradução
sly-miR156a.1-5p	Solyc09g097880.2.1	3.0	17.929	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUCUUCUGUUA	Clivagem
sly-miR156a.1-5p	Solyc02g077920.2.1	3.0	18.879	1	20	829	848	UGACAGAAGAGAGUGAGCAC	AUGCUCUCUAUCUUCUGUCA	Tradução
sly-miR156a.2	Solyc12g038520.1.1	1.0	11.598	1	21	970	990	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156a.2	Solyc05g012040.2.1	1.0	10.664	1	21	1418	1438	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156a.2	Solyc07g062980.2.1	1.5	19.368	1	20	438	457	UGACAGAAGAGAGUGAGCAC	AUGCUUACUCUCUUCUGUCA	Clivagem
sly-miR156a.2	Solyc10g078700.1.1	1.0	20.437	1	20	764	783	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156a.2	Solyc05g015840.2.1	1.0	17.277	1	20	749	768	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156a.2	Solyc04g045560.2.1	1.0	17.481	1	20	788	807	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156a.2	Solyc05g015510.2.1	1.0	17.999	1	20	2951	2970	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156a.2	Solyc03g114850.2.1	2.0	13.34	1	20	1471	1490	UGACAGAAGAGAGUGAGCAC	AUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156a.2	Solyc09g055250.2.1	3.0	7.793	1	21	350	370	UGACAGAAGAGAGUGAGCACA	UUUGCUCACUUUCAUUUGUCA	Clivagem
sly-miR156a.2	Solyc07g005640.2.1	3.0	18.603	1	20	364	383	UGACAGAAGAGAGUGAGCAC	UUCUUCACUUUCUUCUGUCA	Clivagem
sly-miR156a.2	Solyc03g097670.2.1	3.0	10.817	1	20	3379	3398	UGACAGAAGAGAGUGAGCAC	GUGCUCAUUCCCUUCUCUCA	Tradução
sly-miR156a.2	Solyc09g097880.2.1	3.0	17.929	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUCUUCUGUUA	Clivagem
sly-miR156a.2	Solyc02g077920.2.1	3.0	18.879	1	20	829	848	UGACAGAAGAGAGUGAGCAC	AUGCUCUCUAUCUUCUGUCA	Tradução
sly-miR156c-3p	Solyc02g087900.2.1	3.0	7.904	1	20	20	39	UGCUUACUCUCUAUCUGUCA	UGACAGAUAGGAAGAAAGCA	Tradução
sly-miR156c-3p	Solyc01g108270.2.1	3.0	13.679	1	20	1941	1960	UGCUUACUCUCUAUCUGUCA	UUACAGCUACAGAGUAAGCA	Tradução
sly-miR156c-5p	Solyc12g038520.1.1	1.5	11.598	1	21	970	990	UGAUAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156c-5p	Solyc05g012040.2.1	1.5	10.664	1	21	1418	1438	UGAUAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156c-5p	Solyc07g062980.2.1	2.0	19.368	1	20	438	457	UGAUAGAAGAGAGUGAGCAC	AUGCUUACUCUCUUCUGUCA	Clivagem
sly-miR156c-5p	Solyc10g078700.1.1	1.5	20.437	1	20	764	783	UGAUAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156c-5p	Solyc05g015840.2.1	1.5	17.277	1	20	749	768	UGAUAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156c-5p	Solyc04g045560.2.1	1.5	17.481	1	20	788	807	UGAUAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156c-5p	Solyc05g015510.2.1	1.5	17.999	1	20	2951	2970	UGAUAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156c-5p	Solyc10g005450.1.1	2.0	15.164	1	20	163	182	UGAUAGAAGAGAGUGAGCAC	GUGCUCUACUCUCUUUAUCA	Clivagem
sly-miR156c-5p	Solyc01g105270.2.1	2.0	17.728	1	20	933	952	UGAUAGAAGAGAGUGAGCAC	GUUCUCAUUCUCUUCUAUUA	Clivagem
sly-miR156c-5p	Solyc03g114850.2.1	2.5	13.34	1	20	1471	1490	UGAUAGAAGAGAGUGAGCAC	AUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156c-5p	Solyc05g013340.2.1	3.0	12.225	1	20	1640	1659	UGAUAGAAGAGAGUGAGCAC	GUGUUCAUUUUCUUGUAUCA	Clivagem
sly-miR156c-5p	Solyc01g097760.2.1	3.0	8.345	1	20	1107	1126	UGAUAGAAGAGAGUGAGCAC	GUGCUCUACUCUUGUUUAUUA	Clivagem
sly-miR156c-5p	Solyc03g097670.2.1	3.0	10.817	1	20	3379	3398	UGAUAGAAGAGAGUGAGCAC	GUGCUCAUUCCCUUCUCUCA	Tradução
sly-miR156f-3p	Solyc05g012040.2.1	1.0	10.604	1	22	1418	1439	UUGACAGAAGAGAGAGAGUACA	UGUGCUCUCUCUCUUCUGUCAG	Clivagem
sly-miR156f-3p	Solyc05g015510.2.1	0.5	19.373	1	21	2951	2971	UUGACAGAAGAGAGAGAGUAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem

sly-miR156f-3p	Solyc04g045560.2.1	0.5	15.732	1	21	788	808	UUGACAGAAGAGAGAGAGUAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
sly-miR156f-3p	Solyc12g038520.1.1	1.5	10.968	1	22	970	991	UUGACAGAAGAGAGAGAGUACA	UGUGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR156f-3p	Solyc10g078700.1.1	0.5	18.612	1	21	764	784	UUGACAGAAGAGAGAGAGUAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
sly-miR156f-3p	Solyc05g015840.2.1	1.5	17.455	1	21	749	769	UUGACAGAAGAGAGAGAGUAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR156f-3p	Solyc03g114850.2.1	1.5	13.244	1	20	1472	1491	UUGACAGAAGAGAGAGAGUA	UGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR156f-3p	Solyc03g117540.2.1	2.5	13.429	1	22	2892	2913	UUGACAGAAGAGAGAGAGUACA	UAUACUCUCUCUCUUCUGUCUG	Clivagem
sly-miR156f-3p	Solyc02g077920.2.1	1.5	18.646	1	20	830	849	UUGACAGAAGAGAGAGAGUA	UGCUCUCUAUCUUCUGUCAA	Clivagem
sly-miR156f-3p	Solyc02g071220.2.1	2.5	5.481	1	20	23	42	UUGACAGAAGAGAGAGAGUA	CUCUCUUUCUCUUCUGUCAA	Clivagem
sly-miR156f-3p	Solyc08g062040.1.1	2.5	5.067	1	22	9	30	UUGACAGAAGAGAGAGAGUACA	UAUUAUCUCUCUCAUUCUGUCAG	Tradução
sly-miR156f-3p	Solyc03g006010.2.1	3.0	5.731	1	20	41	60	UUGACAGAAGAGAGAGAGUA	UGUUCUUUCUCUUCUUUCAA	Clivagem
sly-miR156f-3p	Solyc07g062980.2.1	2.5	18.585	1	20	439	458	UUGACAGAAGAGAGAGAGUA	UGCUCUACUCUCUUCUGUCAG	Clivagem
sly-miR156f-3p	Solyc02g070280.2.1	3.0	22.233	1	20	381	400	UUGACAGAAGAGAGAGAGUA	UGCUCUCUGUCUUCUGUUAC	Clivagem
sly-miR156f-3p	Solyc04g017750.2.1	3.0	24.169	1	22	1692	1714	UUGACAG-AAGAGAGAGAGUACA	UGGAUUUUCUCUCUUCUGUCAA	Clivagem
sly-miR156f-3p	Solyc02g093290.2.1	3.0	11.593	1	20	231	250	UUGACAGAAGAGAGAGAGUA	UAUUCUCUCUGUUCUGUAAA	Tradução
sly-miR156f-3p	Solyc03g098020.2.1	3.0	0.943	1	20	26	45	UUGACAGAAGAGAGAGAGUA	UUUUCUCUCUCUUCUCUCAA	Clivagem
sly-miR156f-3p	Solyc02g089150.2.1	3.0	19.528	1	20	26	45	UUGACAGAAGAGAGAGAGUA	UAUGCUUUUUUCUUCUGUCAG	Clivagem
sly-miR156f-3p	Solyc05g013760.2.1	3.0	8.683	1	22	1155	1176	UUGACAGAAGAGAGAGAGUACA	UCUAUCUUCUAUCUUCUGUCAA	Clivagem
sly-miR156f-3p	Solyc12g008410.1.1	3.0	12.744	1	20	349	368	UUGACAGAAGAGAGAGAGUA	UCCUCUUGUUCUUCUGUCAA	Clivagem
sly-miR156f-3p	Solyc08g041980.2.1	3.0	11.715	1	20	882	901	UUGACAGAAGAGAGAGAGUA	UCCUUUGUCUCUUCUGUUAA	Clivagem
sly-miR156f-3p	Solyc07g005640.2.1	3.0	17.479	1	20	365	384	UUGACAGAAGAGAGAGAGUA	UCUUCACUUUCUUCUGUCAA	Clivagem
sly-miR156i.1-3p	Solyc04g079120.2.1	2.5	17.635	1	22	1593	1614	GCUCACUGCUCUAUCUUUCAUC	GAUGGAAGAUACAGUAGUGAGU	Tradução
sly-miR156i.1-3p	Solyc04g064750.1.1	3.0	18.683	1	21	2812	2832	GCUCACUGCUCUAUCUUUCAU	AUGAAAGAGAGAGGAGUGAGG	Clivagem
sly-miR156i.1-3p	Solyc01g101130.2.1	3.0	13.647	1	20	630	649	GCUCACUGCUCUAUCUUUCA	UGAAAGAUGAAGUAGUGAGA	Tradução
sly-miR156i.1-3p	Solyc09g092090.2.1	3.0	5.857	1	21	589	609	GCUCACUGCUCUAUCUUUCAU	GUGGAAGAAGAAGCAGUGAGC	Tradução
sly-miR156i.1-3p	Solyc03g033600.2.1	3.0	17.374	1	22	154	175	GCUCACUGCUCUAUCUUUCAUC	GUUGAAAUGAAGAGCGUGAGC	Clivagem
sly-miR156i.1-3p	Solyc03g005030.2.1	3.0	18.868	1	21	478	498	GCUCACUGCUCUAUCUUUCAU	GUGAAAGCUUGAGAAGUGAGC	Clivagem
sly-miR156i.1-5p	Solyc01g099500.1.1	2.5	13.145	1	20	695	714	UGACAGAAGAGCGUGAGCAC	GUGCUUGUGCUUUUCUGUUA	Clivagem
sly-miR156i.1-5p	Solyc11g040340.1.1	2.5	21.723	1	20	812	831	UGACAGAAGAGCGUGAGCAC	GUGCUCAUGUUCUUAUGUCA	Clivagem
sly-miR156i.1-5p	Solyc07g062980.2.1	2.5	19.368	1	20	438	457	UGACAGAAGAGCGUGAGCAC	AUGCUUACUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc10g078700.1.1	2.0	20.437	1	20	764	783	UGACAGAAGAGCGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc05g015840.2.1	2.0	17.277	1	20	749	768	UGACAGAAGAGCGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc12g038520.1.1	2.0	11.598	1	20	971	990	UGACAGAAGAGCGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc04g045560.2.1	2.0	17.481	1	20	788	807	UGACAGAAGAGCGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc05g012040.2.1	2.0	10.664	1	20	1419	1438	UGACAGAAGAGCGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc05g015510.2.1	2.0	17.999	1	20	2951	2970	UGACAGAAGAGCGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem

sly-miR156i.1-5p	Solyc03g025590.2.1	3.0	18.342	1	20	452	471	UGACAGAAGAGCGUGAGCAC	AUGCUGAAGCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc03g025620.2.1	3.0	16.126	1	20	452	471	UGACAGAAGAGCGUGAGCAC	AUGCUGAAGCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc03g114850.2.1	3.0	13.34	1	20	1471	1490	UGACAGAAGAGCGUGAGCAC	AUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.2-3p	Solyc06g008960.2.1	2.5	13.713	1	23	4094	4116	UGCUCACUUCUCUAUCUGUCAUC	GAGGACAGAUUAUGAAGUUAGCA	Clivagem
sly-miR156i.2-3p	Solyc04g072800.2.1	3.0	19.819	1	23	439	461	UGCUCACUUCUCUAUCUGUCAUC	GCUGAUAAAUAUGGAAGUGAGCA	Clivagem
sly-miR156i.2-3p	Solyc06g071140.2.1	3.0	8.469	1	23	244	266	UGCUCACUUCUCUAUCUGUCAUC	GAAGAAGGUUAGAGAAGUGGGCA	Clivagem
sly-miR156i.2-3p	Solyc01g068210.2.1	3.0	6.251	1	22	308	329	UGCUCACUUCUCUAUCUGUCAU	AAGAUGGAGAGAGGAGUGGGCA	Clivagem
sly-miR156i.2-5p	Solyc07g062980.2.1	2.0	19.368	1	20	438	457	UGACAGAAGAGAGUGGGCAC	AUGCUUACUCUCUUCUGUCA	Clivagem
sly-miR156i.2-5p	Solyc10g078700.1.1	1.5	20.437	1	20	764	783	UGACAGAAGAGAGUGGGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.2-5p	Solyc05g015840.2.1	1.5	17.277	1	20	749	768	UGACAGAAGAGAGUGGGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.2-5p	Solyc12g038520.1.1	1.5	11.598	1	20	971	990	UGACAGAAGAGAGUGGGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.2-5p	Solyc04g045560.2.1	1.5	17.481	1	20	788	807	UGACAGAAGAGAGUGGGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.2-5p	Solyc05g012040.2.1	1.5	10.664	1	20	1419	1438	UGACAGAAGAGAGUGGGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.2-5p	Solyc05g015510.2.1	1.5	17.999	1	20	2951	2970	UGACAGAAGAGAGUGGGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.2-5p	Solyc03g114850.2.1	2.5	13.34	1	20	1471	1490	UGACAGAAGAGAGUGGGCAC	AUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.1-3p	Solyc05g054370.2.1	2.5	17.384	1	21	600	620	GCUCACUGCUCUAUCUGUCAC	GAGACAGGUAGAGCGGUGGGC	Clivagem
sly-miR156i.1-5p	Solyc07g062980.2.1	1.5	19.368	1	20	438	457	UGACAGAAGAGAGUGAGCAC	AUGCUUACUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc10g078700.1.1	1.0	20.437	1	20	764	783	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc05g015840.2.1	1.0	17.277	1	20	749	768	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc12g038520.1.1	1.0	11.598	1	20	971	990	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc04g045560.2.1	1.0	17.481	1	20	788	807	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc05g012040.2.1	1.0	10.664	1	20	1419	1438	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc05g015510.2.1	1.0	17.999	1	20	2951	2970	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc03g114850.2.1	2.0	13.34	1	20	1471	1490	UGACAGAAGAGAGUGAGCAC	AUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc07g005640.2.1	3.0	18.603	1	20	364	383	UGACAGAAGAGAGUGAGCAC	UUCUUCACUUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc09g055250.2.1	3.0	7.793	1	20	351	370	UGACAGAAGAGAGUGAGCAC	UUGCUCACUUCUUCUGUCA	Clivagem
sly-miR156i.1-5p	Solyc03g097670.2.1	3.0	10.817	1	20	3379	3398	UGACAGAAGAGAGUGAGCAC	GUGCUCUUCUUCUUCUCUCA	Tradução
sly-miR156i.1-5p	Solyc09g097880.2.1	3.0	17.929	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUUCUGUUA	Clivagem
sly-miR156i.1-5p	Solyc02g077920.2.1	3.0	18.879	1	20	829	848	UGACAGAAGAGAGUGAGCAC	AUGCUCUCUAUCUUCUGUCA	Tradução
sly-miR156i.2-3p	Solyc05g054370.2.1	2.5	17.384	1	21	600	620	GCUCACUGCUCUAUCUGUCAC	GAGACAGGUAGAGCGGUGGGC	Clivagem
sly-miR156i.2-5p	Solyc07g062980.2.1	1.5	19.368	1	20	438	457	UGACAGAAGAGAGUGAGCAC	AUGCUUACUCUCUUCUGUCA	Clivagem
sly-miR156i.2-5p	Solyc10g078700.1.1	1.0	20.437	1	20	764	783	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.2-5p	Solyc05g015840.2.1	1.0	17.277	1	20	749	768	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.2-5p	Solyc12g038520.1.1	1.0	11.598	1	20	971	990	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156i.2-5p	Solyc04g045560.2.1	1.0	17.481	1	20	788	807	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem

sly-miR156l.2-5p	Solyc05g012040.2.1	1.0	10.664	1	20	1419	1438	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156l.2-5p	Solyc05g015510.2.1	1.0	17.999	1	20	2951	2970	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156l.2-5p	Solyc03g114850.2.1	2.0	13.34	1	20	1471	1490	UGACAGAAGAGAGUGAGCAC	AUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR156l.2-5p	Solyc07g005640.2.1	3.0	18.603	1	20	364	383	UGACAGAAGAGAGUGAGCAC	UUCUUCACUUUCUUCUGUCA	Clivagem
sly-miR156l.2-5p	Solyc09g055250.2.1	3.0	7.793	1	20	351	370	UGACAGAAGAGAGUGAGCAC	UUGCUCACUUUCAUUUGUCA	Clivagem
sly-miR156l.2-5p	Solyc03g097670.2.1	3.0	10.817	1	20	3379	3398	UGACAGAAGAGAGUGAGCAC	GUGCUCAUUCCCUUCUCUCA	Tradução
sly-miR156l.2-5p	Solyc09g097880.2.1	3.0	17.929	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUCUUCUGUUA	Clivagem
sly-miR156l.2-5p	Solyc02g077920.2.1	3.0	18.879	1	20	829	848	UGACAGAAGAGAGUGAGCAC	AUGCUCUCUAUCUUCUGUCA	Tradução
sly-miR157a.1-3p	Solyc01g095320.2.1	3.0	17.196	1	22	609	631	GCUCUUUAUUCUUC-UGUCAUCA	UGAUGACAUGAAGAAUAGGGAGC	Clivagem
sly-miR157a.1-3p	Solyc04g015970.2.1	2.5	17.808	1	20	94	113	GCUCUUUAUUCUUCUGUCAU	CUGACUGAAGAAUAGGGAGC	Clivagem
sly-miR157a.1-3p	Solyc01g109470.2.1	2.5	10.953	1	20	3	22	GCUCUUUAUUCUUCUGUCAU	AUGACAGAAGAAAAAGAAC	Clivagem
sly-miR157a.1-3p	Solyc01g081050.2.1	2.5	14.191	1	20	3773	3792	GCUCUUUAUUCUUCUGUCAU	ACGACAGAAGAAUCAAGAGC	Clivagem
sly-miR157a.1-3p	Solyc01g005820.2.1	3.0	17.153	1	22	151	172	GCUCUUUAUUCUUCUGUCAUCA	UUAUGGCAGAAGAGGAAGGAGU	Clivagem
sly-miR157a.1-3p	Solyc07g047980.1.1	3.0	16.94	1	20	769	788	GCUCUUUAUUCUUCUGUCAU	UUGACUGAAGAAGAAAGAGC	Clivagem
sly-miR157a.1-3p	Solyc03g025460.2.1	3.0	11.289	1	22	1112	1132	GCUCUUUAUUCUUCUGUCAUCA	UCAUGAUAGAA-AAUAAAGAGU	Tradução
sly-miR157a.1-5p	Solyc02g077920.2.1	0.0	18.646	1	20	830	849	UUGACAGAAGAUAGAGAGCA	UGCUCUCUAUCUUCUGUCA	Clivagem
sly-miR157a.1-5p	Solyc10g078700.1.1	1.0	18.612	1	21	764	784	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR157a.1-5p	Solyc04g045560.2.1	1.0	15.732	1	21	788	808	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR157a.1-5p	Solyc05g015510.2.1	1.0	19.373	1	21	2951	2971	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR157a.1-5p	Solyc05g012040.2.1	1.5	10.604	1	21	1419	1439	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAG	Clivagem
sly-miR157a.1-5p	Solyc05g015840.2.1	2.0	17.455	1	21	749	769	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR157a.1-5p	Solyc12g038520.1.1	2.0	10.968	1	21	971	991	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR157a.1-5p	Solyc02g070280.2.1	2.0	22.233	1	20	381	400	UUGACAGAAGAUAGAGAGCA	UGCUCUCUGUCUUCUGUUA	Clivagem
sly-miR157a.1-5p	Solyc11g005660.1.1	2.5	10.329	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUAUUCUUCUGUUA	Clivagem
sly-miR157a.1-5p	Solyc03g114850.2.1	2.0	13.244	1	20	1472	1491	UUGACAGAAGAUAGAGAGCA	UGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR157a.1-5p	Solyc01g106780.2.1	2.5	19.167	1	20	780	799	UUGACAGAAGAUAGAGAGCA	GGCUCUUAUCUUCUGUCA	Clivagem
sly-miR157a.1-5p	Solyc07g062980.2.1	3.0	18.585	1	20	439	458	UUGACAGAAGAUAGAGAGCA	UGCUCUCUCUCUUCUGUCAG	Clivagem
sly-miR157a.2-3p	Solyc01g095320.2.1	2.5	17.196	1	22	609	631	GCUCUCUAUUCUUC-UGUCAUCA	UGAUGACAUGAAGAAUAGGGAGC	Clivagem
sly-miR157a.2-3p	Solyc03g063170.1.1	3.0	6.172	1	21	307	327	GCUCUCUAUUCUUCUGUCAUC	GAUGGCAGAGGAAAAGAGAGA	Clivagem
sly-miR157a.2-3p	Solyc07g047820.1.1	3.0	19.374	1	20	210	229	GCUCUCUAUUCUUCUGUCAU	AUGGCAGACAAAUGGAGAGC	Tradução
sly-miR157a.2-5p	Solyc02g077920.2.1	0.0	18.646	1	20	830	849	UUGACAGAAGAUAGAGAGCA	UGCUCUCUAUCUUCUGUCA	Clivagem
sly-miR157a.2-5p	Solyc10g078700.1.1	1.0	18.612	1	21	764	784	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR157a.2-5p	Solyc04g045560.2.1	1.0	15.732	1	21	788	808	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR157a.2-5p	Solyc05g015510.2.1	1.0	19.373	1	21	2951	2971	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
sly-miR157a.2-5p	Solyc05g012040.2.1	1.5	10.604	1	21	1419	1439	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAG	Clivagem

sly-miR157a.2-5p	Solyc05g015840.2.1	2.0	17.455	1	21	749	769	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR157a.2-5p	Solyc12g038520.1.1	2.0	10.968	1	21	971	991	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR157a.2-5p	Solyc02g070280.2.1	2.0	22.233	1	20	381	400	UUGACAGAAGAUAGAGAGCA	UGCUCUCUGUCUUCUGUUAC	Clivagem
sly-miR157a.2-5p	Solyc11g005660.1.1	2.5	10.329	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUA	Clivagem
sly-miR157a.2-5p	Solyc03g114850.2.1	2.0	13.244	1	20	1472	1491	UUGACAGAAGAUAGAGAGCA	UGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR157a.2-5p	Solyc01g106780.2.1	2.5	19.167	1	20	780	799	UUGACAGAAGAUAGAGAGCA	GGCUCUUCAUCUUCUGUCAA	Clivagem
sly-miR157a.2-5p	Solyc07g062980.2.1	3.0	18.585	1	20	439	458	UUGACAGAAGAUAGAGAGCA	UGC UUACUCUCUUCUGUCAG	Clivagem
sly-miR157a.3-3p	Solyc12g006180.1.1	2.5	20.061	1	21	108	128	GCUCUCUAUGCUUCUGUCAUC	GAUGGUAGAAGCAAAGAGGGC	Clivagem
sly-miR157a.3-3p	Solyc04g008100.1.1	3.0	14.388	1	21	729	749	GCUCUCUAUGCUUCUGUCAUC	GAUGGAAGAAGUAUGGAGAGU	Clivagem
sly-miR157a.3-5p	Solyc02g077920.2.1	0.0	18.646	1	20	830	849	UUGACAGAAGAUAGAGAGCA	UGCUCUCUAUCUUCUGUCAA	Clivagem
sly-miR157a.3-5p	Solyc10g078700.1.1	1.0	18.612	1	21	764	784	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
sly-miR157a.3-5p	Solyc04g045560.2.1	1.0	15.732	1	21	788	808	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
sly-miR157a.3-5p	Solyc05g015510.2.1	1.0	19.373	1	21	2951	2971	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
sly-miR157a.3-5p	Solyc05g012040.2.1	1.5	10.604	1	21	1419	1439	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAG	Clivagem
sly-miR157a.3-5p	Solyc05g015840.2.1	2.0	17.455	1	21	749	769	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR157a.3-5p	Solyc12g038520.1.1	2.0	10.968	1	21	971	991	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR157a.3-5p	Solyc02g070280.2.1	2.0	22.233	1	20	381	400	UUGACAGAAGAUAGAGAGCA	UGCUCUCUGUCUUCUGUUAC	Clivagem
sly-miR157a.3-5p	Solyc11g005660.1.1	2.5	10.329	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUA	Clivagem
sly-miR157a.3-5p	Solyc03g114850.2.1	2.0	13.244	1	20	1472	1491	UUGACAGAAGAUAGAGAGCA	UGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR157a.3-5p	Solyc01g106780.2.1	2.5	19.167	1	20	780	799	UUGACAGAAGAUAGAGAGCA	GGCUCUUCAUCUUCUGUCAA	Clivagem
sly-miR157a.3-5p	Solyc07g062980.2.1	3.0	18.585	1	20	439	458	UUGACAGAAGAUAGAGAGCA	UGC UUACUCUCUUCUGUCAG	Clivagem
sly-miR157a.4-5p	Solyc02g077920.2.1	0.0	18.646	1	20	830	849	UUGACAGAAGAUAGAGAGCA	UGCUCUCUAUCUUCUGUCAA	Clivagem
sly-miR157a.4-5p	Solyc10g078700.1.1	1.0	18.612	1	21	764	784	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
sly-miR157a.4-5p	Solyc04g045560.2.1	1.0	15.732	1	21	788	808	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
sly-miR157a.4-5p	Solyc05g015510.2.1	1.0	19.373	1	21	2951	2971	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
sly-miR157a.4-5p	Solyc05g012040.2.1	1.5	10.604	1	21	1419	1439	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAG	Clivagem
sly-miR157a.4-5p	Solyc05g015840.2.1	2.0	17.455	1	21	749	769	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR157a.4-5p	Solyc12g038520.1.1	2.0	10.968	1	21	971	991	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR157a.4-5p	Solyc02g070280.2.1	2.0	22.233	1	20	381	400	UUGACAGAAGAUAGAGAGCA	UGCUCUCUGUCUUCUGUUAC	Clivagem
sly-miR157a.4-5p	Solyc11g005660.1.1	2.5	10.329	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUA	Clivagem
sly-miR157a.4-5p	Solyc03g114850.2.1	2.0	13.244	1	20	1472	1491	UUGACAGAAGAUAGAGAGCA	UGCUCUCUCUCUUCUGUCAU	Clivagem
sly-miR157a.4-5p	Solyc01g106780.2.1	2.5	19.167	1	20	780	799	UUGACAGAAGAUAGAGAGCA	GGCUCUUCAUCUUCUGUCAA	Clivagem
sly-miR157a.4-5p	Solyc07g062980.2.1	3.0	18.585	1	20	439	458	UUGACAGAAGAUAGAGAGCA	UGC UUACUCUCUUCUGUCAG	Clivagem
sly-miR159a-3p	Solyc01g009070.2.1	2.0	21.371	1	21	956	976	UUUGGAUUGAAGGGAGCUCUA	UGGAGCUCCCUACAUCCAAA	Clivagem
sly-miR159a-3p	Solyc10g019260.1.1	2.0	18.692	1	21	139	159	UUUGGAUUGAAGGGAGCUCUA	UGGAGCUCCAUUCGAUCCAAA	Clivagem

sly-miR159a-3p	Solyc01g090530.1.1	2.0	17.653	1	21	85	105	UUUGGAUUGAAGGGAGCUCUA	UGGAGCUCCAUUCGAUCCAAA	Clivagem
sly-miR159a-3p	Solyc06g073640.2.1	2.5	16.596	1	21	1043	1063	UUUGGAUUGAAGGGAGCUCUA	UCGAGCUCCCUUCACUCCAAA	Clivagem
sly-miR159a-3p	Solyc07g065960.1.1	3.0	20.029	1	21	369	389	UUUGGAUUGAAGGGAGCUCUA	UAGAGCUCUCUACGAUCUGAA	Tradução
sly-miR159a-3p	Solyc12g014120.1.1	3.0	11.99	1	21	461	481	UUUGGAUUGAAGGGAGCUCUA	UGGAGCCCCCUCAAACCAA	Clivagem
sly-miR159a-3p	Solyc11g072060.1.1	3.0	24.27	1	21	1112	1132	UUUGGAUUGAAGGGAGCUCUA	UGGAGCUCCCUUCUUUCCAAA	Clivagem
sly-miR159a-3p	Solyc06g008320.2.1	3.0	16.006	1	21	1518	1538	UUUGGAUUGAAGGGAGCUCUA	UCGAGUUUCUUUCAAUCCGAA	Clivagem
sly-miR159a-3p	Solyc05g012830.1.1	3.0	12.374	1	21	1293	1313	UUUGGAUUGAAGGGAGCUCUA	UGGAGUUCUUUCCAAUCCAAA	Tradução
sly-miR159a-3p	Solyc02g078670.2.1	2.5	24.277	1	20	541	560	UUUGGAUUGAAGGGAGCUCU	AGAGUCCAUAUCAAUCCAAU	Clivagem
sly-miR159a-3p	Solyc02g079010.2.1	2.5	20.949	1	20	384	403	UUUGGAUUGAAGGGAGCUCU	GGAGCUUCAUUCAGUCCAAA	Clivagem
sly-miR159a-3p	Solyc09g082890.1.1	3.0	12.778	1	21	159	179	UUUGGAUUGAAGGGAGCUCUA	UGGAGCUGCCUACAAUCCAAG	Tradução
sly-miR159a-3p	Solyc03g043890.2.1	3.0	13.534	1	21	315	335	UUUGGAUUGAAGGGAGCUCUA	UAAAGUUACCUUUAUCCAAA	Clivagem
sly-miR159a-3p	Solyc06g064590.1.1	3.0	16.497	1	20	68	87	UUUGGAUUGAAGGGAGCUCU	AGAGCUUCUUUGAAUUCAAG	Tradução
sly-miR159a-3p	Solyc07g052640.2.1	2.5	1.656	1	20	383	402	UUUGGAUUGAAGGGAGCUCU	AAAACUCCUCAAUCCAAA	Clivagem
sly-miR159a-3p	Solyc09g013080.2.1	3.0	22.719	1	20	1416	1435	UUUGGAUUGAAGGGAGCUCU	GGAGUCCCAUUGAUCCAAA	Tradução
sly-miR159a-3p	Solyc10g054690.1.1	3.0	11.529	1	20	146	165	UUUGGAUUGAAGGGAGCUCU	AGAGCAACUUUCAAUCUAAA	Clivagem
sly-miR159a-3p	Solyc04g071910.1.1	3.0	12.781	1	20	764	783	UUUGGAUUGAAGGGAGCUCU	AGAGCAACUUUCAAUCUAAA	Clivagem
sly-miR159a-3p	Solyc12g056680.1.1	3.0	11.959	1	20	635	654	UUUGGAUUGAAGGGAGCUCU	AGAGCAACUUUCAAUCUAAA	Clivagem
sly-miR159b-3p	Solyc02g079290.2.1	2.0	9.053	1	20	322	341	AUUGGAAUGAAGGGAGCUCU	AGGGUUCUCUUAUUCUAAU	Clivagem
sly-miR159b-3p	Solyc11g072060.1.1	2.5	24.27	1	21	1112	1132	AUUGGAAUGAAGGGAGCUCUA	UGGAGCUCCCUUCUUUCCAAA	Clivagem
sly-miR159b-3p	Solyc01g009070.2.1	3.0	21.371	1	21	956	976	AUUGGAAUGAAGGGAGCUCUA	UGGAGCUCCCUUCACUCCAAA	Clivagem
sly-miR159b-3p	Solyc06g050550.2.1	3.0	16.018	1	21	751	771	AUUGGAAUGAAGGGAGCUCUA	UAGAGGUUUUUUCAAUCCGAU	Clivagem
sly-miR159b-3p	Solyc06g009550.2.1	3.0	6.453	1	21	2392	2412	AUUGGAAUGAAGGGAGCUCUA	UGUAACUCUCUUAUUCCAAU	Clivagem
sly-miR159b-3p	Solyc06g068340.1.1	3.0	13.861	1	20	639	658	AUUGGAAUGAAGGGAGCUCU	AGAGCUUUCUCCAUAUCCAAA	Tradução
sly-miR159b-3p	Solyc02g078670.2.1	3.0	24.277	1	20	541	560	AUUGGAAUGAAGGGAGCUCU	AGAGUCCAUAUCAAUCCAAU	Clivagem
sly-miR159b-3p	Solyc01g112210.2.1	3.0	16.38	1	20	123	142	AUUGGAAUGAAGGGAGCUCU	AGAGGUCUCUUCUUUCUAAU	Clivagem
sly-miR159b-3p	Solyc10g080170.1.1	3.0	15.502	1	20	279	297	AUUGGAAUGAAGGGAGCUCU	AGAGCUUC-UUCAUUUCAAU	Clivagem
sly-miR159b-5p	Solyc02g092110.2.1	2.0	12.529	1	21	511	531	UUGCAUAUAUCAGGAGCUUCA	UGAAGUUUCUGGUGUAUGCAA	Clivagem
sly-miR159b-5p	Solyc08g079080.2.1	3.0	18.293	1	21	1271	1291	UUGCAUAUAUCAGGAGCUUCA	UGAAGCUGCUGAUUUUUGCAG	Clivagem
sly-miR159b-5p	Solyc01g009190.1.1	2.5	18.376	1	20	411	430	UUGCAUAUAUCAGGAGCUUC	GAAGCUGCAGAUUAUGCAA	Clivagem
sly-miR159b-5p	Solyc11g005090.1.1	3.0	16.897	1	20	559	578	UUGCAUAUAUCAGGAGCUUC	GCAGCAGCUGAUUAUGCAA	Clivagem
sly-miR160a-3p	Solyc05g012080.2.1	3.0	23.337	1	20	370	389	GCGUAUAAGGAGCCAAGCAU	GUGCUUGGCUUCUUGUACAC	Clivagem
sly-miR160a-5p	Solyc09g007810.2.1	0.5	24.765	1	21	1597	1617	UGCCUGGCUCCCUUGUAUGCCA	UGGCAUGCAGGGAGCCAGGCA	Clivagem
sly-miR160a-5p	Solyc11g069500.1.1	0.0	21.851	1	20	1303	1322	UGCCUGGCUCCCUUGUAUGCC	GGCAUACAGGGAGCCAGGCA	Clivagem
sly-miR160a-5p	Solyc10g086130.1.1	1.0	17.637	1	21	1368	1388	UGCCUGGCUCCCUUGUAUGCCA	UGGUUAUGCAGGGAGCCAGGCA	Clivagem
sly-miR160a-5p	Solyc11g013470.1.1	0.5	20.89	1	20	544	563	UGCCUGGCUCCCUUGUAUGCC	GGCAUGCAGGGAGCCAGGCA	Clivagem

sly-miR160g-5p	Solyc09g007810.2.1	1.0	24.765	1	21	1597	1617	UGCCUGGCUCCCUGGAUGCCA	UGGCAUGCAGGGAGCCAGGCA	Clivagem
sly-miR160g-5p	Solyc10g086130.1.1	1.5	17.637	1	21	1368	1388	UGCCUGGCUCCCUGGAUGCCA	UGGUAUGCAGGGAGCCAGGCA	Clivagem
sly-miR160g-5p	Solyc11g013470.1.1	1.0	20.89	1	20	544	563	UGCCUGGCUCCCUGGAUGCC	GGCAUGCAGGGAGCCAGGCA	Clivagem
sly-miR160g-5p	Solyc11g069500.1.1	1.0	21.851	1	20	1303	1322	UGCCUGGCUCCCUGGAUGCC	GGCAUACAGGGAGCCAGGCA	Clivagem
sly-miR160g-5p	Solyc01g091630.2.1	2.5	16.185	1	20	1362	1381	UGCCUGGCUCCCUGGAUGCC	GGCUUCCAGGGAGACAGGCA	Clivagem
sly-miR160h.1-5p	Solyc09g007810.2.1	0.5	24.765	1	21	1597	1617	UGCCUGGCUCCCUGUAUGCCA	UGGCAUGCAGGGAGCCAGGCA	Clivagem
sly-miR160h.1-5p	Solyc11g069500.1.1	0.0	21.851	1	20	1303	1322	UGCCUGGCUCCCUGUAUGCC	GGCAUACAGGGAGCCAGGCA	Clivagem
sly-miR160h.1-5p	Solyc10g086130.1.1	1.0	17.637	1	21	1368	1388	UGCCUGGCUCCCUGUAUGCCA	UGGUAUGCAGGGAGCCAGGCA	Clivagem
sly-miR160h.1-5p	Solyc11g013470.1.1	0.5	20.89	1	20	544	563	UGCCUGGCUCCCUGUAUGCC	GGCAUGCAGGGAGCCAGGCA	Clivagem
sly-miR160h.2-5p	Solyc09g007810.2.1	1.0	24.765	1	21	1597	1617	UGCCUGGCUCUUGUAUGCCA	UGGCAUGCAGGGAGCCAGGCA	Clivagem
sly-miR160h.2-5p	Solyc11g069500.1.1	0.5	21.851	1	20	1303	1322	UGCCUGGCUCUUGUAUGCC	GGCAUACAGGGAGCCAGGCA	Clivagem
sly-miR160h.2-5p	Solyc10g086130.1.1	1.5	17.637	1	21	1368	1388	UGCCUGGCUCUUGUAUGCCA	UGGUAUGCAGGGAGCCAGGCA	Clivagem
sly-miR160h.2-5p	Solyc11g013470.1.1	1.0	20.89	1	20	544	563	UGCCUGGCUCUUGUAUGCC	GGCAUGCAGGGAGCCAGGCA	Clivagem
sly-miR160h.2-5p	Solyc11g068950.1.1	2.5	18.164	1	22	1227	1248	UGCCUGGCUCUUGUAUGCCAU	AGGGCUAACAAGGAGCCAGGUA	Clivagem
sly-miR162.1-3p	Solyc10g005130.2.1	2.0	18.811	1	21	3248	3269	UCGAUAA-ACCUCUGCAUCCAG	CUGGAUGCAGAGGUUUUAUCGA	Clivagem
sly-miR162.1-3p	Solyc04g016510.2.1	2.5	20.06	1	20	620	639	UCGAUAAACCUCUGCAUCCA	UGGAUGCAGAGGUUGAUUGG	Clivagem
sly-miR162.1-3p	Solyc06g009530.2.1	3.0	11.926	1	21	1845	1865	UCGAUAAACCUCUGCAUCCAG	CUGGGAGCAGAGUUUUUAUUGA	Tradução
sly-miR162.1-3p	Solyc01g080500.2.1	3.0	16.71	1	20	1162	1181	UCGAUAAACCUCUGCAUCCA	UGGAUGGAGGGGUUUUAUUGU	Clivagem
sly-miR162.1-5p	Solyc04g079470.2.1	3.0	15.656	1	22	485	506	UGGAGGCAGCGGUUCAUGAUC	GAUCGAUCAAACGCUGCCUUUA	Clivagem
sly-miR162.1-5p	Solyc10g036700.1.1	3.0	9.71	1	20	833	852	UGGAGGCAGCGGUUCAUCGA	UUGAUAAACCUUUGCCUCCA	Tradução
sly-miR162.1-5p	Solyc06g068870.2.1	3.0	10.01	1	20	1892	1911	UGGAGGCAGCGGUUCAUCGA	UCCAUGAACCUUUGCUUCCA	Tradução
sly-miR162.1-5p	Solyc04g078590.2.1	3.0	11.492	1	21	890	910	UGGAGGCAGCGGUUCAUGAU	GUCCAUCCACCGCUGCCUCCA	Clivagem
sly-miR162.1-5p	Solyc07g005810.2.1	3.0	16.689	1	20	1017	1036	UGGAGGCAGCGGUUCAUCGA	UCAAUGAAAAGCUGCCUCCA	Tradução
sly-miR162.2-3p	Solyc10g005130.2.1	2.0	18.811	1	21	3248	3269	UCGAUAA-ACCUCUGCAUCCAG	CUGGAUGCAGAGGUUUUAUCGA	Clivagem
sly-miR162.2-3p	Solyc04g016510.2.1	2.5	20.06	1	20	620	639	UCGAUAAACCUCUGCAUCCA	UGGAUGCAGAGGUUGAUUGG	Clivagem
sly-miR162.2-3p	Solyc06g009530.2.1	3.0	11.926	1	21	1845	1865	UCGAUAAACCUCUGCAUCCAG	CUGGGAGCAGAGUUUUUAUUGA	Tradução
sly-miR162.2-3p	Solyc01g080500.2.1	3.0	16.71	1	20	1162	1181	UCGAUAAACCUCUGCAUCCA	UGGAUGGAGGGGUUUUAUUGU	Clivagem
sly-miR162.2-5p	Solyc04g079470.2.1	3.0	15.656	1	22	485	506	UGGAGGCAGCGGUUCAUGAUC	GAUCGAUCAAACGCUGCCUUUA	Clivagem
sly-miR162.2-5p	Solyc10g036700.1.1	3.0	9.71	1	20	833	852	UGGAGGCAGCGGUUCAUCGA	UUGAUAAACCUUUGCCUCCA	Tradução
sly-miR162.2-5p	Solyc06g068870.2.1	3.0	10.01	1	20	1892	1911	UGGAGGCAGCGGUUCAUCGA	UCCAUGAACCUUUGCUUCCA	Tradução
sly-miR162.2-5p	Solyc04g078590.2.1	3.0	11.492	1	21	890	910	UGGAGGCAGCGGUUCAUGAU	GUCCAUCCACCGCUGCCUCCA	Clivagem
sly-miR162.2-5p	Solyc07g005810.2.1	3.0	16.689	1	20	1017	1036	UGGAGGCAGCGGUUCAUCGA	UCAAUGAAAAGCUGCCUCCA	Tradução
sly-miR164a-3p	Solyc09g082560.2.1	2.0	22.233	1	21	326	346	CAUGUGCCUGUUUUCCCCAUC	GAUGGGGAAAACAGGUAGAUG	Clivagem
sly-miR164a-3p	Solyc09g020180.1.1	3.0	20.551	1	20	410	429	CAUGUGCCUGUUUUCCCCAUC	GUGGGAAGAGCGGGCACAUUG	Clivagem
sly-miR164a-3p	Solyc01g081140.1.1	2.5	13.614	1	20	1606	1625	CAUGUGCCUGUUUUCCCCAUC	AAGGGGAAAACAAGCAUAUG	Clivagem

sly-miR164a-3p	Solyc03g118230.1.1	3.0	11.453	1	20	333	352	CAUGUGCCUGUUUUCCTCAU	AUGGGAGACACAGGCAUAUG	Clivagem
sly-miR164a-3p	Solyc05g011940.2.1	3.0	13.491	1	20	1308	1327	CAUGUGCCUGUUUUCCTCAU	AUGGGGAGAAGAUGUACAUG	Tradução
sly-miR164a-5p	Solyc07g062840.2.1	0.5	14.574	1	20	714	733	UGGAGAAGCAGGGCACGUGC	GCACGUGCCCUGUUUCUCCA	Clivagem
sly-miR164a-5p	Solyc07g066330.2.1	1.0	9.988	1	20	752	771	UGGAGAAGCAGGGCACGUGC	GCAAGUGCCCUGCUUCUCCA	Clivagem
sly-miR164a-5p	Solyc01g090590.2.1	2.0	24.721	1	21	1327	1347	UGGAGAAGCAGGGCACGUGCA	UGCAUGUGCCCAGCUUCUUA	Tradução
sly-miR164a-5p	Solyc06g069710.2.1	2.0	5.692	1	20	624	643	UGGAGAAGCAGGGCACGUGC	CCACGUGCACUGCUUCUCCA	Clivagem
sly-miR164a-5p	Solyc03g115850.2.1	2.0	11.725	1	20	693	712	UGGAGAAGCAGGGCACGUGC	CCACGUGCACUGCUUCUCCA	Clivagem
sly-miR164a-5p	Solyc11g066150.1.1	2.5	14.503	1	20	311	330	UGGAGAAGCAGGGCACGUGC	UCGCAUGCCCUGCUUCUCCA	Clivagem
sly-miR164e-3p	Solyc10g044450.1.1	3.0	21.249	1	20	1352	1371	CACGUGUUCUCCUUCUCCAA	UUGGGGAAGGAAAACCCGUG	Tradução
sly-miR164e-3p	Solyc06g072160.2.1	3.0	11.598	1	20	480	499	CACGUGUUCUCCUUCUCCAA	UUGUAGAAGGGGACCACGUG	Clivagem
sly-miR164e-5p	Solyc07g062840.2.1	0.5	14.574	1	20	714	733	UGGAGAAGCAGGGCACGUGC	GCACGUGCCCUGUUUCUCCA	Clivagem
sly-miR164e-5p	Solyc07g066330.2.1	1.0	9.988	1	20	752	771	UGGAGAAGCAGGGCACGUGC	GCAAGUGCCCUGCUUCUCCA	Clivagem
sly-miR164e-5p	Solyc01g090590.2.1	2.0	24.721	1	21	1327	1347	UGGAGAAGCAGGGCACGUGCA	UGCAUGUGCCCAGCUUCUUA	Tradução
sly-miR164e-5p	Solyc06g069710.2.1	2.0	5.692	1	20	624	643	UGGAGAAGCAGGGCACGUGC	CCACGUGCACUGCUUCUCCA	Clivagem
sly-miR164e-5p	Solyc03g115850.2.1	2.0	11.725	1	20	693	712	UGGAGAAGCAGGGCACGUGC	CCACGUGCACUGCUUCUCCA	Clivagem
sly-miR164e-5p	Solyc11g066150.1.1	2.5	14.503	1	20	311	330	UGGAGAAGCAGGGCACGUGC	UCGCAUGCCCUGCUUCUCCA	Clivagem
sly-miR164f-5p	Solyc07g066330.2.1	1.0	9.988	1	21	751	771	UGGAGAAGCAGGGCACAUUCU	AGCAAGUGCCCUGCUUCUCCA	Clivagem
sly-miR164f-5p	Solyc07g062840.2.1	1.5	14.574	1	21	713	733	UGGAGAAGCAGGGCACAUUCU	AGCACGUGCCCUGUUUCUCCA	Clivagem
sly-miR164f-5p	Solyc01g090590.2.1	1.5	24.721	1	20	1328	1347	UGGAGAAGCAGGGCACAUUCG	GCAUGUGCCCAGCUUCUUA	Tradução
sly-miR164f-5p	Solyc06g069710.2.1	3.0	5.692	1	20	624	643	UGGAGAAGCAGGGCACAUUCG	CCACGUGCACUGCUUCUCCA	Clivagem
sly-miR164f-5p	Solyc03g115850.2.1	3.0	11.725	1	20	693	712	UGGAGAAGCAGGGCACAUUCG	CCACGUGCACUGCUUCUCCA	Clivagem
sly-miR166.1-3p	Solyc12g044410.1.1	1.5	19.251	1	20	549	568	UCGGACCAGGCUUCAUUCUCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.1-3p	Solyc03g120910.2.1	1.5	19.503	1	20	850	869	UCGGACCAGGCUUCAUUCUCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.1-3p	Solyc11g069470.1.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.1-3p	Solyc02g069830.2.1	2.0	19.296	1	20	619	638	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.1-3p	Solyc02g024070.2.1	2.0	21.121	1	20	809	828	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.1-3p	Solyc05g008940.2.1	2.5	19.602	1	20	1007	1026	UCGGACCAGGCUUCAUUCUCC	GAGAAGGAAGCCUGGUUCGA	Clivagem
sly-miR166.2-3p	Solyc12g044410.1.1	1.5	19.251	1	20	549	568	UCGGACCAGGCUUCAUUCUCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.2-3p	Solyc03g120910.2.1	1.5	19.503	1	20	850	869	UCGGACCAGGCUUCAUUCUCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.2-3p	Solyc11g069470.1.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.2-3p	Solyc02g069830.2.1	2.0	19.296	1	20	619	638	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.2-3p	Solyc02g024070.2.1	2.0	21.121	1	20	809	828	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.2-3p	Solyc05g008940.2.1	2.5	19.602	1	20	1007	1026	UCGGACCAGGCUUCAUUCUCC	GAGAAGGAAGCCUGGUUCGA	Clivagem
sly-miR166.3-3p	Solyc12g044410.1.1	1.5	19.251	1	20	549	568	UCGGACCAGGCUUCAUUCUCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.3-3p	Solyc03g120910.2.1	1.5	19.503	1	20	850	869	UCGGACCAGGCUUCAUUCUCC	UGGAAUGAAGCCUGGUCCGG	Clivagem

sly-miR166.3-3p	Solyc11g069470.1.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUUCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.3-3p	Solyc02g069830.2.1	2.0	19.296	1	20	619	638	UCGGACCAGGCUUCAUUCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.3-3p	Solyc02g024070.2.1	2.0	21.121	1	20	809	828	UCGGACCAGGCUUCAUUCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166.3-3p	Solyc05g008940.2.1	2.5	19.602	1	20	1007	1026	UCGGACCAGGCUUCAUUCCC	GAGAAGGAAGCCUGGUUCGA	Clivagem
sly-miR166a.1-3p	Solyc12g044410.1.1	1.5	19.251	1	20	549	568	UCGGACCAGGCUUCAUUCCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.1-3p	Solyc03g120910.2.1	1.5	19.503	1	20	850	869	UCGGACCAGGCUUCAUUCCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.1-3p	Solyc11g069470.1.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUUCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.1-3p	Solyc02g069830.2.1	2.0	19.296	1	20	619	638	UCGGACCAGGCUUCAUUCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.1-3p	Solyc02g024070.2.1	2.0	21.121	1	20	809	828	UCGGACCAGGCUUCAUUCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.1-3p	Solyc05g008940.2.1	2.5	19.602	1	20	1007	1026	UCGGACCAGGCUUCAUUCCC	GAGAAGGAAGCCUGGUUCGA	Clivagem
sly-miR166a.2-3p	Solyc12g044410.1.1	1.5	19.251	1	20	549	568	UCGGACCAGGCUUCAUUCCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.2-3p	Solyc03g120910.2.1	1.5	19.503	1	20	850	869	UCGGACCAGGCUUCAUUCCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.2-3p	Solyc11g069470.1.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUUCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.2-3p	Solyc02g069830.2.1	2.0	19.296	1	20	619	638	UCGGACCAGGCUUCAUUCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.2-3p	Solyc02g024070.2.1	2.0	21.121	1	20	809	828	UCGGACCAGGCUUCAUUCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.2-3p	Solyc05g008940.2.1	2.5	19.602	1	20	1007	1026	UCGGACCAGGCUUCAUUCCC	GAGAAGGAAGCCUGGUUCGA	Clivagem
sly-miR166a.2-5p	Solyc04g009040.2.1	2.0	15.585	1	21	2560	2580	GGAAUGUUGUUUGGCUCGAGG	UCUCAAGCCAAGCAACAUUCU	Clivagem
sly-miR166a.2-5p	Solyc10g083980.1.1	3.0	17.337	1	21	366	386	GGAAUGUUGUUUGGCUCGAGG	CUUCGAGCCAUAUGACAUUCU	Tradução
sly-miR166a.2-5p	Solyc06g076910.1.1	2.5	14.055	1	21	2547	2567	GGAAUGUUGUUUGGCUCGAGG	UCUUAAGCCAAGCAACAUUCU	Clivagem
sly-miR166a.2-5p	Solyc08g006420.2.1	3.0	19.264	1	20	754	773	GGAAUGUUGUUUGGCUCGAG	AGCGAGCCAAACAUAUUC	Clivagem
sly-miR166a.2-5p	Solyc07g065860.2.1	2.5	11.467	1	20	2938	2957	GGAAUGUUGUUUGGCUCGAG	CUCGAUCCAAUAUGACAUUCU	Clivagem
sly-miR166a.2-5p	Solyc04g050170.2.1	3.0	20.985	1	21	2522	2542	GGAAUGUUGUUUGGCUCGAGG	CGUCAAGUCAAAACAACAUUCU	Clivagem
sly-miR166a.2-5p	Solyc09g064440.2.1	3.0	19.976	1	21	822	842	GGAAUGUUGUUUGGCUCGAGG	UCUUGAGCUGAAAGACAUUC	Tradução
sly-miR166a.2-5p	Solyc09g060080.2.1	3.0	18.271	1	21	5506	5526	GGAAUGUUGUUUGGCUCGAGG	UCUCAAGCUGAACACGUUCU	Clivagem
sly-miR166a.2-5p	Solyc01g080410.2.1	3.0	12.049	1	21	34	54	GGAAUGUUGUUUGGCUCGAGG	UUUCGAGCAAAUCAUAUUC	Tradução
sly-miR166a.2-5p	Solyc02g088300.2.1	3.0	12.934	1	21	1422	1442	GGAAUGUUGUUUGGCUCGAGG	UCUUGAGCCCAAAAUAUUC	Tradução
sly-miR166a.2-5p	Solyc12g087920.1.1	3.0	10.888	1	20	378	397	GGAAUGUUGUUUGGCUCGAG	CUCGAAUCAUAUAUUC	Tradução
sly-miR166a.3-3p	Solyc12g044410.1.1	1.5	19.251	1	20	549	568	UCGGACCAGGCUUCAUUCCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.3-3p	Solyc03g120910.2.1	1.5	19.503	1	20	850	869	UCGGACCAGGCUUCAUUCCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.3-3p	Solyc11g069470.1.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUUCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.3-3p	Solyc02g069830.2.1	2.0	19.296	1	20	619	638	UCGGACCAGGCUUCAUUCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.3-3p	Solyc02g024070.2.1	2.0	21.121	1	20	809	828	UCGGACCAGGCUUCAUUCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.3-3p	Solyc05g008940.2.1	2.5	19.602	1	20	1007	1026	UCGGACCAGGCUUCAUUCCC	GAGAAGGAAGCCUGGUUCGA	Clivagem
sly-miR166a.4-3p	Solyc12g044410.1.1	1.5	19.251	1	20	549	568	UCGGACCAGGCUUCAUUCCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.4-3p	Solyc03g120910.2.1	1.5	19.503	1	20	850	869	UCGGACCAGGCUUCAUUCCC	UGGAAUGAAGCCUGGUCCGG	Clivagem

sly-miR166a.4-3p	Solyc11g069470.1.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUCCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.4-3p	Solyc02g069830.2.1	2.0	19.296	1	20	619	638	UCGGACCAGGCUUCAUCCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.4-3p	Solyc02g024070.2.1	2.0	21.121	1	20	809	828	UCGGACCAGGCUUCAUCCCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166a.4-3p	Solyc05g008940.2.1	2.5	19.602	1	20	1007	1026	UCGGACCAGGCUUCAUCCCC	GAGAAGGAAGCCUGGUUCGA	Clivagem
sly-miR166a.4-5p	Solyc10g083980.1.1	3.0	17.337	1	21	366	386	GGAAGUUGUCUGGCUCGAGG	CUUCGAGCCAUUAUGACAUUCU	Tradução
sly-miR166a.4-5p	Solyc04g012110.1.1	3.0	15.073	1	21	1755	1775	GGAAGUUGUCUGGCUCGAGG	CCUAAAGCCAGACAACGUUCU	Clivagem
sly-miR166a.4-5p	Solyc04g009640.2.1	3.0	15.223	1	21	2989	3009	GGAAGUUGUCUGGCUCGAGG	CCUAAAGCCAGCCAACGUUCU	Tradução
sly-miR166a.4-5p	Solyc03g026340.2.1	3.0	17.36	1	21	599	619	GGAAGUUGUCUGGCUCGAGG	UCUUAAGCCAGAGAACAUCU	Tradução
sly-miR166a.4-5p	Solyc07g024070.1.1	3.0	15.698	1	21	1504	1524	GGAAGUUGUCUGGCUCGAGG	UCUCAUUCUGGACAACAUCU	Clivagem
sly-miR166a.4-5p	Solyc04g009040.2.1	3.0	15.585	1	21	2560	2580	GGAAGUUGUCUGGCUCGAGG	UCUCAAGCCAAGCAACAUCU	Tradução
sly-miR166g-3p	Solyc12g044410.1.1	1.5	19.251	1	20	549	568	UCGGACCAGGCUUCAUCCU	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166g-3p	Solyc03g120910.2.1	1.5	19.503	1	20	850	869	UCGGACCAGGCUUCAUCCU	UGGAAUGAAGCCUGGUCCGG	Clivagem
sly-miR166g-3p	Solyc11g069470.1.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUCCU	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166g-3p	Solyc02g069830.2.1	2.0	19.296	1	20	619	638	UCGGACCAGGCUUCAUCCU	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166g-3p	Solyc02g024070.2.1	2.0	21.121	1	20	809	828	UCGGACCAGGCUUCAUCCU	UGGGAUGAAGCCUGGUCCGG	Clivagem
sly-miR166g-3p	Solyc07g045410.1.1	2.5	18.926	1	20	522	541	UCGGACCAGGCUUCAUCCU	AGGUAUCAAGCCUGGUUCGA	Clivagem
sly-miR166g-3p	Solyc03g121640.2.1	3.0	13.824	1	20	663	681	UCGGACCAGGCUUCAUCCU	AGGAAUGAAGCUUGG-CCGA	Clivagem
sly-miR166g-3p	Solyc10g078750.1.1	3.0	19.779	1	20	22	40	UCGGACCAGGCUUCAUCCU	AGGAAUGGAGC-UGGUUCGA	Tradução
sly-miR167a.1-5p	Solyc03g007790.2.1	3.0	21.107	1	22	694	715	UGAAGCUGCCAGCAUGAUCUAA	UUAGAUAAGCUGGAAGCUUUG	Clivagem
sly-miR167a.1-5p	Solyc06g035710.1.1	3.0	18.905	1	21	1061	1081	UGAAGCUGCCAGCAUGAUCUA	UAGGGCUUGCUGGCAGCUUCG	Clivagem
sly-miR167a.1-5p	Solyc06g036780.2.1	3.0	21.536	1	20	898	917	UGAAGCUGCCAGCAUGAUCU	UGAUUCUGCUGGUAGCUUCA	Clivagem
sly-miR167a.1-5p	Solyc04g073990.2.1	3.0	17.218	1	22	1083	1104	UGAAGCUGCCAGCAUGAUCUAA	UGAGAAUAUGCUGGUGGCUUUA	Clivagem
sly-miR167a.1-5p	Solyc04g077220.2.1	3.0	18.991	1	20	300	319	UGAAGCUGCCAGCAUGAUCU	AGAUAUGCUAGUAGUUUUG	Tradução
sly-miR167a.2-3p	Solyc03g111180.2.1	3.0	20.235	1	20	1499	1518	GAUCAUGUGGUUGCUUCACC	UGUGAAGCAUUAUUGAUC	Tradução
sly-miR167a.2-3p	Solyc03g095940.1.1	2.5	19.129	1	20	291	310	GAUCAUGUGGUUGCUUCACC	GGUGGAGCUACAACAUGAUC	Tradução
sly-miR167a.2-3p	Solyc04g082510.2.1	3.0	17.789	1	20	1381	1400	GAUCAUGUGGUUGCUUCACC	UGUAAAGCAAACACAUGAUC	Tradução
sly-miR167a.2-5p	Solyc03g007790.2.1	3.0	21.107	1	22	694	715	UGAAGCUGCCAGCAUGAUCUAA	UUAGAUAAGCUGGAAGCUUUG	Clivagem
sly-miR167a.2-5p	Solyc06g035710.1.1	3.0	18.905	1	21	1061	1081	UGAAGCUGCCAGCAUGAUCUA	UAGGGCUUGCUGGCAGCUUCG	Clivagem
sly-miR167a.2-5p	Solyc06g036780.2.1	3.0	21.536	1	20	898	917	UGAAGCUGCCAGCAUGAUCU	UGAUUCUGCUGGUAGCUUCA	Clivagem
sly-miR167a.2-5p	Solyc04g073990.2.1	3.0	17.218	1	22	1083	1104	UGAAGCUGCCAGCAUGAUCUAA	UGAGAAUAUGCUGGUGGCUUUA	Clivagem
sly-miR167a.2-5p	Solyc04g077220.2.1	3.0	18.991	1	20	300	319	UGAAGCUGCCAGCAUGAUCU	AGAUAUGCUAGUAGUUUUG	Tradução
sly-miR167c-5p	Solyc06g035710.1.1	3.0	18.905	1	21	1061	1081	UGAAGCUGCCAGCAUGAUCUA	UAGGGCUUGCUGGCAGCUUCG	Clivagem
sly-miR167c-5p	Solyc03g007790.2.1	3.0	21.107	1	21	695	715	UGAAGCUGCCAGCAUGAUCUA	UAGAUAAGCUGGAAGCUUUG	Clivagem
sly-miR167c-5p	Solyc06g036780.2.1	3.0	21.536	1	20	898	917	UGAAGCUGCCAGCAUGAUCU	UGAUUCUGCUGGUAGCUUCA	Clivagem
sly-miR167c-5p	Solyc04g077220.2.1	3.0	18.991	1	20	300	319	UGAAGCUGCCAGCAUGAUCU	AGAUAUGCUAGUAGUUUUG	Tradução

sly-miR167c-5p	Solyc04g073990.2.1	3.0	17.218	1	20	1085	1104	UGAAGCUGCCAGCAUGAUCU	AGAAUAUGCUGGUGGCUUUA	Clivagem
sly-miR167h.1-5p	Solyc01g088380.1.1	1.5	21.576	1	20	1503	1522	AGCAGUUGAAGCUGCCAGCA	UGCUGGCAGCUUCAGUUGUU	Clivagem
sly-miR167h.1-5p	Solyc10g055620.1.1	3.0	16.604	1	22	537	558	AGCAGUUGAAGCUGCCAGCAUG	UAUGCUGGUAACCUCAGCUGCU	Tradução
sly-miR167h.1-5p	Solyc04g009700.2.1	3.0	19.507	1	20	353	372	AGCAGUUGAAGCUGCCAGCA	UGUUGGUAGCAUUAGCUGCU	Tradução
sly-miR167h.1-5p	Solyc09g005340.2.1	3.0	15.12	1	24	193	216	AGCAGUUGAAGCUGCCAGCAUGAU	AUGUUGAUGUCAGUUUCAACUGUU	Clivagem
sly-miR167h.1-5p	Solyc09g005330.2.1	3.0	15.12	1	24	2995	3018	AGCAGUUGAAGCUGCCAGCAUGAU	AUGUUGAUGUCAGUUUCAACUGUU	Clivagem
sly-miR167h.1-5p	Solyc10g083790.1.1	3.0	16.232	1	22	1473	1494	AGCAGUUGAAGCUGCCAGCAUG	CUUGUUGGAAGCUACA AUUGCU	Tradução
sly-miR167h.1-5p	Solyc02g021620.2.1	3.0	23.987	1	20	1483	1502	AGCAGUUGAAGCUGCCAGCA	UGUUGACCGCUUCA AUUGCU	Clivagem
sly-miR167h.1-5p	Solyc05g013280.2.1	3.0	14.666	1	20	1306	1325	AGCAGUUGAAGCUGCCAGCA	UGCUUGCAUUUUCA AUUGCU	Clivagem
sly-miR167h.2-3p	Solyc07g005780.1.1	3.0	13.858	1	24	198	221	AUCAUGCUGGCAGCUUCAACUGCU	AGAAGUUGAAGCUGAUACCAUGAU	Tradução
sly-miR167h.2-3p	Solyc07g066610.2.1	3.0	17.241	1	21	1515	1535	AUCAUGCUGGCAGCUUCAACU	AGUUGGAGUGGCUAGCGUGAU	Clivagem
sly-miR167h.3-3p	Solyc07g005780.1.1	3.0	13.858	1	24	198	221	AUCAUGCUGGCAGCUUCAACUGCU	AGAAGUUGAAGCUGAUACCAUGAU	Tradução
sly-miR167h.3-3p	Solyc07g066610.2.1	3.0	17.241	1	21	1515	1535	AUCAUGCUGGCAGCUUCAACU	AGUUGGAGUGGCUAGCGUGAU	Clivagem
sly-miR168-5p	Solyc01g110090.1.1	3.0	19.411	1	21	132	152	AUUCAGUUGAUGCAAGGCGGG	UCCGUUUUGCAUCGACUGUAU	Clivagem
sly-miR168-5p	Solyc10g083610.1.1	3.0	17.646	1	20	627	646	AUUCAGUUGAUGCAAGGCGG	CCGU AUUCCAUC AAUUGAAU	Clivagem
sly-miR168a.1-3p	Solyc05g015840.2.1	3.0	17.066	1	20	614	633	CCUGCCUUGCAUCAACUGAA	UCCAGUUCAUGCAAGGCAGU	Clivagem
sly-miR168a.1-5p	Solyc06g072300.2.1	2.5	23.686	1	20	378	397	UCGCUUGGUGCAGGUCGGGA	UCCCGAGCUGCACCAAGCAA	Clivagem
sly-miR168a.2-3p	Solyc06g076700.1.1	3.0	22.499	1	20	873	892	CCCGCCUUGCAUCAACUGAA	UUCAGUUGAUGCAGGGCGAU	Clivagem
sly-miR168a.2-3p	Solyc03g051780.1.1	3.0	24.881	1	20	333	352	CCCGCCUUGCAUCAACUGAA	UUUAGGUGAUGCUAGGUGGG	Clivagem
sly-miR168a.2-5p	Solyc06g072300.2.1	2.5	23.686	1	20	378	397	UCGCUUGGUGCAGGUCGGGA	UCCCGAGCUGCACCAAGCAA	Clivagem
sly-miR169a.1-5p	Solyc08g062210.2.1	2.5	19.433	1	21	1100	1120	CAGCCAAGGAUGACUUGCCGA	UCGGCAGUUCAUCCUUGGCUA	Clivagem
sly-miR169a.1-5p	Solyc03g121940.2.1	2.5	17.526	1	20	1022	1041	CAGCCAAGGAUGACUUGCCG	UGGGAAGUCAUCCUUGGCUA	Clivagem
sly-miR169a.1-5p	Solyc01g008490.2.1	2.5	23.6	1	20	1058	1077	CAGCCAAGGAUGACUUGCCG	UGGCAAUUCAUCCUUGGCUU	Clivagem
sly-miR169a.1-5p	Solyc08g075730.2.1	3.0	19.44	1	20	584	603	CAGCCAAGGAUGACUUGCCG	CCGCAAGUUAUUAUUGGCUG	Clivagem
sly-miR169a.1-5p	Solyc09g075020.2.1	3.0	13.726	1	20	3006	3025	CAGCCAAGGAUGACUUGCCG	UGGCAAGUGAUUAUUGGCUG	Clivagem
sly-miR169a.2-3p	Solyc09g090150.2.1	2.5	17.58	1	20	576	595	GGCAAGUUGUUCUUGGCUAU	AUGGACAAGAACAACUUGUU	Clivagem
sly-miR169a.2-3p	Solyc09g009970.2.1	2.5	17.179	1	20	706	725	GGCAAGUUGUUCUUGGCUAU	AUGGCCAAGAAGAAUUGUC	Tradução
sly-miR169a.2-3p	Solyc09g091590.2.1	3.0	17.689	1	21	865	885	GGCAAGUUGUUCUUGGCUAUA	UAUAGGCAAGAAGAAUUGCU	Tradução
sly-miR169a.2-3p	Solyc02g076710.2.1	3.0	9.584	1	20	1470	1489	GGCAAGUUGUUCUUGGCUAU	AUGGCCAAGUACAACUUAACC	Tradução
sly-miR169a.2-3p	Solyc06g075250.2.1	3.0	14.207	1	20	1555	1574	GGCAAGUUGUUCUUGGCUAU	AUGGACAAGGACAAUUGCU	Clivagem
sly-miR169a.2-3p	Solyc07g019590.1.1	3.0	19.081	1	20	518	537	GGCAAGUUGUUCUUGGCUAU	AUAGUCAAAAUCAACUUGCU	Tradução
sly-miR169a.2-3p	Solyc08g014380.1.1	3.0	13.63	1	20	1141	1160	GGCAAGUUGUUCUUGGCUAU	AUAGACAAGCAUGACUUGCC	Tradução
sly-miR169b.1-3p	Solyc09g090150.2.1	2.5	17.58	1	20	576	595	GGCAAGUUGUUCUUGGCUAU	AUGGACAAGAACAACUUGUU	Clivagem
sly-miR169b.1-3p	Solyc09g009970.2.1	2.5	17.179	1	20	706	725	GGCAAGUUGUUCUUGGCUAU	AUGGCCAAGAAGAAUUGUC	Tradução
sly-miR169b.1-3p	Solyc09g091590.2.1	3.0	17.689	1	21	865	885	GGCAAGUUGUUCUUGGCUAUA	UAUAGGCAAGAAGAAUUGCU	Tradução

sly-miR169b.1-3p	Solyc02g076710.2.1	3.0	9.584	1	20	1470	1489	GGCAAGUUGUUCUUGGCUAU	AUGGCCAAGUACAACUUACC	Tradução
sly-miR169b.1-3p	Solyc06g075250.2.1	3.0	14.207	1	20	1555	1574	GGCAAGUUGUUCUUGGCUAU	AUGGACAAGGACAAUUGCU	Clivagem
sly-miR169b.1-3p	Solyc07g019590.1.1	3.0	19.081	1	20	518	537	GGCAAGUUGUUCUUGGCUAU	AUAGUCAAAAUAACUUGCU	Tradução
sly-miR169b.1-3p	Solyc08g014380.1.1	3.0	13.63	1	20	1141	1160	GGCAAGUUGUUCUUGGCUAU	AUAGACAAGCAUGACUUGCC	Tradução
sly-miR169b.1-5p	Solyc08g062210.2.1	2.5	19.433	1	21	1100	1120	CAGCCAAGGAUGACUUGCCGG	UCGGCAGUUAUCCUUGGCUA	Clivagem
sly-miR169b.1-5p	Solyc03g121940.2.1	2.5	17.526	1	20	1022	1041	CAGCCAAGGAUGACUUGCCG	UGGGAAGUCAUCCUUGGCUA	Clivagem
sly-miR169b.1-5p	Solyc01g008490.2.1	2.5	23.6	1	20	1058	1077	CAGCCAAGGAUGACUUGCCG	UGGCAAUUCAUCCUUGGCUU	Clivagem
sly-miR169b.1-5p	Solyc08g075730.2.1	3.0	19.44	1	20	584	603	CAGCCAAGGAUGACUUGCCG	CCGCAAGUUAUUAUUGGCUG	Clivagem
sly-miR169b.1-5p	Solyc09g075020.2.1	3.0	13.726	1	20	3006	3025	CAGCCAAGGAUGACUUGCCG	UGGCAAGUGAUUAUUGGCUG	Clivagem
sly-miR169b.2-5p	Solyc08g062210.2.1	2.5	19.433	1	21	1100	1120	CAGCCAAGGAUGACUUGCCGG	UCGGCAGUUAUCCUUGGCUA	Clivagem
sly-miR169b.2-5p	Solyc03g121940.2.1	2.5	17.526	1	20	1022	1041	CAGCCAAGGAUGACUUGCCG	UGGGAAGUCAUCCUUGGCUA	Clivagem
sly-miR169b.2-5p	Solyc01g008490.2.1	2.5	23.6	1	20	1058	1077	CAGCCAAGGAUGACUUGCCG	UGGCAAUUCAUCCUUGGCUU	Clivagem
sly-miR169b.2-5p	Solyc08g075730.2.1	3.0	19.44	1	20	584	603	CAGCCAAGGAUGACUUGCCG	CCGCAAGUUAUUAUUGGCUG	Clivagem
sly-miR169b.2-5p	Solyc09g075020.2.1	3.0	13.726	1	20	3006	3025	CAGCCAAGGAUGACUUGCCG	UGGCAAGUGAUUAUUGGCUG	Clivagem
sly-miR169b.3-5p	Solyc08g062210.2.1	2.5	19.433	1	21	1100	1120	CAGCCAAGGAUGACUUGCCGG	UCGGCAGUUAUCCUUGGCUA	Clivagem
sly-miR169b.3-5p	Solyc03g121940.2.1	2.5	17.526	1	20	1022	1041	CAGCCAAGGAUGACUUGCCG	UGGGAAGUCAUCCUUGGCUA	Clivagem
sly-miR169b.3-5p	Solyc01g008490.2.1	2.5	23.6	1	20	1058	1077	CAGCCAAGGAUGACUUGCCG	UGGCAAUUCAUCCUUGGCUU	Clivagem
sly-miR169b.3-5p	Solyc08g075730.2.1	3.0	19.44	1	20	584	603	CAGCCAAGGAUGACUUGCCG	CCGCAAGUUAUUAUUGGCUG	Clivagem
sly-miR169b.3-5p	Solyc09g075020.2.1	3.0	13.726	1	20	3006	3025	CAGCCAAGGAUGACUUGCCG	UGGCAAGUGAUUAUUGGCUG	Clivagem
sly-miR169d-3p	Solyc09g057710.2.1	3.0	19.054	1	21	1414	1434	GCAGGUCAUCUUUAGCUAACU	AGUUCCCUAGGAUGACCUGC	Clivagem
sly-miR169d-3p	Solyc05g006320.2.1	3.0	14.304	1	21	373	393	GCAGGUCAUCUUUAGCUAACU	GGCUUGGUAAAGAUGACCUGC	Clivagem
sly-miR169d-5p	Solyc03g121940.2.1	2.5	17.526	1	20	1022	1041	UAGCCAAGGAUGACUUGUCU	UGGGAAGUCAUCCUUGGCUA	Clivagem
sly-miR169d-5p	Solyc08g062210.2.1	3.0	19.433	1	20	1101	1120	UAGCCAAGGAUGACUUGUCU	CGGCAGUUAUCCUUGGCUA	Clivagem
sly-miR169d-5p	Solyc01g087240.2.1	3.0	21.55	1	20	1161	1180	UAGCCAAGGAUGACUUGUCU	AGGCAAUUCAUUCUUGGCUU	Clivagem
sly-miR169d-5p	Solyc10g012030.2.1	3.0	16.21	1	20	2064	2083	UAGCCAAGGAUGACUUGUCU	ACACAAGUCAUCCUUGCCUG	Clivagem
sly-miR169d-5p	Solyc03g046280.1.1	3.0	19.694	1	20	108	127	UAGCCAAGGAUGACUUGUCU	AGAGAAGAUUCCUUGGCUA	Clivagem
sly-miR169d-5p	Solyc09g009230.1.1	3.0	12.279	1	20	882	901	UAGCCAAGGAUGACUUGUCU	AGAAGAGACAUUCUUGGCUA	Clivagem
sly-miR169d-5p	Solyc09g018030.2.1	3.0	10.327	1	20	140	159	UAGCCAAGGAUGACUUGUCU	AUACAAGUGAUUCUUGGUUA	Clivagem
sly-miR169e-3p	Solyc00g016470.1.1	2.5	15.547	1	20	60	79	UGGCAAGCAUCUUUGGCGAC	GUUGUCAAAAGAUUCUUGCUU	Clivagem
sly-miR169e-3p	Solyc06g082560.1.1	2.5	10.104	1	21	2459	2479	UGGCAAGCAUCUUUGGCGACU	AGUUAUCAAAAGAUUCUUGUCA	Clivagem
sly-miR169e-3p	Solyc11g050840.1.1	3.0	24.74	1	21	248	268	UGGCAAGCAUCUUUGGCGACU	AGCCGCCAAAGAUGGUUGCUA	Clivagem
sly-miR169e-3p	Solyc03g124000.1.1	3.0	18.514	1	21	1474	1494	UGGCAAGCAUCUUUGGCGACU	AGUGGUGAAAGAUGCUUGCCG	Clivagem
sly-miR169e-3p	Solyc03g115000.2.1	3.0	13.677	1	19	93	112	UGGCAAGCAU-CUUUGGCGA	UCGUCAAAGUAUGCUUGCUA	Tradução
sly-miR169e-5p	Solyc03g121940.2.1	2.0	17.526	1	20	1022	1041	UAGCCAAGGAUGACUUGCCU	UGGGAAGUCAUCCUUGGCUA	Clivagem
sly-miR169e-5p	Solyc08g062210.2.1	2.5	19.433	1	20	1101	1120	UAGCCAAGGAUGACUUGCCU	CGGCAGUUAUCCUUGGCUA	Clivagem

sly-miR169e-5p	Solyc01g087240.2.1	2.5	21.55	1	20	1161	1180	UAGCCAAGGAUGACUUGCCU	AGGCAAUUCAUUCUUGGCUU	Clivagem
sly-miR169e-5p	Solyc06g068930.1.1	3.0	24.402	1	20	588	607	UAGCCAAGGAUGACUUGCCU	UCGCAAGGCAUCCUUGGCUA	Clivagem
sly-miR169e-5p	Solyc01g008490.2.1	3.0	23.6	1	20	1058	1077	UAGCCAAGGAUGACUUGCCU	UGGCAAUUCAUCCUUGGCUU	Clivagem
sly-miR169e-5p	Solyc01g006930.2.1	3.0	24.426	1	22	1316	1337	UAGCCAAGGAUGACUUGCCUUU	AUGGGCAGUUCAUCCUUGGCUU	Clivagem
sly-miR169e-5p	Solyc12g006040.1.1	3.0	15.123	1	22	10	31	UAGCCAAGGAUGACUUGCCUUU	AUAGGUAAGACAACUUUGGCUA	Tradução
sly-miR169f.1-5p	Solyc03g121940.2.1	2.0	17.526	1	20	1022	1041	UAGCCAAGGAUGACUUGCCU	UGGGAAGUCAUCCUUGGCUA	Clivagem
sly-miR169f.1-5p	Solyc01g006930.2.1	3.0	24.426	1	21	1317	1337	UAGCCAAGGAUGACUUGCCUA	UGGGCAGUUCAUCCUUGGCUU	Clivagem
sly-miR169f.1-5p	Solyc08g062210.2.1	2.5	19.433	1	21	1100	1120	UAGCCAAGGAUGACUUGCCUA	UCGGCAGUUCAUCCUUGGCUA	Clivagem
sly-miR169f.1-5p	Solyc01g087240.2.1	2.5	21.55	1	20	1161	1180	UAGCCAAGGAUGACUUGCCU	AGGCAAUUCAUUCUUGGCUU	Clivagem
sly-miR169f.1-5p	Solyc06g068930.1.1	3.0	24.402	1	20	588	607	UAGCCAAGGAUGACUUGCCU	UCGCAAGGCAUCCUUGGCUA	Clivagem
sly-miR169f.1-5p	Solyc12g006040.1.1	3.0	15.123	1	21	11	31	UAGCCAAGGAUGACUUGCCUA	UAGGUAAGACAACUUUGGCUA	Tradução
sly-miR169f.1-5p	Solyc01g008490.2.1	3.0	23.6	1	20	1058	1077	UAGCCAAGGAUGACUUGCCU	UGGCAAUUCAUCCUUGGCUU	Clivagem
sly-miR169g-5p	Solyc01g087240.2.1	2.5	21.55	1	21	1160	1180	UAGCCAAGGAUGACUUGCCUG	CAGGCAGUUCAUUCUUGGCUU	Clivagem
sly-miR169g-5p	Solyc03g121940.2.1	2.0	17.526	1	20	1022	1041	UAGCCAAGGAUGACUUGCCU	UGGGAAGUCAUCCUUGGCUA	Clivagem
sly-miR169g-5p	Solyc06g068930.1.1	3.0	24.402	1	22	586	607	UAGCCAAGGAUGACUUGCCUGC	GCUCGCAAGGCAUCCUUGGCUA	Clivagem
sly-miR169g-5p	Solyc08g062210.2.1	2.5	19.433	1	20	1101	1120	UAGCCAAGGAUGACUUGCCU	CGGCAGUUCAUCCUUGGCUA	Clivagem
sly-miR169g-5p	Solyc01g006930.2.1	3.0	24.426	1	21	1317	1337	UAGCCAAGGAUGACUUGCCUG	UGGGCAGUUCAUCCUUGGCUU	Clivagem
sly-miR169g-5p	Solyc01g008490.2.1	3.0	23.6	1	20	1058	1077	UAGCCAAGGAUGACUUGCCU	UGGCAAUUCAUCCUUGGCUU	Clivagem
sly-miR169g-5p	Solyc12g006040.1.1	3.0	15.123	1	21	11	31	UAGCCAAGGAUGACUUGCCUG	UAGGUAAGACAACUUUGGCUA	Tradução
sly-miR169m-5p	Solyc09g075020.2.1	2.5	13.726	1	20	3006	3025	UAGCCAAAAUGACUUGCCA	UGGCAAGUGAUUAUUGGCUG	Clivagem
sly-miR169m-5p	Solyc03g121940.2.1	3.0	17.526	1	20	1022	1041	UAGCCAAAAUGACUUGCCA	UGGGAAGUCAUCCUUGGCUA	Tradução
sly-miR170.1-3p	Solyc08g078800.1.1	1.0	18.525	1	21	396	416	UGAUUGAGCCGUGUCAAUUUC	GAUUAUUGGCGCGGCUCUAAUCA	Clivagem
sly-miR170.1-3p	Solyc01g090950.2.1	1.0	21.062	1	21	1570	1590	UGAUUGAGCCGUGUCAAUUUC	GAUUAUUGGCGCGGCUCUAAUCA	Clivagem
sly-miR170.1-3p	Solyc02g085600.1.1	2.5	19.998	1	21	585	605	UGAUUGAGCCGUGUCAAUUUC	GAUACUGGCACGCCUCUAAUCA	Tradução
sly-miR170.1-3p	Solyc08g081890.2.1	3.0	17.791	1	20	3647	3666	UGAUUGAGCCGUGUCAAUUUC	AUAUUGGCAUGGCUCUUAUCG	Clivagem
sly-miR170.1-3p	Solyc10g062220.1.1	3.0	15.173	1	21	154	174	UGAUUGAGCCGUGUCAAUUUC	GAUUAUUGAUACGCGUCGAUCA	Tradução
sly-miR170.1-3p	Solyc01g089950.2.1	3.0	12.514	1	19	8	27	UGAUUGAGCCG-UGUCAUA	UAUUGAUAGCGGUUCAAUCA	Clivagem
sly-miR170.2-3p	Solyc08g078800.1.1	0.5	18.525	1	20	397	416	UGAUUGAGCCGUGCCAUAU	AUAUUGGCGCGGCUCUAAUCA	Clivagem
sly-miR170.2-3p	Solyc01g090950.2.1	0.5	21.062	1	20	1571	1590	UGAUUGAGCCGUGCCAUAU	AUAUUGGCGCGGCUCUAAUCA	Clivagem
sly-miR170.2-3p	Solyc08g081890.2.1	2.5	17.791	1	20	3647	3666	UGAUUGAGCCGUGCCAUAU	AUAUUGGCAUGGCUCUUAUCG	Clivagem
sly-miR170.2-3p	Solyc02g085600.1.1	2.0	19.998	1	20	586	605	UGAUUGAGCCGUGCCAUAU	AUACUGGCACGCCUCUAAUCA	Tradução
sly-miR170.2-3p	Solyc09g011070.1.1	3.0	17.25	1	20	583	602	UGAUUGAGCCGUGCCAUAU	AUAUUGGCAUGGCUUGAUUA	Clivagem
sly-miR171b.1-3p	Solyc08g078800.1.1	1.5	16.529	1	20	394	413	UUGAGCCGUGCCAUAUUCAC	AUGAUUAUUGGCGCGGCUCAA	Clivagem
sly-miR171b.1-3p	Solyc11g013150.1.1	1.5	24.025	1	20	379	398	UUGAGCCGUGCCAUAUUCAC	GUGAUUAUUGGUUCGGCUCAA	Tradução
sly-miR171b.1-3p	Solyc01g090950.2.1	1.5	20.723	1	20	1568	1587	UUGAGCCGUGCCAUAUUCAC	GGGAUAUUGGCGCGGCUCAA	Clivagem

sly-miR171b.1-3p	Solyc02g085600.1.1	2.5	19.003	1	21	582	602	UUGAGCCGUGCCAAUAUCACG	UGUGAUACUGGCACGCCUCAA	Clivagem
sly-miR171b.1-3p	Solyc03g025700.1.1	2.5	13.757	1	20	746	765	UUGAGCCGUGCCAAUAUCAC	GUGAUUUUGUUAAAGGCUCAA	Tradução
sly-miR171b.1-5p	Solyc03g025730.2.1	3.0	23.331	1	20	141	160	AGAUUUUGGUGCGGUUCAAU	AUUGGAGCGCGUCAAUUGUCU	Clivagem
sly-miR171b.1-5p	Solyc05g008610.2.1	3.0	13.975	1	20	157	176	AGAUUUUGGUGCGGUUCAAU	GUUGAACUGAAUCAAUUGUCU	Tradução
sly-miR171b.1-5p	Solyc11g062440.1.1	2.5	24.927	1	20	281	300	AGAUUUUGGUGCGGUUCAAU	AUGGAACUGCAGCAAUAUCU	Tradução
sly-miR171b.1-5p	Solyc07g064260.2.1	3.0	17.443	1	20	1090	1109	AGAUUUUGGUGCGGUUCAAU	AUGGAACUGCUCCAAUGUCU	Tradução
sly-miR171b.1-5p	Solyc10g084180.1.1	3.0	10.974	1	20	1004	1023	AGAUUUUGGUGCGGUUCAAU	AUUCGACCACACCAAUGUCU	Clivagem
sly-miR171b.1-5p	Solyc12g017700.1.1	3.0	17.289	1	20	1091	1110	AGAUUUUGGUGCGGUUCAAU	AUUUAAAAGCACCAAUAUCU	Clivagem
sly-miR171b.2-3p	Solyc08g078800.1.1	1.5	16.529	1	20	394	413	UUGAGCCGUGCCAAUAUCAC	AUGAUUUUGGCGCGGCUCAA	Clivagem
sly-miR171b.2-3p	Solyc11g013150.1.1	1.5	24.025	1	20	379	398	UUGAGCCGUGCCAAUAUCAC	GUGAUUUUGGUUCGGCUCAA	Tradução
sly-miR171b.2-3p	Solyc01g090950.2.1	1.5	20.723	1	20	1568	1587	UUGAGCCGUGCCAAUAUCAC	GGGAUUUUGGCGCGGCUCAA	Clivagem
sly-miR171b.2-3p	Solyc02g085600.1.1	2.5	19.003	1	21	582	602	UUGAGCCGUGCCAAUAUCACG	UGUGAUACUGGCACGCCUCAA	Clivagem
sly-miR171b.2-3p	Solyc03g025700.1.1	2.5	13.757	1	20	746	765	UUGAGCCGUGCCAAUAUCAC	GUGAUUUUGUUAAAGGCUCAA	Tradução
sly-miR171b.3-3p	Solyc08g078800.1.1	0.5	18.525	1	21	396	416	UGAUUGAGCCGUGCCAAUAUC	GAUUAUUGGCGCGGCUCAAUCA	Clivagem
sly-miR171b.3-3p	Solyc01g090950.2.1	0.5	21.062	1	21	1570	1590	UGAUUGAGCCGUGCCAAUAUC	GAUUAUUGGCGCGGCUCAAUCA	Clivagem
sly-miR171b.3-3p	Solyc02g085600.1.1	2.0	19.998	1	21	585	605	UGAUUGAGCCGUGCCAAUAUC	GAUACUGGCACGCCUCAAUCA	Tradução
sly-miR171b.3-3p	Solyc08g081890.2.1	2.5	17.791	1	20	3647	3666	UGAUUGAGCCGUGCCAAUAU	AUAUUGGCAUGGCUCUAUCG	Clivagem
sly-miR171b.3-3p	Solyc09g011070.1.1	3.0	17.25	1	20	583	602	UGAUUGAGCCGUGCCAAUAU	AUAUUGGCAUGGGUUGAUUA	Clivagem
sly-miR171b.4-3p	Solyc08g078800.1.1	1.5	16.529	1	20	394	413	UUGAGCCGUGCCAAUAUCAC	AUGAUUUUGGCGCGGCUCAA	Clivagem
sly-miR171b.4-3p	Solyc11g013150.1.1	1.5	24.025	1	20	379	398	UUGAGCCGUGCCAAUAUCAC	GUGAUUUUGGUUCGGCUCAA	Tradução
sly-miR171b.4-3p	Solyc01g090950.2.1	1.5	20.723	1	20	1568	1587	UUGAGCCGUGCCAAUAUCAC	GGGAUUUUGGCGCGGCUCAA	Clivagem
sly-miR171b.4-3p	Solyc02g085600.1.1	2.5	19.003	1	21	582	602	UUGAGCCGUGCCAAUAUCACG	UGUGAUACUGGCACGCCUCAA	Clivagem
sly-miR171b.4-3p	Solyc03g025700.1.1	2.5	13.757	1	20	746	765	UUGAGCCGUGCCAAUAUCAC	GUGAUUUUGUUAAAGGCUCAA	Tradução
sly-miR171c.1-3p	Solyc08g078800.1.1	0.0	18.525	1	20	397	416	UGAUUGAGCCGCGCCAAUAU	AUAUUGGCGCGGCUCAAUCA	Clivagem
sly-miR171c.1-3p	Solyc01g090950.2.1	0.0	21.062	1	20	1571	1590	UGAUUGAGCCGCGCCAAUAU	AUAUUGGCGCGGCUCAAUCA	Clivagem
sly-miR171c.1-3p	Solyc02g085600.1.1	3.0	19.998	1	20	586	605	UGAUUGAGCCGCGCCAAUAU	AUACUGGCACGCCUCAAUCA	Tradução
sly-miR171c.1-5p	Solyc03g121740.1.1	2.5	15.696	1	21	731	751	UAUUGGUGCGGUUCAUGAGA	UUUCAUUGAAUUGCACUAAUG	Clivagem
sly-miR171c.1-5p	Solyc03g081220.1.1	3.0	20.7	1	20	454	473	UAUUGGUGCGGUUCAUGAG	CUUGUUGAAUCGCACCAAGA	Clivagem
sly-miR171c.1-5p	Solyc12g032950.1.1	3.0	17.969	1	20	1605	1624	UAUUGGUGCGGUUCAUGAG	CUAUUUGAAGCGCACCAUA	Tradução
sly-miR171c.2-3p	Solyc08g078800.1.1	1.0	18.525	1	21	396	416	AGAUUGAGCCGCGCCAAUAUC	GAUUAUUGGCGCGGCUCAAUCA	Clivagem
sly-miR171c.2-3p	Solyc01g090950.2.1	1.0	21.062	1	21	1570	1590	AGAUUGAGCCGCGCCAAUAUC	GAUUAUUGGCGCGGCUCAAUCA	Clivagem
sly-miR171c.2-3p	Solyc06g005170.2.1	3.0	7.741	1	20	14	33	AGAUUGAGCCGCGCCAAUAU	AUAUGGUGCUGCUCAAUUU	Tradução
sly-miR171c.3-3p	Solyc08g078800.1.1	1.0	18.525	1	21	396	416	AGAUUGAGCCGCGCCAAUAUC	GAUUAUUGGCGCGGCUCAAUCA	Clivagem
sly-miR171c.3-3p	Solyc01g090950.2.1	1.0	21.062	1	21	1570	1590	AGAUUGAGCCGCGCCAAUAUC	GAUUAUUGGCGCGGCUCAAUCA	Clivagem
sly-miR171c.3-3p	Solyc06g005170.2.1	3.0	7.741	1	20	14	33	AGAUUGAGCCGCGCCAAUAU	AUAUGGUGCUGCUCAAUUU	Tradução

sly-miR171c.3-5p	Solyc11g005280.1.1	2.5	14.675	1	20	588	607	GAUGUUGGUGAGGUUCAUC	GAUUGAACCUCCAACGUG	Tradução
sly-miR171c.3-5p	Solyc11g005300.1.1	2.5	14.542	1	20	615	634	GAUGUUGGUGAGGUUCAUC	GAUUGAACCUCCAACGUG	Tradução
sly-miR171c.3-5p	Solyc01g014150.1.1	3.0	16.412	1	20	305	324	GAUGUUGGUGAGGUUCAUC	GAUGGAAUCUUACCAACUA	Clivagem
sly-miR171c.3-5p	Solyc05g054500.1.1	3.0	18.858	1	20	138	157	GAUGUUGGUGAGGUUCAUC	GAGUGAGUCUCAACGUC	Clivagem
sly-miR171c.3-5p	Solyc03g043910.2.1	3.0	16.698	1	20	260	279	GAUGUUGGUGAGGUUCAUC	GAUUAUCUUCACCGACAUC	Clivagem
sly-miR171c.3-5p	Solyc03g093760.1.1	3.0	22.453	1	20	568	587	GAUGUUGGUGAGGUUCAUC	GAGUGGAACUCACUAAACUC	Clivagem
sly-miR171f-3p	Solyc11g013150.1.1	1.0	24.025	1	21	378	398	AUGAGCCGAACCAUAUCACU	AGUGAUUUGGUUCGGCUCAA	Clivagem
sly-miR171f-3p	Solyc07g063860.2.1	1.5	6.875	1	20	377	396	AUGAGCCGAACCAUAUCAC	UUGAUUUGGUUUGGCUCAU	Clivagem
sly-miR171f-3p	Solyc08g069180.2.1	2.5	21.349	1	21	1723	1743	AUGAGCCGAACCAUAUCACU	AGUGAUGUUGGUUUGGCUCGG	Clivagem
sly-miR171f-3p	Solyc09g015520.2.1	3.0	14.405	1	21	2675	2695	AUGAGCCGAACCAUAUCACU	GGAGAUUUUGGUUUGGCUCGU	Clivagem
sly-miR171f-3p	Solyc01g017140.1.1	3.0	13.154	1	20	209	228	AUGAGCCGAACCAUAUCAC	UUGUUAUUGCUUGGCUCAU	Tradução
sly-miR171i-3p	Solyc08g078800.1.1	1.5	18.525	1	21	396	416	GAUUGAGCCGCGUCAUAUC	GAUUAUUGGCGCGGCUCAAUA	Clivagem
sly-miR171i-3p	Solyc01g090950.2.1	1.5	21.062	1	21	1570	1590	GAUUGAGCCGCGUCAUAUC	GAUUAUUGGCGCGGCUCAAUA	Clivagem
sly-miR171i-3p	Solyc11g007610.1.1	3.0	14.195	1	20	842	861	GAUUGAGCCGCGUCAUAU	AUGUUGAUGCGGUUGAAUCC	Clivagem
sly-miR171i-3p	Solyc05g055610.2.1	3.0	17.284	1	21	440	460	GAUUGAGCCGCGUCAUAUC	GAUUAUUGAGGCAGCUCAAUUU	Tradução
sly-miR172d.10-5p	Solyc04g049800.2.1	0.5	9.937	1	21	1107	1127	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUC	Clivagem
sly-miR172d.10-5p	Solyc11g072600.1.1	0.5	12.749	1	21	1278	1298	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUC	Clivagem
sly-miR172d.10-5p	Solyc06g075510.2.1	1.0	15.031	1	20	1513	1532	GAGAAUCUUGAUGAUGCUGC	GCAGCAUCAUCAGGAUUCUU	Clivagem
sly-miR172d.10-5p	Solyc03g044300.2.1	2.0	15.696	1	21	1374	1394	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCC	Clivagem
sly-miR172d.10-5p	Solyc09g007260.2.1	2.0	11.785	1	21	1513	1533	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCGC	Clivagem
sly-miR172d.10-5p	Solyc02g093150.2.1	2.0	15.921	1	21	1562	1582	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCC	Clivagem
sly-miR172d.10-5p	Solyc02g064960.2.1	2.0	16.432	1	21	1734	1754	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCC	Clivagem
sly-miR172d.10-5p	Solyc10g084340.1.1	3.0	14.739	1	21	1242	1262	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCGG	Clivagem
sly-miR172d.10-5p	Solyc01g090460.2.1	3.0	18.516	1	22	342	363	GAGAAUCUUGAUGAUGCUGCAU	AUGCAUCAUCAAGUUUCUU	Clivagem
sly-miR172d.10-5p	Solyc09g072830.2.1	3.0	15.379	1	20	330	349	GAGAAUCUUGAUGAUGCUGC	UCAUCAUCAAGGAUUUUC	Clivagem
sly-miR172d.10-5p	Solyc02g043870.1.1	3.0	17.146	1	20	547	566	GAGAAUCUUGAUGAUGCUGC	GUUGCAUUACCAAGAUUCUC	Tradução
sly-miR172d.10-5p	Solyc03g097410.1.1	3.0	20.719	1	22	66	88	GAGAAUCUU-GAUGAUGCUGCAU	AAGCAGCUUCAUCCAAGAUUCUC	Tradução
sly-miR172d.1-3p	Solyc11g072600.1.1	0.5	12.706	1	22	1278	1299	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCA	Clivagem
sly-miR172d.1-3p	Solyc04g049800.2.1	1.5	8.926	1	22	1107	1128	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCU	Clivagem
sly-miR172d.1-3p	Solyc06g075510.2.1	2.0	14.962	1	21	1513	1533	UGAGAAUCUUGAUGAUGCUGC	GCAGCAUCAUCAGGAUUCUUC	Clivagem
sly-miR172d.1-3p	Solyc03g044300.2.1	3.0	16.384	1	22	1374	1395	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCC	Clivagem
sly-miR172d.1-3p	Solyc09g007260.2.1	3.0	12.601	1	22	1513	1534	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCGCU	Clivagem
sly-miR172d.1-3p	Solyc02g093150.2.1	3.0	15.929	1	22	1562	1583	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCCU	Clivagem
sly-miR172d.1-3p	Solyc02g064960.2.1	3.0	15.721	1	22	1734	1755	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCCU	Clivagem
sly-miR172d.1-3p	Solyc09g075970.2.1	3.0	12.391	1	20	925	944	UGAGAAUCUUGAUGAUGCUG	GUUCAUCAUCAAGAUUCUCA	Clivagem

sly-miR172d.1-3p	Solyc01g096240.2.1	2.5	10.629	1	20	238	257	UGAGAAUCUUGAUGAUGCUG	CAAUGUCAUCAAGAUUCUUA	Clivagem
sly-miR172d.1-3p	Solyc02g043870.1.1	3.0	15.714	1	21	547	567	UGAGAAUCUUGAUGAUGCUGC	GUUGCAUUACCAAGAUUCUCA	Clivagem
sly-miR172d.1-3p	Solyc07g032400.1.1	2.5	22.569	1	22	66	87	UGAGAAUCUUGAUGAUGCUGCA	UACAGUAUCAGCAAAAUUCUCA	Clivagem
sly-miR172d.1-3p	Solyc05g055030.1.1	3.0	11.597	1	20	451	470	UGAGAAUCUUGAUGAUGCUG	AAUUAUUUAUCAAGAUUCUCA	Clivagem
sly-miR172d.1-3p	Solyc09g072830.2.1	3.0	14.047	1	20	331	350	UGAGAAUCUUGAUGAUGCUG	CAUCAUCAUCAGGAUUUCC	Clivagem
sly-miR172d.1-3p	Solyc01g079330.2.1	3.0	16.398	1	22	2324	2344	UGAGAAUCUUGAUGAUGCUGCA	UGCUGCAUCAUCA-AUUCUCA	Clivagem
sly-miR172d.1-3p	Solyc03g031810.2.1	3.0	12.895	1	23	159	181	UGAGAAUCUUGAUGAUGCUGCAU	AUUCAGCUACAACAAGAUUCUCA	Clivagem
sly-miR172d.1-3p	Solyc02g081690.1.1	3.0	19.623	1	20	772	791	UGAGAAUCUUGAUGAUGCUG	CAGUGGCAUCAAGAUUCUUG	Clivagem
sly-miR172d.1-3p	Solyc09g014220.2.1	3.0	18.939	1	20	1626	1645	UGAGAAUCUUGAUGAUGCUG	CAGCAUCAUCAACUUUUUCA	Clivagem
sly-miR172d.1-3p	Solyc01g006950.2.1	3.0	24.005	1	20	152	171	UGAGAAUCUUGAUGAUGCUG	GAUCAUGAUCAAGAUUCUCA	Clivagem
sly-miR172d.1-3p	Solyc11g012550.1.1	3.0	11.383	1	20	394	413	UGAGAAUCUUGAUGAUGCUG	AAGAAUGAUCAAGAUUCUCA	Clivagem
sly-miR172d.1-3p	Solyc11g012540.1.1	3.0	12.838	1	20	379	398	UGAGAAUCUUGAUGAUGCUG	AAGAAUGAUCAAGAUUCUCA	Clivagem
sly-miR172d.1-3p	Solyc04g077360.2.1	3.0	13.198	1	22	1814	1835	UGAGAAUCUUGAUGAUGCUGCA	UAUAUCUUCAUCAAGAUUCUG	Clivagem
sly-miR172d.1-3p	Solyc01g067010.2.1	3.0	6.486	1	20	136	155	UGAGAAUCUUGAUGAUGCUG	CAUCAUCAUUGAAAUUCUCA	Clivagem
sly-miR172d.1-3p	Solyc03g034130.2.1	3.0	19.644	1	20	555	574	UGAGAAUCUUGAUGAUGCUG	CAACUUCAUCAAUUUCUCA	Clivagem
sly-miR172d.1-3p	Solyc03g034120.2.1	3.0	20.034	1	20	596	615	UGAGAAUCUUGAUGAUGCUG	CAACUUCAUCAAUUUCUCA	Clivagem
sly-miR172d.1-3p	Solyc10g079460.1.1	3.0	3.548	1	20	1459	1478	UGAGAAUCUUGAUGAUGCUG	CAUCAUCAUCAUUCUCA	Tradução
sly-miR172d.1-5p	Solyc12g099900.1.1	3.0	24.185	1	21	474	494	GCAGCACCAUUAAGAUUCACA	UGUGGAUCUUAUUGCUGCUGA	Clivagem
sly-miR172d.1-5p	Solyc04g010070.2.1	3.0	21.629	1	21	33	53	GCAGCACCAUUAAGAUUCACA	UGUGGAUUUUAAUGGUGAUGU	Clivagem
sly-miR172d.1-5p	Solyc05g012770.2.1	3.0	13.843	1	21	2176	2196	GCAGCACCAUUAAGAUUCACA	UGUGAAUCUGAAUGAUGUUGC	Clivagem
sly-miR172d.1-5p	Solyc04g009720.1.1	3.0	19.744	1	20	520	539	GCAGCACCAUUAAGAUUCAC	GUGGAUUUUGAUGGUGUUGA	Clivagem
sly-miR172d.1-5p	Solyc10g084680.1.1	3.0	15.696	1	21	573	593	GCAGCACCAUUAAGAUUCACA	UGUGAUUGUUAUUGGUGCUGG	Clivagem
sly-miR172d.1-5p	Solyc05g012270.2.1	2.5	19.815	1	20	143	161	GCAGCACCAUUAAGAUUCAC	GUGAAU-UUAUUGGUGUUGC	Clivagem
sly-miR172d.2-3p	Solyc03g044300.2.1	0.5	14.552	1	21	1373	1393	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUC	Clivagem
sly-miR172d.2-3p	Solyc02g093150.2.1	0.5	16.079	1	21	1561	1581	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUC	Clivagem
sly-miR172d.2-3p	Solyc02g064960.2.1	0.5	16.904	1	21	1733	1753	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUC	Clivagem
sly-miR172d.2-3p	Solyc04g049800.2.1	1.0	10.036	1	21	1106	1126	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCU	Clivagem
sly-miR172d.2-3p	Solyc11g072600.1.1	1.0	12.759	1	21	1277	1297	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCU	Clivagem
sly-miR172d.2-3p	Solyc10g084340.1.1	1.5	14.846	1	21	1241	1261	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCG	Clivagem
sly-miR172d.2-3p	Solyc09g007260.2.1	1.5	10.962	1	21	1512	1532	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCG	Clivagem
sly-miR172d.2-3p	Solyc06g075510.2.1	2.0	15.012	1	21	1511	1531	GGAAUCUUGAUGAUGCUGCAG	CGGCAGCAUCAUCAGGAUUCU	Clivagem
sly-miR172d.2-3p	Solyc09g007700.2.1	3.0	2.207	1	20	48	67	GGAAUCUUGAUGAUGCUGCA	AUCAUCAUCAAGAUUCC	Clivagem
sly-miR172d.2-3p	Solyc01g090460.2.1	3.0	17.795	1	20	343	362	GGAAUCUUGAUGAUGCUGCA	UGCAUCAUCAAGAUUUCU	Clivagem
sly-miR172d.2-3p	Solyc01g111440.2.1	3.0	13.114	1	21	9297	9317	GGAAUCUUGAUGAUGCUGCAG	UUUCAGCAUCCUCGAGGUCC	Tradução
sly-miR172d.2-3p	Solyc12g010650.1.1	3.0	18.548	1	20	27	46	GGAAUCUUGAUGAUGCUGCA	UGAAGCUUUUAUCAAGAUUUC	Clivagem

sly-miR172d.2-3p	Solyc07g063770.2.1	3.0	18.332	1	20	1865	1884	GGAAUCUUGAUGAUGCUGCA	UGUAUCUUCAUCAAGAUUCU	Clivagem
sly-miR172d.2-3p	Solyc10g006710.2.1	3.0	17.771	1	20	1877	1896	GGAAUCUUGAUGAUGCUGCA	UGUACCUUCAUCAAGAUUCU	Clivagem
sly-miR172d.2-5p	Solyc09g005160.1.1	3.0	17.744	1	23	723	745	GUGGAGCAUCAUCAAGAUUCACA	UGUGAGUGUUGAUGAUCUUUAU	Clivagem
sly-miR172d.2-5p	Solyc06g062990.1.1	3.0	15.293	1	21	833	853	GUGGAGCAUCAUCAAGAUUCA	UGGAUCUUCAUGAUCUUUAU	Clivagem
sly-miR172d.2-5p	Solyc08g061650.2.1	3.0	16.82	1	20	2027	2046	GUGGAGCAUCAUCAAGAUUC	GAAACUUGAUGGUGCUUCA	Clivagem
sly-miR172d.2-5p	Solyc02g094540.2.1	3.0	20.283	1	20	1104	1123	GUGGAGCAUCAUCAAGAUUC	GGAUCUUGGUGAUGUUUCAC	Tradução
sly-miR172d.2-5p	Solyc02g032860.2.1	3.0	17.054	1	20	261	280	GUGGAGCAUCAUCAAGAUUC	GGAUCUUGAAAAUGCUUCAC	Tradução
sly-miR172d.3-5p	Solyc09g007260.2.1	2.0	12.601	1	22	1513	1534	UGUGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCGCU	Clivagem
sly-miR172d.3-5p	Solyc11g072600.1.1	2.0	12.706	1	22	1278	1299	UGUGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCA	Clivagem
sly-miR172d.3-5p	Solyc10g084340.1.1	2.5	15.055	1	22	1242	1263	UGUGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCGGA	Clivagem
sly-miR172d.3-5p	Solyc04g049800.2.1	3.0	8.926	1	22	1107	1128	UGUGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCU	Clivagem
sly-miR172d.3-5p	Solyc03g044300.2.1	3.0	16.384	1	22	1374	1395	UGUGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCCCC	Clivagem
sly-miR172d.3-5p	Solyc02g093150.2.1	3.0	15.929	1	22	1562	1583	UGUGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCCCU	Clivagem
sly-miR172d.3-5p	Solyc02g064960.2.1	3.0	15.721	1	22	1734	1755	UGUGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCCCU	Clivagem
sly-miR172d.3-5p	Solyc05g012280.2.1	2.0	15.996	1	23	252	274	UGUGAAUCUUGAUGAUGCUGCAU	AUCCAGCAUUUUAAGAUUCAUA	Clivagem
sly-miR172d.3-5p	Solyc03g111570.2.1	2.5	15.152	1	21	430	450	UGUGAAUCUUGAUGAUGCUGC	GUAGUGUUUAUCAAGAUUUACA	Clivagem
sly-miR172d.3-5p	Solyc09g059570.2.1	3.0	13.083	1	20	514	533	UGUGAAUCUUGAUGAUGCUG	UAGUAUUUAUCAAGAUUCAGA	Clivagem
sly-miR172d.3-5p	Solyc05g052560.1.1	3.0	14.08	1	20	102	121	UGUGAAUCUUGAUGAUGCUG	AAACAUCAUCAAGAUUCGUA	Clivagem
sly-miR172d.3-5p	Solyc03g117530.1.1	3.0	14.8	1	20	195	214	UGUGAAUCUUGAUGAUGCUG	UAGCAUCAUUAGUAUUUACA	Clivagem
sly-miR172d.3-5p	Solyc01g068460.2.1	3.0	15.865	1	21	2517	2536	UGUGAAUCUUGAUGAUGCUGC	GCAGCG-CAUCAGGAUUCACA	Clivagem
sly-miR172d.3-5p	Solyc02g085190.1.1	3.0	17.068	1	23	565	587	UGUGAAUCUUGAUGAUGCUGCAU	GUUCAUCAUCAUACCAUUCACA	Tradução
sly-miR172d.3-5p	Solyc04g077220.2.1	3.0	7.816	1	20	179	198	UGUGAAUCUUGAUGAUGCUG	CAACAUCAUCAGAGUUCACA	Clivagem
sly-miR172d.3-5p	Solyc03g095710.2.1	3.0	19.924	1	20	675	694	UGUGAAUCUUGAUGAUGCUG	UAACAUCACCAAGAUUUACA	Clivagem
sly-miR172d.3-5p	Solyc08g076310.2.1	3.0	11.552	1	20	2697	2716	UGUGAAUCUUGAUGAUGCUG	CAGUAUACCACGAUUCGCA	Tradução
sly-miR172d.3-5p	Solyc02g092230.2.1	3.0	13.144	1	20	453	472	UGUGAAUCUUGAUGAUGCUG	CAGCAUCUUCACAAUUCACA	Tradução
sly-miR172d.4-3p	Solyc04g049800.2.1	0.5	9.937	1	21	1107	1127	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUC	Clivagem
sly-miR172d.4-3p	Solyc11g072600.1.1	0.5	12.749	1	21	1278	1298	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUC	Clivagem
sly-miR172d.4-3p	Solyc06g075510.2.1	1.0	15.031	1	20	1513	1532	GAGAAUCUUGAUGAUGCUGC	GCAGCAUCAUCAGGAUUCUU	Clivagem
sly-miR172d.4-3p	Solyc03g044300.2.1	2.0	15.696	1	21	1374	1394	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUU	Clivagem
sly-miR172d.4-3p	Solyc09g007260.2.1	2.0	11.785	1	21	1513	1533	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCGC	Clivagem
sly-miR172d.4-3p	Solyc02g093150.2.1	2.0	15.921	1	21	1562	1582	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUU	Clivagem
sly-miR172d.4-3p	Solyc02g064960.2.1	2.0	16.432	1	21	1734	1754	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUU	Clivagem
sly-miR172d.4-3p	Solyc10g084340.1.1	3.0	14.739	1	21	1242	1262	GAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCGG	Clivagem
sly-miR172d.4-3p	Solyc01g090460.2.1	3.0	18.516	1	22	342	363	GAGAAUCUUGAUGAUGCUGCAU	AUGCAUCAUCAAGAUUUUU	Clivagem
sly-miR172d.4-3p	Solyc09g072830.2.1	3.0	15.379	1	20	330	349	GAGAAUCUUGAUGAUGCUGC	UCAUCAUCAUCAGGAUUUUC	Clivagem

sly-miR172d.4-3p	Solyc02g043870.1.1	3.0	17.146	1	20	547	566	GAGAAUCUUGAUGAUGCUGC	GUUGCAUUACCAAGAUUCUC	Tradução
sly-miR172d.4-3p	Solyc03g097410.1.1	3.0	20.719	1	22	66	88	GAGAAUCUU-GAUGAUGCUGCAU	AAGCAGCUUCAUCCAAGAUUCUC	Tradução
sly-miR172d.5-3p	Solyc02g088560.2.1	3.0	20.172	1	21	1356	1376	AGAAUCUUAUAGUGCUGCAU	AUCCGUCACUGUUAAGAUUCU	Clivagem
sly-miR172d.5-3p	Solyc11g067000.1.1	2.5	11.295	1	20	2325	2344	AGAAUCUUAUAGUGCUGCA	UGCAGCACUUUUUGGAUUCU	Tradução
sly-miR172d.5-3p	Solyc11g013880.1.1	3.0	14.944	1	21	613	632	AGAAUCUUAUAGUGCUGCAU	AUGCAGC-CUAUUGGGAUUCU	Clivagem
sly-miR172d.5-3p	Solyc04g049800.2.1	3.0	10.036	1	20	1107	1126	AGAAUCUUAUAGUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Tradução
sly-miR172d.5-3p	Solyc11g072600.1.1	3.0	12.759	1	20	1278	1297	AGAAUCUUAUAGUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Tradução
sly-miR172d.5-5p	Solyc06g008730.2.1	1.5	17.671	1	24	317	340	AAUGCAGCAUCAUCAAGAUUCACA	UGUUAUUUUUGAUGAUUCUGCAUU	Clivagem
sly-miR172d.5-5p	Solyc05g025780.2.1	3.0	20.194	1	24	327	350	AAUGCAGCAUCAUCAAGAUUCACA	UGGGAAUCUUGAUGUUGAUGUAUU	Tradução
sly-miR172d.5-5p	Solyc01g058430.1.1	3.0	19.106	1	24	657	680	AAUGCAGCAUCAUCAAGAUUCACA	UGUAGUUGUUGAUGGUGCUGCAUU	Clivagem
sly-miR172d.5-5p	Solyc10g055510.1.1	3.0	23.783	1	24	435	458	AAUGCAGCAUCAUCAAGAUUCACA	UGUAGUUGUUGAUGGUGCUGCAUU	Clivagem
sly-miR172d.5-5p	Solyc11g009080.1.1	2.5	18.726	1	23	322	344	AAUGCAGCAUCAUCAAGAUUCAC	GAGAAGCUUGGUGAGGCUGCAUU	Tradução
sly-miR172d.5-5p	Solyc05g013250.1.1	3.0	16.991	1	20	1114	1133	AAUGCAGCAUCAUCAAGAUU	CAUUUUUGAUGAUGCUGUAUC	Clivagem
sly-miR172d.5-5p	Solyc02g061810.2.1	3.0	18.39	1	20	192	211	AAUGCAGCAUCAUCAAGAUU	AGUGUUGGUGAUGCUGCAUC	Clivagem
sly-miR172d.5-5p	Solyc07g045380.2.1	3.0	11.698	1	20	1588	1607	AAUGCAGCAUCAUCAAGAUU	AAUGUUGAUGAUGCUAUAUU	Clivagem
sly-miR172d.5-5p	Solyc01g079070.2.1	2.5	23.626	1	24	75	97	AAUGCAGCAUCAUCAAGAUUCACA	UCUAGAUCUUGAUG-UGCUGCAUU	Tradução
sly-miR172d.5-5p	Solyc08g008480.2.1	3.0	19.421	1	20	606	625	AAUGCAGCAUCAUCAAGAUU	AGUGUUGAAGAUGUUGCAUU	Clivagem
sly-miR172d.6-3p	Solyc11g072600.1.1	1.0	12.706	1	22	1278	1299	UGGGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCA	Clivagem
sly-miR172d.6-3p	Solyc03g044300.2.1	1.5	16.384	1	22	1374	1395	UGGGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCCCC	Clivagem
sly-miR172d.6-3p	Solyc02g093150.2.1	1.5	15.929	1	22	1562	1583	UGGGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCCCU	Clivagem
sly-miR172d.6-3p	Solyc02g064960.2.1	1.5	15.721	1	22	1734	1755	UGGGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCCCU	Clivagem
sly-miR172d.6-3p	Solyc04g049800.2.1	2.0	8.926	1	22	1107	1128	UGGGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCU	Clivagem
sly-miR172d.6-3p	Solyc09g007260.2.1	3.0	12.601	1	22	1513	1534	UGGGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCGCU	Clivagem
sly-miR172d.6-3p	Solyc06g075510.2.1	2.5	14.962	1	21	1513	1533	UGGGAAUCUUGAUGAUGCUGC	GCAGCAUCAUCAGGAUUCUUC	Clivagem
sly-miR172d.6-3p	Solyc09g007700.2.1	2.5	2.997	1	20	50	69	UGGGAAUCUUGAUGAUGCUG	CAUCAUCAUCAAGAUUCUC	Clivagem
sly-miR172d.6-3p	Solyc01g111440.2.1	2.5	12.559	1	22	9298	9319	UGGGAAUCUUGAUGAUGCUGCA	UUCAGCAUCCUCGAGGUUCCUA	Clivagem
sly-miR172d.6-3p	Solyc01g096240.2.1	3.0	10.629	1	20	238	257	UGGGAAUCUUGAUGAUGCUG	CAAUGUCAUCAAGAUUCUUA	Clivagem
sly-miR172d.6-3p	Solyc07g032400.1.1	3.0	22.569	1	22	66	87	UGGGAAUCUUGAUGAUGCUGCA	UACAGUAUCAGCAAAAUUCUCA	Clivagem
sly-miR172d.6-3p	Solyc01g105610.1.1	3.0	12.612	1	20	624	643	UGGGAAUCUUGAUGAUGCUG	CAUUGUCAUCAAAAUUCCCA	Clivagem
sly-miR172d.6-5p	Solyc09g008550.2.1	2.0	17.706	1	22	2158	2179	UGCAACAUCAUCAAGAUUCACA	UGAGAAUCUCGAUGAUGUUGCA	Clivagem
sly-miR172d.6-5p	Solyc09g074950.2.1	1.5	13.994	1	20	1040	1059	UGCAACAUCAUCAAGAUUCA	UGAAUCUUGAUAAUGUUGUA	Tradução
sly-miR172d.6-5p	Solyc04g009720.1.1	3.0	20.089	1	21	520	540	UGCAACAUCAUCAAGAUUCAC	GUGGAUUUUGAUGGUGUUGAA	Clivagem
sly-miR172d.6-5p	Solyc11g070170.1.1	3.0	14.388	1	22	177	198	UGCAACAUCAUCAAGAUUCACA	UGUGAAUAGUGAUGAUGUUGUG	Clivagem
sly-miR172d.6-5p	Solyc02g077380.1.1	3.0	12.092	1	20	323	342	UGCAACAUCAUCAAGAUUCA	AGAGUUUUUGAUGAUGUUGCU	Clivagem
sly-miR172d.6-5p	Solyc00g017870.1.1	2.5	10.017	1	20	113	132	UGCAACAUCAUCAAGAUUCA	UGAAGCUUGAUGAUGUUGUU	Clivagem

sly-miR172d.6-5p	Solyc02g063490.2.1	2.0	21.222	1	22	226	247	UGCAACAUCAUCAAGAUUCACA	UCUGCAUCUUUAUGAUGUUGCA	Clivagem
sly-miR172d.6-5p	Solyc06g084530.2.1	2.5	15.894	1	20	1067	1086	UGCAACAUCAUCAAGAUUCA	UGAAUCUUGAUAAUGGUGCA	Tradução
sly-miR172d.6-5p	Solyc01g074030.2.1	3.0	16.066	1	20	1340	1359	UGCAACAUCAUCAAGAUUCA	CCAAUAUUGAUGAUGUUGCA	Clivagem
sly-miR172d.6-5p	Solyc01g087610.2.1	3.0	18.803	1	21	1149	1169	UGCAACAUCAUCAAGAUUCAC	GUGACUCUCGAUGGUGUUGUA	Clivagem
sly-miR172d.6-5p	Solyc12g089280.1.1	3.0	21.331	1	22	297	318	UGCAACAUCAUCAAGAUUCACA	UAUGGCUAUUGAUGGUGUUGCA	Clivagem
sly-miR172d.6-5p	Solyc04g081280.2.1	3.0	20.249	1	22	297	318	UGCAACAUCAUCAAGAUUCACA	UAUGGCUAUUGAUGGUGUUGCA	Clivagem
sly-miR172d.6-5p	Solyc10g083180.1.1	3.0	23.112	1	22	801	822	UGCAACAUCAUCAAGAUUCACA	UCUGAAGGUGGAUGAUGUUGCA	Clivagem
sly-miR172d.7-3p	Solyc09g008550.2.1	1.5	17.706	1	20	2160	2179	UGCAGCAUCAUCAAGAUUCU	AGAAUCUCGAUGAUGUUGCA	Clivagem
sly-miR172d.7-3p	Solyc02g077380.1.1	2.5	12.092	1	20	323	342	UGCAGCAUCAUCAAGAUUCU	AGAGUUUUGAUGAUGUUGCU	Clivagem
sly-miR172d.7-3p	Solyc02g078640.2.1	2.0	19.791	1	20	844	863	UGCAGCAUCAUCAAGAUUCU	AGAAUCUUGAAGAUUCUGCC	Tradução
sly-miR172d.7-3p	Solyc12g015890.1.1	2.5	17.35	1	20	29	48	UGCAGCAUCAUCAAGAUUCU	AGAGUAUUGUUGAUGCUGCA	Tradução
sly-miR172d.7-3p	Solyc04g079450.2.1	3.0	18.167	1	20	134	153	UGCAGCAUCAUCAAGAUUCU	AGAUUCUUGAUGGUGAUGCA	Clivagem
sly-miR172d.7-3p	Solyc09g089870.2.1	2.5	19.058	1	20	960	979	UGCAGCAUCAUCAAGAUUCU	GGAUUCUUUAUGAUGCUGCA	Clivagem
sly-miR172d.7-3p	Solyc09g074950.2.1	3.0	13.994	1	20	1040	1059	UGCAGCAUCAUCAAGAUUCU	UGAAUCUUGAUAAUGUUGUA	Tradução
sly-miR172d.7-3p	Solyc02g069750.1.1	3.0	12.433	1	20	226	245	UGCAGCAUCAUCAAGAUUCU	AGAAUUUAUGAUGAUGAUGCA	Clivagem
sly-miR172d.7-3p	Solyc11g009080.1.1	3.0	18.663	1	20	323	342	UGCAGCAUCAUCAAGAUUCU	AGAAGCUUGGUGAGGCUGCA	Clivagem
sly-miR172d.7-3p	Solyc08g082980.2.1	3.0	16.256	1	20	1490	1509	UGCAGCAUCAUCAAGAUUCU	GGAGUCUAGGUGAUGCUGUA	Clivagem
sly-miR172d.7-3p	Solyc03g083470.2.1	2.5	13.169	1	20	1553	1572	UGCAGCAUCAUCAAGAUUCU	ACAAUUUUGAUGAUGCUGCA	Clivagem
sly-miR172d.7-3p	Solyc02g069670.2.1	3.0	18.548	1	20	1015	1034	UGCAGCAUCAUCAAGAUUCU	AGAAUAUUGAUGAUGUUGAA	Clivagem
sly-miR172d.7-3p	Solyc07g056030.2.1	3.0	15.905	1	20	1244	1263	UGCAGCAUCAUCAAGAUUCU	AGGACCUUGAUGAGGCUGCA	Clivagem
sly-miR172d.7-3p	Solyc08g061650.2.1	3.0	15.291	1	20	2026	2045	UGCAGCAUCAUCAAGAUUCU	AGAAACUUGAUGGUGCUUCA	Clivagem
sly-miR172d.7-3p	Solyc04g008110.2.1	3.0	14.692	1	20	3096	3115	UGCAGCAUCAUCAAGAUUCU	AGAAUCUUUAUGAAGCUGUA	Clivagem
sly-miR172d.7-3p	Solyc07g056260.2.1	3.0	11.116	1	20	980	999	UGCAGCAUCAUCAAGAUUCU	AGAGUGUUGAUGAUGAUGCA	Clivagem
sly-miR172d.7-3p	Solyc10g006530.2.1	3.0	17.156	1	20	406	425	UGCAGCAUCAUCAAGAUUCU	AGAAGCUUGAAGAUUCUGUG	Tradução
sly-miR172d.7-3p	Solyc01g006080.1.1	3.0	14.764	1	20	692	711	UGCAGCAUCAUCAAGAUUCU	AUGAUCUUGAUGGUGCUGCA	Clivagem
sly-miR172d.7-3p	Solyc02g061810.2.1	3.0	17.688	1	20	190	209	UGCAGCAUCAUCAAGAUUCU	AUAGUGUUGGUGAUGCUGCA	Clivagem
sly-miR172d.7-3p	Solyc06g051990.2.1	3.0	18.035	1	20	276	295	UGCAGCAUCAUCAAGAUUCU	AGAAACUUGAGGAUGCUGUG	Tradução
sly-miR172d.7-3p	Solyc10g006340.2.1	3.0	19.182	1	20	549	568	UGCAGCAUCAUCAAGAUUCU	AGAAUCUAGAUGUUGCUGUG	Clivagem
sly-miR172d.7-3p	Solyc04g074800.2.1	3.0	21.335	1	20	402	421	UGCAGCAUCAUCAAGAUUCU	AGAAGCUUGCUGCUGCUGCA	Tradução
sly-miR172d.7-3p	Solyc04g051190.2.1	3.0	23.878	1	20	844	863	UGCAGCAUCAUCAAGAUUCU	AAAAGCUUGAUGUUGCUGCA	Clivagem
sly-miR172d.7-5p	Solyc09g008550.2.1	2.5	17.688	1	23	2158	2180	AUGCAGCAUCAUCAAGAUUCUCA	UGAGAAUCUCGAUGAUGUUGCAA	Clivagem
sly-miR172d.7-5p	Solyc05g025780.2.1	3.0	20.765	1	23	327	349	AUGCAGCAUCAUCAAGAUUCUCA	UGGGAUUCUUGAUGUUGAUGUAU	Tradução
sly-miR172d.7-5p	Solyc11g009080.1.1	2.5	18.668	1	22	322	343	AUGCAGCAUCAUCAAGAUUCUC	GAGAAGCUUGGUGAGGCUGCAU	Clivagem
sly-miR172d.7-5p	Solyc04g008110.2.1	2.5	14.922	1	22	3095	3116	AUGCAGCAUCAUCAAGAUUCUC	GAGAAUCUUUAUGAAGCUGUAU	Clivagem
sly-miR172d.7-5p	Solyc02g078640.2.1	2.5	19.829	1	21	844	864	AUGCAGCAUCAUCAAGAUUCU	AGAAUCUUGAAGAUUCUGCCU	Tradução

sly-miR172d.7-5p	Solyc06g008730.2.1	3.0	17.759	1	23	317	339	AUGCAGCAUCAUCAAGAUUCUCA	UGUUAAUUUUGAUGAUUCUGCAU	Clivagem
sly-miR172d.7-5p	Solyc05g013250.1.1	3.0	16.381	1	20	1113	1132	AUGCAGCAUCAUCAAGAUUC	UCAUUUUGAUGAUGCUGUAU	Clivagem
sly-miR172d.7-5p	Solyc02g061810.2.1	3.0	18.12	1	21	190	210	AUGCAGCAUCAUCAAGAUUCU	AUAGUGUUGGUGAUGCUGCAU	Clivagem
sly-miR172d.7-5p	Solyc02g067670.2.1	3.0	21.185	1	21	542	562	AUGCAGCAUCAUCAAGAUUCU	GGAAUUUUGCUGAUGAUGCAU	Clivagem
sly-miR172d.7-5p	Solyc09g089870.2.1	3.0	18.883	1	21	960	980	AUGCAGCAUCAUCAAGAUUCU	GGAUUCUUUAUGAUGCUGCAG	Clivagem
sly-miR172d.7-5p	Solyc09g074950.2.1	3.0	13.412	1	20	1041	1060	AUGCAGCAUCAUCAAGAUUC	GAAUCUUGAUAAUGUUGUAC	Tradução
sly-miR172d.8-3p	Solyc11g072600.1.1	0.5	12.706	1	22	1278	1299	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCA	Clivagem
sly-miR172d.8-3p	Solyc04g049800.2.1	1.5	8.926	1	22	1107	1128	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCU	Clivagem
sly-miR172d.8-3p	Solyc06g075510.2.1	2.0	14.962	1	21	1513	1533	UGAGAAUCUUGAUGAUGCUGC	GCAGCAUCAUCAGGAUUCUUC	Clivagem
sly-miR172d.8-3p	Solyc03g044300.2.1	3.0	16.384	1	22	1374	1395	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCCCC	Clivagem
sly-miR172d.8-3p	Solyc09g007260.2.1	3.0	12.601	1	22	1513	1534	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCGCU	Clivagem
sly-miR172d.8-3p	Solyc02g093150.2.1	3.0	15.929	1	22	1562	1583	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCCCU	Clivagem
sly-miR172d.8-3p	Solyc02g064960.2.1	3.0	15.721	1	22	1734	1755	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCCCU	Clivagem
sly-miR172d.8-3p	Solyc09g075970.2.1	3.0	12.391	1	20	925	944	UGAGAAUCUUGAUGAUGCUG	GUUCAUCAUCAAGAUCUCA	Clivagem
sly-miR172d.8-3p	Solyc01g096240.2.1	2.5	10.629	1	20	238	257	UGAGAAUCUUGAUGAUGCUG	CAAUGUCAUCAAGAUCUUA	Clivagem
sly-miR172d.8-3p	Solyc02g043870.1.1	3.0	15.714	1	21	547	567	UGAGAAUCUUGAUGAUGCUGC	GUUGCAUUAACCAAGAUUCUCA	Clivagem
sly-miR172d.8-3p	Solyc07g032400.1.1	2.5	22.569	1	22	66	87	UGAGAAUCUUGAUGAUGCUGCA	UACAGUAUCAGCAAAAUUCUCA	Clivagem
sly-miR172d.8-3p	Solyc05g055030.1.1	3.0	11.597	1	20	451	470	UGAGAAUCUUGAUGAUGCUG	AAUUUUUAUCAAGAUCUCA	Clivagem
sly-miR172d.8-3p	Solyc09g072830.2.1	3.0	14.047	1	20	331	350	UGAGAAUCUUGAUGAUGCUG	CAUCAUCAUCAGGAUUUUC	Clivagem
sly-miR172d.8-3p	Solyc01g079330.2.1	3.0	16.398	1	22	2324	2344	UGAGAAUCUUGAUGAUGCUGCA	UGCUGCAUCAUCAA-AUUCUCA	Clivagem
sly-miR172d.8-3p	Solyc03g031810.2.1	3.0	12.895	1	23	159	181	UGAGAAUCUUGAUGAUGCUGCAU	AUUCAGCUACAACAAGAUUCUCA	Clivagem
sly-miR172d.8-3p	Solyc02g081690.1.1	3.0	19.623	1	20	772	791	UGAGAAUCUUGAUGAUGCUG	CAGUGGCAUCAAGAUCUUG	Clivagem
sly-miR172d.8-3p	Solyc09g014220.2.1	3.0	18.939	1	20	1626	1645	UGAGAAUCUUGAUGAUGCUG	CAGCAUCAUCAACUUUUUCA	Clivagem
sly-miR172d.8-3p	Solyc01g006950.2.1	3.0	24.005	1	20	152	171	UGAGAAUCUUGAUGAUGCUG	GAUCAUGAUCAAGAUUCUCA	Clivagem
sly-miR172d.8-3p	Solyc11g012550.1.1	3.0	11.383	1	20	394	413	UGAGAAUCUUGAUGAUGCUG	AAGAAUGAUCAAGAUUCUCA	Clivagem
sly-miR172d.8-3p	Solyc11g012540.1.1	3.0	12.838	1	20	379	398	UGAGAAUCUUGAUGAUGCUG	AAGAAUGAUCAAGAUUCUCA	Clivagem
sly-miR172d.8-3p	Solyc04g077360.2.1	3.0	13.198	1	22	1814	1835	UGAGAAUCUUGAUGAUGCUGCA	UAUAUCUUCAUCAAGAUUCUG	Clivagem
sly-miR172d.8-3p	Solyc01g067010.2.1	3.0	6.486	1	20	136	155	UGAGAAUCUUGAUGAUGCUG	CAUCAUCAUUGAAUUCUCA	Clivagem
sly-miR172d.8-3p	Solyc03g034130.2.1	3.0	19.644	1	20	555	574	UGAGAAUCUUGAUGAUGCUG	CAACUUCAUCAAUUUCUCA	Clivagem
sly-miR172d.8-3p	Solyc03g034120.2.1	3.0	20.034	1	20	596	615	UGAGAAUCUUGAUGAUGCUG	CAACUUCAUCAAUUUCUCA	Clivagem
sly-miR172d.8-3p	Solyc10g079460.1.1	3.0	3.548	1	20	1459	1478	UGAGAAUCUUGAUGAUGCUG	CAUCAUCAUCAUUCUCA	Tradução
sly-miR172d.8-5p	Solyc09g008550.2.1	2.5	17.706	1	22	2158	2179	UGCAGCAUCAUCAAGAUUCACA	UGAGAAUCUCGAUGAUGUUGCA	Clivagem
sly-miR172d.8-5p	Solyc06g008730.2.1	3.0	17.647	1	22	317	338	UGCAGCAUCAUCAAGAUUCACA	UGUUAAUUUUGAUGAUUCUGCA	Clivagem
sly-miR172d.8-5p	Solyc09g074950.2.1	2.0	13.994	1	20	1040	1059	UGCAGCAUCAUCAAGAUUCA	UGAAUCUUGAUAAUGUUGUA	Tradução
sly-miR172d.8-5p	Solyc06g084530.2.1	2.5	15.894	1	20	1067	1086	UGCAGCAUCAUCAAGAUUCA	UGAAUCUUGAUAAUGGUGCA	Tradução

sly-miR172d.8-5p	Solyc00g017870.1.1	3.0	10.017	1	20	113	132	UGCAGCAUCAUCAAGAUUCA	UGAAGCUUGAUGAUUUGUU	Clivagem
sly-miR172d.8-5p	Solyc02g063490.2.1	2.5	21.222	1	22	226	247	UGCAGCAUCAUCAAGAUUCACA	UCUGCAUCUUUAUGAUGUUGCA	Clivagem
sly-miR172d.8-5p	Solyc02g078640.2.1	3.0	19.791	1	20	844	863	UGCAGCAUCAUCAAGAUUCA	AGAAUCUUGAAGAUGCUGCC	Tradução
sly-miR172d.8-5p	Solyc02g014350.2.1	3.0	18.24	1	20	2703	2722	UGCAGCAUCAUCAAGAUUCA	UUGAUCUUGAUGAUGCUGUU	Clivagem
sly-miR172d.8-5p	Solyc02g069380.2.1	3.0	21.748	1	21	739	759	UGCAGCAUCAUCAAGAUUCAC	GUCAAACUGGAUGAUGCUGCA	Clivagem
sly-miR172d.8-5p	Solyc09g089870.2.1	3.0	19.058	1	20	960	979	UGCAGCAUCAUCAAGAUUCA	GGAUUCUUUAUGAUGCUGCA	Clivagem
sly-miR172d.8-5p	Solyc08g080200.2.1	3.0	22.294	1	22	803	824	UGCAGCAUCAUCAAGAUUCACA	UAUGAGCCUUGGUGCUGCUGCA	Clivagem
sly-miR172d.8-5p	Solyc07g055080.2.1	3.0	19.45	1	20	545	564	UGCAGCAUCAUCAAGAUUCA	UGGAGCUCGAUGAUGCUGUA	Clivagem
sly-miR172d.9-3p	Solyc11g072600.1.1	0.5	12.706	1	22	1278	1299	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCA	Clivagem
sly-miR172d.9-3p	Solyc04g049800.2.1	1.5	8.926	1	22	1107	1128	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUCU	Clivagem
sly-miR172d.9-3p	Solyc06g075510.2.1	2.0	14.962	1	21	1513	1533	UGAGAAUCUUGAUGAUGCUGC	GCAGCAUCAUCAGGAUUCUUC	Clivagem
sly-miR172d.9-3p	Solyc03g044300.2.1	3.0	16.384	1	22	1374	1395	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUUUU	Clivagem
sly-miR172d.9-3p	Solyc09g007260.2.1	3.0	12.601	1	22	1513	1534	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCGCU	Clivagem
sly-miR172d.9-3p	Solyc02g093150.2.1	3.0	15.929	1	22	1562	1583	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUUUU	Clivagem
sly-miR172d.9-3p	Solyc02g064960.2.1	3.0	15.721	1	22	1734	1755	UGAGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCUUUU	Clivagem
sly-miR172d.9-3p	Solyc09g075970.2.1	3.0	12.391	1	20	925	944	UGAGAAUCUUGAUGAUGCUG	GUUCAUCAUCAAGAUUCUCA	Clivagem
sly-miR172d.9-3p	Solyc01g096240.2.1	2.5	10.629	1	20	238	257	UGAGAAUCUUGAUGAUGCUG	CAAUGUCAUCAAGAUUCUUA	Clivagem
sly-miR172d.9-3p	Solyc02g043870.1.1	3.0	15.714	1	21	547	567	UGAGAAUCUUGAUGAUGCUGC	GUUGCAUUAACCAAGAUUCUCA	Clivagem
sly-miR172d.9-3p	Solyc07g032400.1.1	2.5	22.569	1	22	66	87	UGAGAAUCUUGAUGAUGCUGCA	UACAGUAUCAGCAAAAUUCUCA	Clivagem
sly-miR172d.9-3p	Solyc05g055030.1.1	3.0	11.597	1	20	451	470	UGAGAAUCUUGAUGAUGCUG	AAUUAUUUAUCAAGAUUCUCA	Clivagem
sly-miR172d.9-3p	Solyc09g072830.2.1	3.0	14.047	1	20	331	350	UGAGAAUCUUGAUGAUGCUG	CAUCAUCAUCAGGAUUUUCC	Clivagem
sly-miR172d.9-3p	Solyc01g079330.2.1	3.0	16.398	1	22	2324	2344	UGAGAAUCUUGAUGAUGCUGCA	UGCUGCAUCAUCAAA-AUUCUCA	Clivagem
sly-miR172d.9-3p	Solyc02g081690.1.1	3.0	19.623	1	20	772	791	UGAGAAUCUUGAUGAUGCUG	CAGUGGCAUCAAGAUUCUUG	Clivagem
sly-miR172d.9-3p	Solyc09g014220.2.1	3.0	18.939	1	20	1626	1645	UGAGAAUCUUGAUGAUGCUG	CAGCAUCAUCAACUUUUUCA	Clivagem
sly-miR172d.9-3p	Solyc01g006950.2.1	3.0	24.005	1	20	152	171	UGAGAAUCUUGAUGAUGCUG	GAUCAUGAUCAAGAUUCUCA	Clivagem
sly-miR172d.9-3p	Solyc11g012550.1.1	3.0	11.383	1	20	394	413	UGAGAAUCUUGAUGAUGCUG	AAGAAUGAUCAAGAUUCUCA	Clivagem
sly-miR172d.9-3p	Solyc11g012540.1.1	3.0	12.838	1	20	379	398	UGAGAAUCUUGAUGAUGCUG	AAGAAUGAUCAAGAUUCUCA	Clivagem
sly-miR172d.9-3p	Solyc04g077360.2.1	3.0	13.198	1	22	1814	1835	UGAGAAUCUUGAUGAUGCUGCA	UAUAUCUUCAUCAAGAUUCUG	Clivagem
sly-miR172d.9-3p	Solyc01g067010.2.1	3.0	6.486	1	20	136	155	UGAGAAUCUUGAUGAUGCUG	CAUCAUCAUUGAAAUUCUCA	Clivagem
sly-miR172d.9-3p	Solyc03g031810.2.1	3.0	12.895	1	22	160	181	UGAGAAUCUUGAUGAUGCUGCA	UUCAGCUACAACAAGAUUCUCA	Clivagem
sly-miR172d.9-3p	Solyc03g034130.2.1	3.0	19.644	1	20	555	574	UGAGAAUCUUGAUGAUGCUG	CAACUUCAUCAAUUUCUCA	Clivagem
sly-miR172d.9-3p	Solyc03g034120.2.1	3.0	20.034	1	20	596	615	UGAGAAUCUUGAUGAUGCUG	CAACUUCAUCAAUUUCUCA	Clivagem
sly-miR172d.9-3p	Solyc10g079460.1.1	3.0	3.548	1	20	1459	1478	UGAGAAUCUUGAUGAUGCUG	CAUCAUCAUCAAUUUCUCA	Tradução
sly-miR172d.9-5p	Solyc02g078640.2.1	2.0	19.791	1	20	844	863	UGCAGCAUCUUCAAGAUUCA	AGAAUCUUGAAGAUGCUGCC	Clivagem
sly-miR172d.9-5p	Solyc10g017600.2.1	3.0	15.296	1	22	156	177	UGCAGCAUCUUCAAGAUUCACA	UGUGAAGCUUGAAAAUGCUGCC	Tradução

sly-miR172d.9-5p	Solyc01g093970.2.1	3.0	13.858	1	22	308	329	UGCAGCAUCUUAAGAUUCACA	UGUGAAGCUUGAAAAUGCUGCC	Tradução
sly-miR172d.9-5p	Solyc10g006530.2.1	3.0	17.156	1	22	404	425	UGCAGCAUCUUAAGAUUCACA	UGAGAAGCUUGAAGAUGCUGUG	Clivagem
sly-miR172d.9-5p	Solyc04g071270.1.1	3.0	15.06	1	21	859	879	UGCAGCAUCUUAAGAUUCAC	GUGAAUGUUGAAGAUGUUGUU	Clivagem
sly-miR172d.9-5p	Solyc08g078940.1.1	3.0	14.848	1	22	273	294	UGCAGCAUCUUAAGAUUCACA	UUUGGAUCUUGAAGCUGCUGUU	Clivagem
sly-miR172d.9-5p	Solyc03g121930.2.1	3.0	15.362	1	20	813	832	UGCAGCAUCUUAAGAUUCA	UGAAUUUUUGGAUUAUGUUGCG	Tradução
sly-miR172d.9-5p	Solyc06g062850.2.1	3.0	14.362	1	20	796	815	UGCAGCAUCUUAAGAUUCA	UGAAUUUUUGGAUUAUGCUGUG	Tradução
sly-miR172d.9-5p	Solyc01g056850.2.1	3.0	16.191	1	22	955	976	UGCAGCAUCUUAAGAUUCACA	UCUGAAUCUAAAAGGUGUUGCA	Clivagem
sly-miR172d.9-5p	Solyc09g074950.2.1	3.0	13.994	1	20	1040	1059	UGCAGCAUCUUAAGAUUCA	UGAAUCUUGAUAAUGUUGUA	Tradução
sly-miR172j.1-5p	Solyc09g011020.2.1	1.5	17.408	1	20	895	914	GCAGCAUCAUCAAGAUUCCC	GGGAAUUUUUGAUGAUGCUGA	Clivagem
sly-miR172j.1-5p	Solyc09g008550.2.1	2.5	17.657	1	21	2158	2178	GCAGCAUCAUCAAGAUUCCCA	UGAGAAUCUCGAUGAUGUUGC	Clivagem
sly-miR172j.1-5p	Solyc10g081240.1.1	2.5	21.747	1	20	388	407	GCAGCAUCAUCAAGAUUCCC	GGGAGUUUUGAUGGUGCUGC	Clivagem
sly-miR172j.1-5p	Solyc05g047420.2.1	2.0	17.508	1	20	520	539	GCAGCAUCAUCAAGAUUCCC	GGUAAUCUUGUUGAUGCUGC	Tradução
sly-miR172j.1-5p	Solyc08g082980.2.1	2.5	16.309	1	20	1489	1508	GCAGCAUCAUCAAGAUUCCC	GGGAGUCUAGGUGAUGCUGU	Clivagem
sly-miR172j.1-5p	Solyc02g091120.2.1	2.5	18.607	1	20	2907	2926	GCAGCAUCAUCAAGAUUCCC	GGUGAUCUUGGUGAUGUUGC	Clivagem
sly-miR172j.1-5p	Solyc02g078640.2.1	3.0	19.508	1	20	843	862	GCAGCAUCAUCAAGAUUCCC	AAGAAUCUUGAAGAUGCUGC	Tradução
sly-miR172j.1-5p	Solyc01g105510.2.1	3.0	22.32	1	20	1536	1555	GCAGCAUCAUCAAGAUUCCC	GGGAAUUAUGAUGAUGCAGU	Clivagem
sly-miR172j.1-5p	Solyc04g082610.2.1	3.0	22.237	1	20	1606	1625	GCAGCAUCAUCAAGAUUCCC	GGGAAUUUUGAUGGUGUUGU	Clivagem
sly-miR172j.1-5p	Solyc09g089870.2.1	3.0	19.328	1	20	959	978	GCAGCAUCAUCAAGAUUCCC	UGGAUUCUUUAUGAUGCUGC	Tradução
sly-miR172j.2-3p	Solyc04g049800.2.1	2.0	11.4	1	20	1106	1125	GAAUCUUGAUGAUGUUGCAU	CUGCAGCAUCAUCAGGAUUC	Clivagem
sly-miR172j.2-3p	Solyc10g084340.1.1	2.0	14.928	1	20	1241	1260	GAAUCUUGAUGAUGUUGCAU	CUGCAGCAUCAUCAGGAUUC	Clivagem
sly-miR172j.2-3p	Solyc11g072600.1.1	2.0	12.724	1	20	1277	1296	GAAUCUUGAUGAUGUUGCAU	CUGCAGCAUCAUCAGGAUUC	Clivagem
sly-miR172j.2-3p	Solyc03g044300.2.1	2.0	14.797	1	20	1373	1392	GAAUCUUGAUGAUGUUGCAU	CUGCAGCAUCAUCAGGAUUC	Clivagem
sly-miR172j.2-3p	Solyc09g007260.2.1	2.0	10.954	1	20	1512	1531	GAAUCUUGAUGAUGUUGCAU	CUGCAGCAUCAUCAGGAUUC	Clivagem
sly-miR172j.2-3p	Solyc02g093150.2.1	2.0	16.129	1	20	1561	1580	GAAUCUUGAUGAUGUUGCAU	CUGCAGCAUCAUCAGGAUUC	Clivagem
sly-miR172j.2-3p	Solyc02g064960.2.1	2.0	16.957	1	20	1733	1752	GAAUCUUGAUGAUGUUGCAU	CUGCAGCAUCAUCAGGAUUC	Clivagem
sly-miR172j.2-3p	Solyc06g075510.2.1	3.0	14.883	1	20	1511	1530	GAAUCUUGAUGAUGUUGCAU	CGGCAGCAUCAUCAGGAUUC	Clivagem
sly-miR172j.2-3p	Solyc01g090460.2.1	2.5	18.67	1	20	342	361	GAAUCUUGAUGAUGUUGCAU	AUGCAUCAUCAAGUUUC	Clivagem
sly-miR172j.2-3p	Solyc01g096170.2.1	2.5	9.55	1	20	2505	2524	GAAUCUUGAUGAUGUUGCAU	GUACAACAUCAUCAAGUUU	Clivagem
sly-miR172j.2-3p	Solyc01g044520.1.1	3.0	20.246	1	20	165	184	GAAUCUUGAUGAUGUUGCAU	AAGCAACAUCAUCAAGGUGC	Clivagem
sly-miR172j.2-3p	Solyc02g064540.1.1	3.0	14.198	1	20	912	931	GAAUCUUGAUGAUGUUGCAU	AUGCAUAAUUCGAGGUUC	Clivagem
sly-miR172j.2-3p	Solyc07g063770.2.1	2.5	21.63	1	20	1864	1883	GAAUCUUGAUGAUGUUGCAU	AUGUAUCUUCAUCAAGAUUC	Clivagem
sly-miR172j.2-3p	Solyc10g006710.2.1	2.5	17.992	1	20	1876	1895	GAAUCUUGAUGAUGUUGCAU	AUGUACCUUCAUCAAGAUUC	Clivagem
sly-miR172j.2-3p	Solyc05g012280.2.1	3.0	16.337	1	20	252	271	GAAUCUUGAUGAUGUUGCAU	AUCCAGCAUUUUAAGAUUC	Tradução
sly-miR172j.2-3p	Solyc01g073870.2.1	3.0	18.481	1	20	1588	1607	GAAUCUUGAUGAUGUUGCAU	AUGCAACAGGGUCAAGGUUC	Tradução
sly-miR172j.2-3p	Solyc09g014190.1.1	3.0	16.832	1	20	364	383	GAAUCUUGAUGAUGUUGCAU	AUGAAACAUGAUGAAGAUUC	Tradução

sly-miR172j.2-3p	Solyc06g083410.2.1	3.0	7.491	1	20	805	824	GAAUCUUGAUGAUGUUGCAU	AAGCAACACAAUCAAGAUUC	Tradução
sly-miR172j.2-5p	Solyc09g011020.2.1	1.5	17.408	1	20	895	914	GCAGCAUCAUCAAGAUUCCC	GGGAAUUUUUGAUGAUGCUGA	Clivagem
sly-miR172j.2-5p	Solyc09g008550.2.1	2.5	17.657	1	21	2158	2178	GCAGCAUCAUCAAGAUUCCCA	UGAGAAUCUCGAUGAUGUUGC	Clivagem
sly-miR172j.2-5p	Solyc10g081240.1.1	2.5	21.747	1	20	388	407	GCAGCAUCAUCAAGAUUCCC	GGGAGUUUAGAUGGUGCUGC	Clivagem
sly-miR172j.2-5p	Solyc05g047420.2.1	2.0	17.508	1	20	520	539	GCAGCAUCAUCAAGAUUCCC	GGUAAUCUUGUUGAUGCUGC	Tradução
sly-miR172j.2-5p	Solyc08g082980.2.1	2.5	16.309	1	20	1489	1508	GCAGCAUCAUCAAGAUUCCC	GGGAGUCUAGGUGAUGCUGU	Clivagem
sly-miR172j.2-5p	Solyc02g091120.2.1	2.5	18.607	1	20	2907	2926	GCAGCAUCAUCAAGAUUCCC	GGUGAUCUUGGUGAUGUUGC	Clivagem
sly-miR172j.2-5p	Solyc02g078640.2.1	3.0	19.508	1	20	843	862	GCAGCAUCAUCAAGAUUCCC	AAGAAUCUUGAAGAUGCUGC	Tradução
sly-miR172j.2-5p	Solyc01g105510.2.1	3.0	22.32	1	20	1536	1555	GCAGCAUCAUCAAGAUUCCC	GGGAAUUAUGAUGACAGU	Clivagem
sly-miR172j.2-5p	Solyc04g082610.2.1	3.0	22.237	1	20	1606	1625	GCAGCAUCAUCAAGAUUCCC	GGGAAUUUUGAUGGUGUUGU	Clivagem
sly-miR172j.2-5p	Solyc09g089870.2.1	3.0	19.328	1	20	959	978	GCAGCAUCAUCAAGAUUCCC	UGGAUUCUUUAUGAUGCUGC	Tradução
sly-miR1886a-3p	Solyc04g077610.2.1	3.0	22.122	1	24	1028	1050	AUGGUUUCGUGAGAUGAAUACAGC	GCUGAUUUCAUCUCACGA-AUCAU	Clivagem
sly-miR1886a-3p	Solyc01g094550.2.1	3.0	13.67	1	22	1704	1725	AUGGUUUCGUGAGAUGAAUACA	UGAUUUUGAUCUCAAGAUUCAU	Tradução
sly-miR1886a-3p	Solyc11g005080.1.1	3.0	8.394	1	23	46	68	AUGGUUUCGUGAGAUGAAUACAG	UUUGUUUCAUCCCAUGAUACCAG	Clivagem
sly-miR1886a-3p	Solyc06g065360.2.1	3.0	14.263	1	21	2127	2147	AUGGUUUCGUGAGAUGAAUAC	GAUUUCAGCUAAUGAUGCCA	Tradução
sly-miR1886a-3p	Solyc07g009520.1.1	3.0	12.363	1	20	504	523	AUGGUUUCGUGAGAUGAAUAC	AUGUGAUCUCACGAUACCAG	Clivagem
sly-miR1886a-3p	Solyc01g005190.1.1	3.0	7.552	1	20	461	481	AUGGUUUCGUGAGAUGAAUAC	AUUUCAACUCACGAUACCAU	Clivagem
sly-miR1886h.1-5p	Solyc12g094670.1.1	2.5	12.476	1	20	206	225	AUUUUACGUUGAUUUUCAUCU	UGAUGAAAUCAACGGAAAAU	Clivagem
sly-miR1886h.1-5p	Solyc11g020620.1.1	3.0	15.08	1	21	260	280	AUUUUACGUUGAUUUUCAUCUC	GAGAUGAGAUCAAAGUAGAAA	Clivagem
sly-miR1886h.1-5p	Solyc02g067650.1.1	2.5	10.928	1	20	579	598	AUUUUACGUUGAUUUUCAUCU	AGAUGGAAUUAUGUAAAAU	Tradução
sly-miR1886h.1-5p	Solyc02g067640.2.1	2.5	17.637	1	20	579	598	AUUUUACGUUGAUUUUCAUCU	AGAUGGAAUUAUGUAAAAU	Tradução
sly-miR1886h.1-5p	Solyc02g067630.2.1	2.5	13.012	1	20	579	598	AUUUUACGUUGAUUUUCAUCU	AGAUGGAAUUAUGUAAAAU	Tradução
sly-miR1886h.1-5p	Solyc11g020660.1.1	3.0	14.658	1	20	216	235	AUUUUACGUUGAUUUUCAUCU	AGAUGAGAUCAAAGUAGAAA	Clivagem
sly-miR1886h.1-5p	Solyc03g097670.2.1	3.0	19.411	1	20	1904	1923	AUUUUACGUUGAUUUUCAUCU	AGAUGAGGUCAAGGUGAGAU	Clivagem
sly-miR1886h.1-5p	Solyc02g082340.2.1	3.0	10.832	1	20	79	98	AUUUUACGUUGAUUUUCAUCU	CGACGAAAUCAAAGUAAAAU	Clivagem
sly-miR1886h.1-5p	Solyc02g089630.2.1	3.0	18.393	1	20	1770	1789	AUUUUACGUUGAUUUUCAUCU	AGGUCUAAUUAACGUAAAAU	Clivagem
sly-miR1886h.2-3p	Solyc12g094670.1.1	2.5	12.476	1	20	206	225	AUUUUACGUUGAUUUUCAUCU	UGAUGAAAUCAACGGAAAAU	Clivagem
sly-miR1886h.2-3p	Solyc11g020620.1.1	3.0	15.08	1	21	260	280	AUUUUACGUUGAUUUUCAUCUC	GAGAUGAGAUCAAAGUAGAAA	Clivagem
sly-miR1886h.2-3p	Solyc02g067650.1.1	2.5	10.928	1	20	579	598	AUUUUACGUUGAUUUUCAUCU	AGAUGGAAUUAUGUAAAAU	Tradução
sly-miR1886h.2-3p	Solyc02g067640.2.1	2.5	17.637	1	20	579	598	AUUUUACGUUGAUUUUCAUCU	AGAUGGAAUUAUGUAAAAU	Tradução
sly-miR1886h.2-3p	Solyc02g067630.2.1	2.5	13.012	1	20	579	598	AUUUUACGUUGAUUUUCAUCU	AGAUGGAAUUAUGUAAAAU	Tradução
sly-miR1886h.2-3p	Solyc11g020660.1.1	3.0	14.658	1	20	216	235	AUUUUACGUUGAUUUUCAUCU	AGAUGAGAUCAAAGUAGAAA	Clivagem
sly-miR1886h.2-3p	Solyc03g097670.2.1	3.0	19.411	1	20	1904	1923	AUUUUACGUUGAUUUUCAUCU	AGAUGAGGUCAAGGUGAGAU	Clivagem
sly-miR1886h.2-3p	Solyc02g082340.2.1	3.0	10.832	1	20	79	98	AUUUUACGUUGAUUUUCAUCU	CGACGAAAUCAAAGUAAAAU	Clivagem
sly-miR1886h.2-3p	Solyc02g089630.2.1	3.0	18.393	1	20	1770	1789	AUUUUACGUUGAUUUUCAUCU	AGGUCUAAUUAACGUAAAAU	Clivagem

sly-miR1917.1-5p	Solyc02g071710.2.1	0.5	14.446	1	21	1215	1235	AUUAAUAAAGAGUGCUGAAAGU	AUUUUAGCACUCUUUAUUAAU	Clivagem
sly-miR1917.1-5p	Solyc01g087190.2.1	2.0	12.942	1	21	911	931	AUUAAUAAAGAGUGCUGAAAGU	ACUUUAUUUUCUUUAUUAAU	Clivagem
sly-miR1917.1-5p	Solyc09g009090.2.1	2.5	17.804	1	20	2656	2675	AUUAAUAAAGAGUGCUGAAAG	AUUUGGCAUUCUUUGUAAU	Clivagem
sly-miR1917.1-5p	Solyc07g054930.2.1	2.5	11.904	1	20	1124	1143	AUUAAUAAAGAGUGCUGAAAG	UUUUAGCAGUUUUUGUAAU	Clivagem
sly-miR1917.1-5p	Solyc11g010550.1.1	3.0	12.88	1	20	938	957	AUUAAUAAAGAGUGCUGAAAG	CGUUGGCACUUUUUAUUGGU	Clivagem
sly-miR1917.1-5p	Solyc01g066450.2.1	3.0	15.78	1	20	154	173	AUUAAUAAAGAGUGCUGAAAG	CUUUAGUCCUCUUUAUUCAU	Clivagem
sly-miR1917.1-5p	Solyc04g056400.2.1	3.0	10.537	1	20	1105	1124	AUUAAUAAAGAGUGCUGAAAG	CUUUAGUAUCUUUUUGUAAU	Tradução
sly-miR1917.1-5p	Solyc07g044790.2.1	3.0	13.095	1	20	1405	1424	AUUAAUAAAGAGUGCUGAAAG	CUAUAGCGCUGUUUAUUGAU	Tradução
sly-miR1917.1-5p	Solyc05g024410.2.1	3.0	14.599	1	20	1145	1164	AUUAAUAAAGAGUGCUGAAAG	CUUCAGUACUGUUUAUUGAU	Tradução
sly-miR1917.2-5p	Solyc02g071710.2.1	0.5	14.446	1	21	1215	1235	AUUAAUAAAGAGUGCUGAAAGU	AUUUUAGCACUCUUUAUUAAU	Clivagem
sly-miR1917.2-5p	Solyc01g087190.2.1	2.0	12.942	1	21	911	931	AUUAAUAAAGAGUGCUGAAAGU	ACUUUAUUUUCUUUAUUAAU	Clivagem
sly-miR1917.2-5p	Solyc09g009090.2.1	2.5	17.804	1	20	2656	2675	AUUAAUAAAGAGUGCUGAAAG	AUUUGGCAUUCUUUGUAAU	Clivagem
sly-miR1917.2-5p	Solyc07g054930.2.1	2.5	11.904	1	20	1124	1143	AUUAAUAAAGAGUGCUGAAAG	UUUUAGCAGUUUUUGUAAU	Clivagem
sly-miR1917.2-5p	Solyc11g010550.1.1	3.0	12.88	1	20	938	957	AUUAAUAAAGAGUGCUGAAAG	CGUUGGCACUUUUUAUUGGU	Clivagem
sly-miR1917.2-5p	Solyc01g066450.2.1	3.0	15.78	1	20	154	173	AUUAAUAAAGAGUGCUGAAAG	CUUUAGUCCUCUUUAUUCAU	Clivagem
sly-miR1917.2-5p	Solyc04g056400.2.1	3.0	10.537	1	20	1105	1124	AUUAAUAAAGAGUGCUGAAAG	CUUUAGUAUCUUUUUGUAAU	Tradução
sly-miR1917.2-5p	Solyc07g044790.2.1	3.0	13.095	1	20	1405	1424	AUUAAUAAAGAGUGCUGAAAG	CUAUAGCGCUGUUUAUUGAU	Tradução
sly-miR1917.2-5p	Solyc05g024410.2.1	3.0	14.599	1	20	1145	1164	AUUAAUAAAGAGUGCUGAAAG	CUUCAGUACUGUUUAUUGAU	Tradução
sly-miR1918-5p	Solyc10g045620.1.1	1.5	17.386	1	22	23	44	UGUUGGUGAGAGUUCGAUUCUC	GGGAAUCGAUCCUCACCAACA	Tradução
sly-miR1918-5p	Solyc01g095820.2.1	1.5	21.676	1	21	554	574	UGUUGGUGAGAGUUCGAUUCU	GGAAUCGAACUCUCACGAACA	Clivagem
sly-miR1918-5p	Solyc10g054110.1.1	2.5	15.325	1	21	71	91	UGUUGGUGAGAGUUCGAUUCU	GGAAUCGAACUCUUGUCAUG	Clivagem
sly-miR1918-5p	Solyc01g105180.2.1	3.0	17.409	1	22	1433	1454	UGUUGGUGAGAGUUCGAUUCUC	GGCAAUUGAACCCUCAUCAACA	Tradução
sly-miR1918-5p	Solyc01g107000.1.1	3.0	10.961	1	21	582	602	UGUUGGUGAGAGUUCGAUUCU	GGAAUGGAAUUUCAUCAACA	Clivagem
sly-miR2111a-5p	Solyc07g009410.2.1	1.0	14.519	1	20	42	61	UAAUCUGCAUCCUGAGGUUU	CAACCUCAGGAUGCAGAUUA	Clivagem
sly-miR2111a-5p	Solyc02g091920.2.1	3.0	17.142	1	20	229	248	UAAUCUGCAUCCUGAGGUUU	AAAACUCAGGAUGUGGAUUU	Clivagem
sly-miR2111a-5p	Solyc03g121880.2.1	3.0	17.772	1	20	936	955	UAAUCUGCAUCCUGAGGUUU	GGAUCUCAGGUUGCGAUUA	Tradução
sly-miR2111a-5p	Solyc04g012070.1.1	3.0	10.7	1	20	1029	1048	UAAUCUGCAUCCUGAGGUUU	AGACCCUAUGAUGCAGAUUA	Clivagem
sly-miR2111a-5p	Solyc03g112600.2.1	3.0	17.75	1	20	202	221	UAAUCUGCAUCCUGAGGUUU	AAAGUUCAGGUUGCAGAUUG	Tradução
sly-miR2604-5p	Solyc06g064490.2.1	2.0	23.319	1	21	432	452	UAAUUUUUAUGUGGAAGUGUU	GGCACUCCAUUAUGAGAAUUA	Clivagem
sly-miR2604-5p	Solyc11g044570.1.1	3.0	17.983	1	21	432	452	UAAUUUUUAUGUGGAAGUGUU	AAUGCUUCCAUUAAGAAAUUC	Clivagem
sly-miR2604-5p	Solyc10g005020.2.1	2.5	9.683	1	20	11	30	UAAUUUUUAUGUGGAAGUGU	UCGCUUUCAUUAUUUUUA	Clivagem
sly-miR2604-5p	Solyc08g062860.2.1	2.5	14.233	1	20	1413	1432	UAAUUUUUAUGUGGAAGUGU	AUACUUCUGAUUAAGAAUUA	Clivagem
sly-miR2604-5p	Solyc12g098700.1.1	3.0	18.298	1	21	1388	1408	UAAUUUUUAUGUGGAAGUGUU	AGAACUUCUACAUAGAAGUUA	Clivagem
sly-miR2604-5p	Solyc01g108020.2.1	3.0	9.423	1	20	680	699	UAAUUUUUAUGUGGAAGUGU	CUACUUCUACUUAUUUUUA	Tradução
sly-miR2604-5p	Solyc09g074040.1.1	3.0	15.846	1	20	442	461	UAAUUUUUAUGUGGAAGUGU	AUGCUUCCACAAAGAGAUUA	Tradução

sly-miR2604-5p	Solyc05g006780.2.1	3.0	11.595	1	20	2038	2057	UAAUUUUUAUGUGGAAGUGU	ACACUCCACAGAAUAAUUG	Tradução
sly-miR2604-5p	Solyc05g006550.2.1	3.0	18.434	1	20	1035	1054	UAAUUUUUAUGUGGAAGUGU	AAGUUUCCACAUAAAGAUUG	Clivagem
sly-miR2604-5p	Solyc04g005070.2.1	3.0	14.682	1	21	43	63	UAAUUUUUAUGUGGAAGUGUU	GACACUCAGACAUAAAAUUUA	Clivagem
sly-miR2604-5p	Solyc06g005930.1.1	3.0	8.351	1	20	1407	1426	UAAUUUUUAUGUGGAAGUGU	AGAAUUCGACAUAAAAUUUA	Clivagem
sly-miR319.1-3p	Solyc01g100650.2.1	2.0	14.531	1	21	1990	2010	UUGGACUGAAGGGUUUCCUUC	GAAGGGAACUUUUUAGUCCAA	Clivagem
sly-miR319.1-3p	Solyc08g048390.1.1	1.5	14.031	1	20	1015	1034	UUGGACUGAAGGGUUUCCUU	AGGGGGACCCUUCAGUCCAA	Clivagem
sly-miR319.1-3p	Solyc08g048370.2.1	1.5	14.608	1	20	805	824	UUGGACUGAAGGGUUUCCUU	AGGGGGACCCUUCAGUCCAA	Clivagem
sly-miR319.1-3p	Solyc03g119020.2.1	2.0	21.577	1	21	56	76	UUGGACUGAAGGGUUUCCUUC	GAAGGAAACUGUUUAGUCCAA	Tradução
sly-miR319.1-3p	Solyc07g053410.2.1	1.5	13.671	1	20	755	774	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAA	Clivagem
sly-miR319.1-3p	Solyc10g008780.1.1	2.5	10.497	1	21	1575	1595	UUGGACUGAAGGGUUUCCUUC	GAGGGAACCCCUUCAGUCCAC	Clivagem
sly-miR319.1-3p	Solyc12g014140.1.1	2.5	13.801	1	21	906	926	UUGGACUGAAGGGUUUCCUUC	GAGGGGACCCCUUCAGUCCAG	Clivagem
sly-miR319.1-3p	Solyc07g062680.1.1	2.5	11.86	1	21	939	959	UUGGACUGAAGGGUUUCCUUC	GAGGGGACCCCUUCAGUCCAG	Clivagem
sly-miR319.1-3p	Solyc01g088160.2.1	2.5	16.388	1	21	1542	1562	UUGGACUGAAGGGUUUCCUUC	GGAGGAAACACUUUGGUCCAA	Clivagem
sly-miR319.1-3p	Solyc05g012840.1.1	2.0	12.967	1	20	616	635	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAG	Clivagem
sly-miR319.1-3p	Solyc02g077250.2.1	2.0	13.488	1	20	898	917	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAG	Clivagem
sly-miR319.1-3p	Solyc02g072470.2.1	3.0	18.054	1	21	2725	2745	UUGGACUGAAGGGUUUCCUUC	GAAGGAAAUGUUCAGUCCAA	Tradução
sly-miR319.1-3p	Solyc10g011690.2.1	3.0	16.274	1	20	1552	1571	UUGGACUGAAGGGUUUCCUU	AGGGAAAUCCUACAGUCUGA	Tradução
sly-miR319.1-3p	Solyc08g078520.2.1	3.0	14.303	1	20	1386	1405	UUGGACUGAAGGGUUUCCUU	AAGGCAACUCAUGAUUCAA	Tradução
sly-miR319.1-3p	Solyc08g075340.2.1	3.0	13.439	1	20	474	493	UUGGACUGAAGGGUUUCCUU	AAGCAGAACCUUCAGUCAA	Clivagem
sly-miR319.1-5p	Solyc12g099250.1.1	2.0	23.215	1	20	569	588	AGGAAACUGUUUAGUCCAAC	GUUGGACUGGACAGUUUCCA	Clivagem
sly-miR319.1-5p	Solyc05g054910.2.1	2.5	21.912	1	20	1897	1916	AGGAAACUGUUUAGUCCAAC	GUUGGAAUAAACAGUUUUA	Clivagem
sly-miR319.1-5p	Solyc06g048520.2.1	2.5	15.868	1	20	618	637	AGGAAACUGUUUAGUCCAAC	GGUGGAUUGAACAGUUUCUU	Clivagem
sly-miR319.1-5p	Solyc12g040470.1.1	3.0	18.802	1	20	38	57	AGGAAACUGUUUAGUCCAAC	CUUGGACUGAAGGGUUUCCU	Tradução
sly-miR319.1-5p	Solyc03g119020.2.1	3.0	15.851	1	20	214	233	AGGAAACUGUUUAGUCCAAC	CUUGGACUGAAGGGUUUCCU	Tradução
sly-miR319.1-5p	Solyc02g069900.1.1	2.5	18.206	1	20	273	292	AGGAAACUGUUUAGUCCAAC	GUUGGAUCAACCAGUUUCCU	Tradução
sly-miR319.1-5p	Solyc06g051260.2.1	2.5	16.06	1	20	128	147	AGGAAACUGUUUAGUCCAAC	GUUGGUCUCAACAGUUUUCU	Clivagem
sly-miR319.1-5p	Solyc09g014160.1.1	3.0	16.132	1	20	344	363	AGGAAACUGUUUAGUCCAAC	GUCGGACUAAUUCGUUUUCU	Clivagem
sly-miR319.1-5p	Solyc01g081410.2.1	3.0	14.324	1	20	1066	1084	AGGAAACUGUUUAGUCCAAC	GUUGGACUAG-CAGUUUUCU	Tradução
sly-miR319.2-3p	Solyc01g100650.2.1	2.0	14.531	1	21	1990	2010	UUGGACUGAAGGGUUUCCUUC	GAAGGGAACUUUUUAGUCCAA	Clivagem
sly-miR319.2-3p	Solyc08g048390.1.1	1.5	14.031	1	20	1015	1034	UUGGACUGAAGGGUUUCCUU	AGGGGGACCCUUCAGUCCAA	Clivagem
sly-miR319.2-3p	Solyc08g048370.2.1	1.5	14.608	1	20	805	824	UUGGACUGAAGGGUUUCCUU	AGGGGGACCCUUCAGUCCAA	Clivagem
sly-miR319.2-3p	Solyc03g119020.2.1	2.0	21.577	1	21	56	76	UUGGACUGAAGGGUUUCCUUC	GAAGGAAACUGUUUAGUCCAA	Tradução
sly-miR319.2-3p	Solyc07g053410.2.1	1.5	13.671	1	20	755	774	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAA	Clivagem
sly-miR319.2-3p	Solyc10g008780.1.1	2.5	10.497	1	21	1575	1595	UUGGACUGAAGGGUUUCCUUC	GAGGGAACCCCUUCAGUCCAC	Clivagem
sly-miR319.2-3p	Solyc12g014140.1.1	2.5	13.801	1	21	906	926	UUGGACUGAAGGGUUUCCUUC	GAGGGGACCCCUUCAGUCCAG	Clivagem

sly-miR319.2-3p	Solyc07g062680.1.1	2.5	11.86	1	21	939	959	UUGGACUGAAGGGUUUCCUUC	GAGGGGACCCCUUCAGUCCAG	Clivagem
sly-miR319.2-3p	Solyc01g088160.2.1	2.5	16.388	1	21	1542	1562	UUGGACUGAAGGGUUUCCUUC	GGAGGAAACACUUUGGUCCAA	Clivagem
sly-miR319.2-3p	Solyc05g012840.1.1	2.0	12.967	1	20	616	635	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAG	Clivagem
sly-miR319.2-3p	Solyc02g077250.2.1	2.0	13.488	1	20	898	917	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAG	Clivagem
sly-miR319.2-3p	Solyc02g072470.2.1	3.0	18.054	1	21	2725	2745	UUGGACUGAAGGGUUUCCUUC	GAAGGAAAUGUUCAGUCCAA	Tradução
sly-miR319.2-3p	Solyc10g011690.2.1	3.0	16.274	1	20	1552	1571	UUGGACUGAAGGGUUUCCUU	AGGGAAAUCCUACAGUCUGA	Tradução
sly-miR319.2-3p	Solyc08g078520.2.1	3.0	14.303	1	20	1386	1405	UUGGACUGAAGGGUUUCCUU	AAGGCAACUCAUCAGUCCAA	Tradução
sly-miR319.2-3p	Solyc08g075340.2.1	3.0	13.439	1	20	474	493	UUGGACUGAAGGGUUUCCUU	AAGCAGAACCUUCAGUCCAA	Clivagem
sly-miR319.2-5p	Solyc06g054380.2.1	1.5	17.59	1	20	586	605	GCUGCUGAAUCAUUGGUUCA	UGAAUCCAUGAUUCAGCAGC	Clivagem
sly-miR319.2-5p	Solyc07g063300.2.1	2.5	19.786	1	20	728	747	GCUGCUGAAUCAUUGGUUCA	CUAAUCAUUGAUUCAGCAGC	Clivagem
sly-miR319.2-5p	Solyc12g088500.1.1	2.5	15.491	1	20	57	76	GCUGCUGAAUCAUUGGUUCA	AGAAGCAAUGGUUCAGCAGC	Clivagem
sly-miR319.2-5p	Solyc12g088520.1.1	2.5	16.997	1	20	57	76	GCUGCUGAAUCAUUGGUUCA	AGAAGCAAUGGUUCAGCAGC	Clivagem
sly-miR319.2-5p	Solyc12g088470.1.1	2.5	19.367	1	20	72	91	GCUGCUGAAUCAUUGGUUCA	AGAAGCAAUGGUUCAGCAGC	Clivagem
sly-miR319.2-5p	Solyc12g088530.1.1	3.0	20.531	1	20	57	76	GCUGCUGAAUCAUUGGUUCA	AGAAGCAAUGGUUCAGCAGU	Clivagem
sly-miR319.2-5p	Solyc08g078340.2.1	3.0	19.439	1	20	910	930	GCUGCUGAA-UCAUUGGUUCA	UGAAUCAUUGGGUUCAGCAGC	Tradução
sly-miR319a.1-3p	Solyc01g009070.2.1	2.5	23.404	1	20	956	975	UUGGACUGAAGGGAGCUCCC	UGGAGCUCCCUUCACUCCAA	Clivagem
sly-miR319a.1-3p	Solyc02g079010.2.1	2.5	22.293	1	20	383	402	UUGGACUGAAGGGAGCUCCC	CGGAGCUUCAUUCAGUCCAA	Tradução
sly-miR319a.1-3p	Solyc03g113840.1.1	3.0	16.67	1	20	946	965	UUGGACUGAAGGGAGCUCCC	GGGAGAUUUCUUCAGUCCAU	Clivagem
sly-miR319a.1-3p	Solyc08g014020.2.1	3.0	16.541	1	21	513	533	UUGGACUGAAGGGAGCUCCCU	GGGGUGCUCCCUUAAGUUUAA	Clivagem
sly-miR319a.1-3p	Solyc07g053410.2.1	3.0	13.671	1	21	755	774	UUGGACUGAAGGGAGCUCCCU	AGGGAAC-CCCUUCAGUCCAA	Clivagem
sly-miR319a.1-5p	Solyc04g005540.2.1	3.0	22.348	1	20	2378	2397	GAGCUCUCUCCGGUCCAGUC	GAUUCAACCGGAGAGGCUC	Clivagem
sly-miR319a.2-3p	Solyc01g009070.2.1	2.5	23.404	1	20	956	975	UUGGACUGAAGGGAGCUCCC	UGGAGCUCCCUUCACUCCAA	Clivagem
sly-miR319a.2-3p	Solyc02g079010.2.1	2.5	22.293	1	20	383	402	UUGGACUGAAGGGAGCUCCC	CGGAGCUUCAUUCAGUCCAA	Tradução
sly-miR319a.2-3p	Solyc03g113840.1.1	3.0	16.67	1	20	946	965	UUGGACUGAAGGGAGCUCCC	GGGAGAUUUCUUCAGUCCAU	Clivagem
sly-miR319a.2-3p	Solyc08g014020.2.1	3.0	16.541	1	21	513	533	UUGGACUGAAGGGAGCUCCCU	GGGGUGCUCCCUUAAGUUUAA	Clivagem
sly-miR319a.2-3p	Solyc07g053410.2.1	3.0	13.671	1	21	755	774	UUGGACUGAAGGGAGCUCCCU	AGGGAAC-CCCUUCAGUCCAA	Clivagem
sly-miR319a.2-5p	Solyc04g080110.2.1	2.5	15.773	1	21	183	203	AGAGCUUCCUUUAGUCCACUC	GAGUGGAUUGAGGAAGCUUG	Clivagem
sly-miR319a.2-5p	Solyc04g080060.2.1	2.5	16.023	1	21	440	460	AGAGCUUCCUUUAGUCCACUC	GAGUGGAUUGAGGAAGCUUG	Clivagem
sly-miR319a.2-5p	Solyc01g109080.2.1	3.0	17.778	1	21	9356	9376	AGAGCUUCCUUUAGUCCACUC	GAGUGAGUUGAAGGAGGCUCU	Clivagem
sly-miR319a.2-5p	Solyc03g082840.2.1	2.5	24.272	1	20	335	354	AGAGCUUCCUUUAGUCCACU	ACUGGACUGAAGGGGGCUCU	Clivagem
sly-miR319a.2-5p	Solyc12g100250.1.1	3.0	19.822	1	21	846	866	AGAGCUUCCUUUAGUCCACUC	GAGUUGGCUAAAAGGAGCUCU	Tradução
sly-miR319a.2-5p	Solyc06g054620.2.1	3.0	17.925	1	20	1096	1115	AGAGCUUCCUUUAGUCCACU	AGUGGAUCAAGGCAGCUCU	Clivagem
sly-miR319a.2-5p	Solyc03g113080.2.1	2.5	17.767	1	20	759	777	AGAGCUUCCUUUAGUCCACU	AGUGG-CUGAAGGAAGCUCU	Clivagem
sly-miR319a.2-5p	Solyc07g024000.2.1	3.0	24.095	1	20	704	723	AGAGCUUCCUUUAGUCCACU	AGGGGACUAGGGAAAGCUCU	Clivagem
sly-miR319a.2-5p	Solyc08g081050.2.1	3.0	13.877	1	20	1573	1592	AGAGCUUCCUUUAGUCCACU	AAUGAGCUAAAGGAAGCUUU	Clivagem

sly-miR319a.2-5p	Solyc10g047050.1.1	3.0	20.448	1	20	172	191	AGAGCUUCCUUUAGUCCACU	AGUGCACUAGUGGAGGCUCU	Tradução
sly-miR319a.2-5p	Solyc01g006330.2.1	3.0	14.776	1	20	209	228	AGAGCUUCCUUUAGUCCACU	AAUGGACUAAUUGAAGCUCU	Tradução
sly-miR319a.2-5p	Solyc03g117420.2.1	3.0	23.837	1	20	1414	1432	AGAGCUUCCUUUAGUCCACU	AGUGGUCUAAAG-AAGCUCU	Clivagem
sly-miR319c.1-3p	Solyc01g009070.2.1	2.5	23.404	1	20	956	975	UUGGACUGAAGGGAGCUCCU	UGGAGCUCCCUUCACUCCAA	Clivagem
sly-miR319c.1-3p	Solyc02g079010.2.1	2.5	22.293	1	20	383	402	UUGGACUGAAGGGAGCUCCU	CGGAGCUUCAUUCAGUCCAA	Tradução
sly-miR319c.1-3p	Solyc08g048390.1.1	2.5	14.031	1	20	1015	1034	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAA	Clivagem
sly-miR319c.1-3p	Solyc08g048370.2.1	2.5	14.608	1	20	805	824	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAA	Clivagem
sly-miR319c.1-3p	Solyc12g014140.1.1	3.0	13.801	1	20	907	926	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAG	Clivagem
sly-miR319c.1-3p	Solyc07g062680.1.1	3.0	11.86	1	20	940	959	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAG	Clivagem
sly-miR319c.1-3p	Solyc11g007960.1.1	3.0	13.682	1	20	1256	1275	UUGGACUGAAGGGAGCUCCU	AGGAGCUUCAGUCAGUUCAA	Tradução
sly-miR319c.1-3p	Solyc08g069010.2.1	3.0	18.318	1	20	947	966	UUGGACUGAAGGGAGCUCCU	AGGAUCUCAUUUCAGUUCAA	Clivagem
sly-miR319c.2-3p	Solyc01g009070.2.1	2.5	23.404	1	20	956	975	UUGGACUGAAGGGAGCUCCU	UGGAGCUCCCUUCACUCCAA	Clivagem
sly-miR319c.2-3p	Solyc02g079010.2.1	2.5	22.293	1	20	383	402	UUGGACUGAAGGGAGCUCCU	CGGAGCUUCAUUCAGUCCAA	Tradução
sly-miR319c.2-3p	Solyc11g007960.1.1	3.0	13.682	1	21	1255	1275	UUGGACUGAAGGGAGCUCCUU	AAGGAGCUUCAGUCAGUUCAA	Tradução
sly-miR319c.2-3p	Solyc08g048390.1.1	2.5	14.031	1	20	1015	1034	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAA	Clivagem
sly-miR319c.2-3p	Solyc08g048370.2.1	2.5	14.608	1	20	805	824	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAA	Clivagem
sly-miR319c.2-3p	Solyc12g014140.1.1	3.0	13.801	1	21	906	926	UUGGACUGAAGGGAGCUCCUU	GAGGGGGACCCUUCAGUCCAG	Clivagem
sly-miR319c.2-3p	Solyc07g062680.1.1	3.0	11.86	1	21	939	959	UUGGACUGAAGGGAGCUCCUU	GAGGGGGACCCUUCAGUCCAG	Clivagem
sly-miR319c.2-3p	Solyc08g069010.2.1	3.0	18.318	1	20	947	966	UUGGACUGAAGGGAGCUCCU	AGGAUCUCAUUUCAGUUCAA	Clivagem
sly-miR319c.2-5p	Solyc01g109080.2.1	2.0	17.778	1	21	9356	9376	AGAGCUUCCUUCAGCCCACUC	GAGUGAGUUGAAGGAGGCUCU	Clivagem
sly-miR319c.2-5p	Solyc06g051760.2.1	3.0	21.251	1	21	1988	2008	AGAGCUUCCUUCAGCCCACUC	GAUUGGGUUGAAGGAAGUUCG	Clivagem
sly-miR319c.2-5p	Solyc01g094050.1.1	2.5	16.605	1	20	1829	1848	AGAGCUUCCUUCAGCCCACU	AGUUGGCUGAAGAAAGUUCU	Clivagem
sly-miR319c.2-5p	Solyc03g082840.2.1	3.0	24.272	1	20	335	354	AGAGCUUCCUUCAGCCCACU	ACUGGACUGAAGGGGGCUCU	Clivagem
sly-miR319c.3-3p	Solyc01g009070.2.1	2.5	21.371	1	20	957	976	CUUGGACUGAAGGGAGCUCC	GGAGCUCCCUUCACUCCAAA	Clivagem
sly-miR319c.3-3p	Solyc02g079010.2.1	2.5	20.949	1	20	384	403	CUUGGACUGAAGGGAGCUCC	GGAGCUUCAUUCAGUCCAAA	Clivagem
sly-miR319c.3-3p	Solyc11g007960.1.1	3.0	14.162	1	20	1257	1276	CUUGGACUGAAGGGAGCUCC	GGAGCUUCAGUCAGUUCAAAG	Tradução
sly-miR319c.3-5p	Solyc04g080110.2.1	3.0	14.929	1	20	183	202	GAGCUUUCUUUAGUCCACAC	GAGUGGAUUAGAGGAAGCUU	Clivagem
sly-miR319c.3-5p	Solyc04g080060.2.1	3.0	16.445	1	20	440	459	GAGCUUUCUUUAGUCCACAC	GAGUGGAUUAGAGGAAGCUU	Clivagem
sly-miR319c.3-5p	Solyc09g009800.2.1	3.0	16.135	1	20	3314	3333	GAGCUUUCUUUAGUCCACAC	GUGUAGACUGGGGAAAGCUU	Clivagem
sly-miR319c.3-5p	Solyc07g065980.2.1	3.0	18.499	1	20	330	349	GAGCUUUCUUUAGUCCACAC	GUGUGGCUGAAAGAAAGCUU	Clivagem
sly-miR319c.3-5p	Solyc08g021810.1.1	3.0	15.581	1	20	1350	1369	GAGCUUUCUUUAGUCCACAC	GUUAGACUAAAAAAGCUC	Clivagem
sly-miR3627-3p	Solyc09g090870.2.1	3.0	12.67	1	21	2152	2172	AAGUGCCUCUGUCUUUCGACA	UGUCAGGACACAGAGGCACUU	Clivagem
sly-miR3627-3p	Solyc07g055870.2.1	3.0	21.86	1	20	1375	1394	AAGUGCCUCUGUCUUUCGAC	GUUGGAAGGCAUGGGCACUU	Tradução
sly-miR3627-5p	Solyc09g075090.1.1	2.5	15.212	1	22	631	652	UUGUCGCAGGAGAGAUGGCACU	AAUGCCUUUUCUCGUGCGACAA	Tradução
sly-miR3627-5p	Solyc09g075760.2.1	3.0	16.803	1	20	701	720	UUGUCGCAGGAGAGAUGGCA	UGCUCUCUUUCUUGCGGCAA	Clivagem

sly-miR3627-5p	Solyc12g088340.1.1	3.0	22.609	1	22	451	472	UUGUCGCAGGAGAGAUGGCACU	ACUGCCAUGUCUCCGGUGGCAA	Clivagem
sly-miR3627-5p	Solyc09g009640.2.1	3.0	15.017	1	20	482	501	UUGUCGCAGGAGAGAUGGCA	UCCCAUUUACCUGUGACAA	Tradução
sly-miR390a-3p	Solyc08g080050.2.1	3.0	16.946	1	21	567	587	CGCUAUCCAUCCUGAGUUUCA	UGAAACUUAAGAUGGAUGGCA	Clivagem
sly-miR390a-3p	Solyc08g066500.2.1	3.0	13.901	1	20	39	58	CGCUAUCCAUCCUGAGUUUC	CAAAUUUGGGAUGGAUAGUG	Clivagem
sly-miR390a-3p	Solyc08g066810.2.1	3.0	12.559	1	20	134	153	CGCUAUCCAUCCUGAGUUUC	CAAAUUCAAGAUGGAUAGUG	Clivagem
sly-miR390a-5p	Solyc04g005390.1.1	2.5	21.739	1	21	823	843	AAGCUCAGGAGGGAUAGCGCC	GGUGUGAUCCCUUCUGAGCUU	Clivagem
sly-miR390a-5p	Solyc01g091230.2.1	3.0	16.127	1	21	510	530	AAGCUCAGGAGGGAUAGCGCC	GGUGUUUUUCCUCCUGAGGUU	Clivagem
sly-miR390a-5p	Solyc04g079120.2.1	2.5	18.491	1	20	598	617	AAGCUCAGGAGGGAUAGCGC	GUGCUAUUCCUCCUGAUCUU	Clivagem
sly-miR390a-5p	Solyc09g091900.2.1	3.0	18.731	1	21	581	601	AAGCUCAGGAGGGAUAGCGCC	GUCGCUAUCCUCCUCAGCUU	Clivagem
sly-miR390a-5p	Solyc09g091850.2.1	3.0	19.674	1	21	1919	1939	AAGCUCAGGAGGGAUAGCGCC	GGCGCUAUUCCUCAUGAUCUU	Clivagem
sly-miR390a-5p	Solyc04g015600.2.1	3.0	12.104	1	21	988	1008	AAGCUCAGGAGGGAUAGCGCC	GGAACUAUUCCUCCUGAGUUU	Clivagem
sly-miR390b-3p	Solyc00g052940.2.1	3.0	16.981	1	21	86	106	CGCUAUCCAUCCUGAGUUUUA	UAAAACGCAGGAUGGAGAGUG	Clivagem
sly-miR390b-3p	Solyc08g066500.2.1	3.0	13.901	1	20	39	58	CGCUAUCCAUCCUGAGUUUU	CAAAUUUGGGAUGGAUAGUG	Clivagem
sly-miR390b-3p	Solyc08g066810.2.1	3.0	12.559	1	20	134	153	CGCUAUCCAUCCUGAGUUUU	CAAAUUCAAGAUGGAUAGUG	Clivagem
sly-miR390b-3p	Solyc09g090660.2.1	2.5	14.037	1	20	1843	1862	CGCUAUCCAUCCUGAGUUUU	AAAACUCUGAAUGGAUAGUG	Tradução
sly-miR390b-3p	Solyc01g086640.2.1	3.0	16.859	1	20	1034	1053	CGCUAUCCAUCCUGAGUUUU	AAAGCUUAGGAGGGAUUGGUG	Tradução
sly-miR390b-5p	Solyc04g005390.1.1	2.0	21.739	1	21	823	843	AAGCUCAGGAGGGAUAGCACC	GGUGUGAUCCCUUCUGAGCUU	Clivagem
sly-miR390b-5p	Solyc01g091230.2.1	2.5	16.127	1	21	510	530	AAGCUCAGGAGGGAUAGCACC	GGUGUUUUUCCUCCUGAGGUU	Clivagem
sly-miR390b-5p	Solyc04g079120.2.1	2.0	18.491	1	20	598	617	AAGCUCAGGAGGGAUAGCAC	GUGCUAUUCCUCCUGAUCUU	Clivagem
sly-miR390b-5p	Solyc07g056410.2.1	3.0	19.518	1	21	821	841	AAGCUCAGGAGGGAUAGCACC	GGUGCAAUCCUCCUGAGAUU	Clivagem
sly-miR390b-5p	Solyc01g100890.2.1	3.0	22.648	1	20	406	425	AAGCUCAGGAGGGAUAGCAC	UUGCUGUCCUUUCUGGGCUU	Clivagem
sly-miR390b-5p	Solyc06g036720.2.1	3.0	20.054	1	21	1006	1026	AAGCUCAGGAGGGAUAGCACC	GGUGCUAUGCUACUUGAGCUU	Tradução
sly-miR390b-5p	Solyc04g015600.2.1	3.0	12.104	1	21	988	1008	AAGCUCAGGAGGGAUAGCACC	GGAACUAUUCCUCCUGAGUUU	Clivagem
sly-miR390b-5p	Solyc01g011040.2.1	3.0	16.235	1	20	724	743	AAGCUCAGGAGGGAUAGCAC	UUGCUAAUCUCCUGAGCUU	Clivagem
sly-miR393a-3p	Solyc02g077690.2.1	3.0	14.597	1	20	1290	1309	AUCAUGCGAUCUCUUCGGAA	UUCCUAAAAGAUUGUAUGAU	Clivagem
sly-miR393a-5p	Solyc06g008780.1.1	2.0	20.001	1	20	1293	1312	UCCAAAGGGAUCGCAUUGAU	GACAAUGCGAUCCCUUUGGA	Clivagem
sly-miR393a-5p	Solyc09g074520.2.1	2.0	18.205	1	20	1678	1697	UCCAAAGGGAUCGCAUUGAU	GACAAUGCGAUCCCUUUGGA	Clivagem
sly-miR393a-5p	Solyc02g079190.2.1	2.0	19.316	1	22	1607	1628	UCCAAAGGGAUCGCAUUGAUCC	GAAUCAAUUGCGGUGUCUUUGGA	Tradução
sly-miR393a-5p	Solyc06g008470.1.1	3.0	15.888	1	20	148	167	UCCAAAGGGAUCGCAUUGAU	GACCAUGCGAUCCCUUUGGA	Clivagem
sly-miR393a-5p	Solyc05g015070.2.1	3.0	16.936	1	22	1426	1447	UCCAAAGGGAUCGCAUUGAUCC	GUGUCAAGGUGGUUCCUUUGGA	Clivagem
sly-miR393a-5p	Solyc03g007140.2.1	3.0	21.191	1	20	697	716	UCCAAAGGGAUCGCAUUGAU	GUAGAUGUGUCCCUUUGGA	Clivagem
sly-miR393a-5p	Solyc07g063500.2.1	3.0	20.886	1	22	665	686	UCCAAAGGGAUCGCAUUGAUCC	GUAUCCAUGCGAAUCCUUUGGG	Tradução
sly-miR393a-5p	Solyc07g063450.1.1	3.0	18.584	1	22	665	686	UCCAAAGGGAUCGCAUUGAUCC	GUAUCCAUGCGAAUCCUUUGGG	Tradução
sly-miR394a-5p	Solyc05g015520.2.1	1.0	18.464	1	20	1248	1267	UUGGCAUUCUGUCCACCUC	GGAGGUUGACAGAAUGCCAA	Clivagem
sly-miR394a-5p	Solyc11g070010.1.1	3.0	14.328	1	20	27	46	UUGGCAUUCUGUCCACCUC	GGAUGUGGAUGGAGUGCUAA	Clivagem

sly-miR394a-5p	Solyc12g009100.1.1	3.0	16.3	1	20	975	994	UUGGCAUUCUGUCCACCUC	GGAGCUGGAAAGGAUGUCA	Tradução
sly-miR394a-5p	Solyc05g014760.2.1	3.0	15.211	1	20	787	806	UUGGCAUUCUGUCCACCUC	GGAAGUGAAUAGAAUGUCA	Clivagem
sly-miR394b-5p	Solyc05g015520.2.1	1.0	18.464	1	20	1248	1267	UUGGCAUUCUGUCCACCUC	GGAGGUUGACAGAAUGCCAA	Clivagem
sly-miR394b-5p	Solyc11g070010.1.1	3.0	14.328	1	20	27	46	UUGGCAUUCUGUCCACCUC	GGAUGUGGAUGGAGUGCUAA	Clivagem
sly-miR394b-5p	Solyc12g009100.1.1	3.0	16.3	1	20	975	994	UUGGCAUUCUGUCCACCUC	GGAGCUGGAAAGGAUGUCA	Tradução
sly-miR394b-5p	Solyc05g014760.2.1	3.0	15.211	1	20	787	806	UUGGCAUUCUGUCCACCUC	GGAAGUGAAUAGAAUGUCA	Clivagem
sly-miR395a.1-5p	Solyc11g066140.1.1	1.5	12.894	1	20	989	1008	CUGAAGUGUUUGGGGGAACU	AGUUCUCCAAACACUUCAA	Clivagem
sly-miR395a.1-5p	Solyc04g054730.2.1	2.0	13.578	1	21	246	266	CUGAAGUGUUUGGGGGAACUC	GAGUUCUCCGGAACACUUCAG	Clivagem
sly-miR395a.1-5p	Solyc03g005260.2.1	3.0	16.384	1	21	430	450	CUGAAGUGUUUGGGGGAACUC	GAGUUCUCCAAACUCUUCAU	Clivagem
sly-miR395a.1-5p	Solyc09g082860.2.1	3.0	22.654	1	21	477	497	CUGAAGUGUUUGGGGGAACUC	GAGUUCUCCAAACUCUUCAU	Clivagem
sly-miR395a.1-5p	Solyc06g075970.2.1	3.0	5.802	1	20	1047	1066	CUGAAGUGUUUGGGGGAACU	UGUUCUCCAAACACUUCAA	Clivagem
sly-miR395a.1-5p	Solyc01g110700.2.1	2.5	13.914	1	20	45047	45066	CUGAAGUGUUUGGGGGAACU	AGCUUCUCAAACACUUCAG	Clivagem
sly-miR395a.1-5p	Solyc01g111180.2.1	2.5	13.914	1	20	14413	14432	CUGAAGUGUUUGGGGGAACU	AGCUUCUCAAACACUUCAG	Clivagem
sly-miR395a.1-5p	Solyc06g082560.1.1	3.0	18.646	1	20	255	274	CUGAAGUGUUUGGGGGAACU	AGUUCCACCAAGUACUUCAC	Clivagem
sly-miR395a.1-5p	Solyc08g066140.2.1	3.0	8.145	1	20	664	683	CUGAAGUGUUUGGGGGAACU	AGUUUCACCAAAAAUUUCAG	Clivagem
sly-miR395a.2-5p	Solyc11g066140.1.1	1.5	12.894	1	20	989	1008	CUGAAGUGUUUGGGGGAACU	AGUUCUCCAAACACUUCAA	Clivagem
sly-miR395a.2-5p	Solyc04g054730.2.1	2.0	13.578	1	21	246	266	CUGAAGUGUUUGGGGGAACUC	GAGUUCUCCGGAACACUUCAG	Clivagem
sly-miR395a.2-5p	Solyc03g005260.2.1	3.0	16.384	1	21	430	450	CUGAAGUGUUUGGGGGAACUC	GAGUUCUCCAAACUCUUCAU	Clivagem
sly-miR395a.2-5p	Solyc09g082860.2.1	3.0	22.654	1	21	477	497	CUGAAGUGUUUGGGGGAACUC	GAGUUCUCCAAACUCUUCAU	Clivagem
sly-miR395a.2-5p	Solyc06g075970.2.1	3.0	5.802	1	20	1047	1066	CUGAAGUGUUUGGGGGAACU	UGUUCUCCAAACACUUCAA	Clivagem
sly-miR395a.2-5p	Solyc01g110700.2.1	2.5	13.914	1	20	45047	45066	CUGAAGUGUUUGGGGGAACU	AGCUUCUCAAACACUUCAG	Clivagem
sly-miR395a.2-5p	Solyc01g111180.2.1	2.5	13.914	1	20	14413	14432	CUGAAGUGUUUGGGGGAACU	AGCUUCUCAAACACUUCAG	Clivagem
sly-miR395a.2-5p	Solyc06g082560.1.1	3.0	18.646	1	20	255	274	CUGAAGUGUUUGGGGGAACU	AGUUCCACCAAGUACUUCAC	Clivagem
sly-miR395a.2-5p	Solyc08g066140.2.1	3.0	8.145	1	22	662	683	CUGAAGUGUUUGGGGGAACUCC	GCAGUUUCACCAAAAAUUUCAG	Clivagem
sly-miR395a.3-3p	Solyc11g066140.1.1	1.5	12.894	1	20	989	1008	CUGAAGUGUUUGGGGGAACU	AGUUCUCCAAACACUUCAA	Clivagem
sly-miR395a.3-3p	Solyc04g054730.2.1	2.0	13.578	1	21	246	266	CUGAAGUGUUUGGGGGAACUC	GAGUUCUCCGGAACACUUCAG	Clivagem
sly-miR395a.3-3p	Solyc03g005260.2.1	3.0	16.384	1	21	430	450	CUGAAGUGUUUGGGGGAACUC	GAGUUCUCCAAACUCUUCAU	Clivagem
sly-miR395a.3-3p	Solyc09g082860.2.1	3.0	22.654	1	21	477	497	CUGAAGUGUUUGGGGGAACUC	GAGUUCUCCAAACUCUUCAU	Clivagem
sly-miR395a.3-3p	Solyc06g075970.2.1	3.0	5.802	1	20	1047	1066	CUGAAGUGUUUGGGGGAACU	UGUUCUCCAAACACUUCAA	Clivagem
sly-miR395a.3-3p	Solyc01g110700.2.1	2.5	13.914	1	20	45047	45066	CUGAAGUGUUUGGGGGAACU	AGCUUCUCAAACACUUCAG	Clivagem
sly-miR395a.3-3p	Solyc01g111180.2.1	2.5	13.914	1	20	14413	14432	CUGAAGUGUUUGGGGGAACU	AGCUUCUCAAACACUUCAG	Clivagem
sly-miR395a.3-3p	Solyc06g082560.1.1	3.0	18.646	1	20	255	274	CUGAAGUGUUUGGGGGAACU	AGUUCCACCAAGUACUUCAC	Clivagem
sly-miR395a.3-3p	Solyc08g066140.2.1	3.0	8.145	1	20	664	683	CUGAAGUGUUUGGGGGAACU	AGUUUCACCAAAAAUUUCAG	Clivagem
sly-miR395a.4-5p	Solyc11g066140.1.1	1.5	12.894	1	20	989	1008	CUGAAGUGUUUGGGGGAACU	AGUUCUCCAAACACUUCAA	Clivagem
sly-miR395a.4-5p	Solyc04g054730.2.1	2.0	13.578	1	21	246	266	CUGAAGUGUUUGGGGGAACUC	GAGUUCUCCGGAACACUUCAG	Clivagem

sly-miR395a.4-5p	Solyc03g005260.2.1	3.0	16.384	1	21	430	450	CUGAAGUGUUUGGGGGAACUC	GAGUUCUCCAAACUCUUCAU	Clivagem
sly-miR395a.4-5p	Solyc09g082860.2.1	3.0	22.654	1	21	477	497	CUGAAGUGUUUGGGGGAACUC	GAGUUCUCCAAACUCUUCAU	Clivagem
sly-miR395a.4-5p	Solyc06g075970.2.1	3.0	5.802	1	20	1047	1066	CUGAAGUGUUUGGGGGAACU	UGUUCUCCAAACACUUCAA	Clivagem
sly-miR395a.4-5p	Solyc01g110700.2.1	2.5	13.914	1	20	45047	45066	CUGAAGUGUUUGGGGGAACU	AGCUUCUCAAACACUUCAG	Clivagem
sly-miR395a.4-5p	Solyc01g111180.2.1	2.5	13.914	1	20	14413	14432	CUGAAGUGUUUGGGGGAACU	AGCUUCUCAAACACUUCAG	Clivagem
sly-miR395a.4-5p	Solyc06g082560.1.1	3.0	18.646	1	20	255	274	CUGAAGUGUUUGGGGGAACU	AGUUCCACCAAGUACUUCAC	Clivagem
sly-miR395a.4-5p	Solyc08g066140.2.1	3.0	8.145	1	22	662	683	CUGAAGUGUUUGGGGGAACUCC	GCAGUUUCACCAAAAAUUUCAG	Clivagem
sly-miR395g-5p	Solyc11g066140.1.1	0.5	12.894	1	20	989	1008	UUGAAGUGUUUGGGGGAACU	AGUUCCUCCAAACACUUCAA	Clivagem
sly-miR395g-5p	Solyc04g054730.2.1	1.5	13.208	1	21	300	320	UUGAAGUGUUUGGGGGAACUC	GUGUUCUCCCAAAACACUUCAA	Clivagem
sly-miR395g-5p	Solyc06g075970.2.1	2.0	5.802	1	20	1047	1066	UUGAAGUGUUUGGGGGAACU	UGUUCUCCAAACACUUCAA	Clivagem
sly-miR395g-5p	Solyc03g005260.2.1	3.0	16.384	1	21	430	450	UUGAAGUGUUUGGGGGAACUC	GAGUUCUCCAAACUCUUCAU	Clivagem
sly-miR395g-5p	Solyc09g082860.2.1	3.0	22.654	1	21	477	497	UUGAAGUGUUUGGGGGAACUC	GAGUUCUCCAAACUCUUCAU	Clivagem
sly-miR395g-5p	Solyc08g080050.2.1	3.0	14.012	1	21	359	379	UUGAAGUGUUUGGGGGAACUC	GAGUUUCUCCAAGCACUACAA	Clivagem
sly-miR395g-5p	Solyc09g011400.1.1	3.0	19.038	1	21	95	115	UUGAAGUGUUUGGGGGAACUC	GAGUUCUCUUAAGAGCUUCAA	Clivagem
sly-miR395g-5p	Solyc06g050930.2.1	2.5	14.019	1	20	2153	2172	UUGAAGUGUUUGGGGGAACU	AGUUCCCUCUGGCACUUCAA	Tradução
sly-miR395g-5p	Solyc10g080350.1.1	2.5	14.051	1	20	3193	3212	UUGAAGUGUUUGGGGGAACU	AGUUUUCUCAAACACUUCAA	Clivagem
sly-miR395g-5p	Solyc03g044910.1.1	3.0	13.111	1	21	529	549	UUGAAGUGUUUGGGGGAACUC	GAAUUCUCCCAAUCAUUUCAA	Tradução
sly-miR395g-5p	Solyc12g040640.1.1	3.0	12.053	1	21	463	483	UUGAAGUGUUUGGGGGAACUC	GAUUUACCUCUAAAGCACUUCAA	Clivagem
sly-miR395g-5p	Solyc03g115070.1.1	3.0	17.624	1	21	1154	1174	UUGAAGUGUUUGGGGGAACUC	GAAUUGCUUCAAAACACUUCAA	Clivagem
sly-miR395g-5p	Solyc06g082560.1.1	3.0	18.646	1	20	255	274	UUGAAGUGUUUGGGGGAACU	AGUUCCACCAAGUACUUCAC	Clivagem
sly-miR395g-5p	Solyc06g053330.2.1	3.0	5.068	1	20	71	90	UUGAAGUGUUUGGGGGAACU	ACUUCUCCCAACACUUAAA	Clivagem
sly-miR395g-5p	Solyc01g110700.2.1	3.0	13.914	1	20	45047	45066	UUGAAGUGUUUGGGGGAACU	AGCUUCUCAAACACUUCAG	Clivagem
sly-miR395g-5p	Solyc01g111180.2.1	3.0	13.914	1	20	14413	14432	UUGAAGUGUUUGGGGGAACU	AGCUUCUCAAACACUUCAG	Clivagem
sly-miR395g-5p	Solyc02g083070.2.1	3.0	22.169	1	20	413	432	UUGAAGUGUUUGGGGGAACU	ACUUGCCUCAAAUACUUCAA	Clivagem
sly-miR395g-5p	Solyc04g007070.2.1	3.0	11.246	1	20	1767	1786	UUGAAGUGUUUGGGGGAACU	AUUUUCUCCAAAGACUUCAA	Clivagem
sly-miR395g-5p	Solyc02g067040.2.1	3.0	14.224	1	20	405	423	UUGAAGUGUUUGGGGGAACU	AGUUUCCCCAA-CAUUUCAA	Tradução
sly-miR396a-3p	Solyc06g063080.1.1	2.5	18.494	1	20	198	217	GUUCAUAAAGCUGUGGGAA	UUCCUGCAGCUUUGUUGAAA	Clivagem
sly-miR396a-5p	Solyc04g054840.1.1	3.0	15.498	1	21	408	428	UUCCACAGCUUUCUUGAACUG	UAGUUUAAGAGAGUGGUGGAA	Clivagem
sly-miR396a-5p	Solyc03g045080.1.1	3.0	17.861	1	21	2585	2605	UUCCACAGCUUUCUUGAACUG	CAGUUUCAGGAGGUUGUGGAA	Clivagem
sly-miR396a-5p	Solyc12g088670.1.1	2.5	17.653	1	20	462	481	UUCCACAGCUUUCUUGAACU	GGAUCAAGGAAGCUGUGGGA	Clivagem
sly-miR396a-5p	Solyc06g065030.2.1	2.5	12.753	1	20	362	381	UUCCACAGCUUUCUUGAACU	AGUUUAAGAGAGAUGUGGAG	Clivagem
sly-miR396a-5p	Solyc02g062740.2.1	2.5	21.665	1	20	1151	1170	UUCCACAGCUUUCUUGAACU	GGAUCAGGAAAGCUGUGGAG	Clivagem
sly-miR396a-5p	Solyc06g007320.2.1	3.0	17.624	1	21	2284	2304	UUCCACAGCUUUCUUGAACUG	UAGAUCGAGAAAGCUGUGAAA	Clivagem
sly-miR396a-5p	Solyc12g096070.1.1	2.0	20.954	1	21	321	342	UUCCACA-GCUUUCUUGAACUG	CCGUUCAAGAAAGCAUGUGGAA	Clivagem
sly-miR396a-5p	Solyc08g075950.1.1	2.0	19.232	1	21	375	396	UUCCACA-GCUUUCUUGAACUG	CCGUUCAAGAAAGCCUGUGGAA	Clivagem

sly-miR396a-5p	Solyc07g041640.2.1	2.0	12.148	1	21	410	431	UUCCACA-GCUUUUCUUGAACUG	CCGUUCAAGAAAGCCUGUGGAA	Clivagem
sly-miR396a-5p	Solyc08g083230.1.1	2.0	10.066	1	21	480	501	UUCCACA-GCUUUUCUUGAACUG	CCGUUCAAGAAAGCCUGUGGAA	Clivagem
sly-miR396a-5p	Solyc08g005430.2.1	2.0	15.162	1	21	384	405	UUCCACA-GCUUUUCUUGAACUG	CCGUUCAAGAAAGCCUGUGGAA	Clivagem
sly-miR396a-5p	Solyc03g082430.1.1	2.0	24.453	1	21	456	477	UUCCACA-GCUUUUCUUGAACUG	CCGUUCAAGAAAGCAUGUGGAA	Clivagem
sly-miR396a-5p	Solyc01g091540.1.1	2.0	20.361	1	19	470	489	UUCCACA-GCUUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
sly-miR396a-5p	Solyc02g062750.2.1	2.5	14.655	1	20	863	882	UUCCACAGCUUUUCUUGAACU	AGAUCAAGAAAUUCUGUGGGA	Tradução
sly-miR396a-5p	Solyc02g092070.2.1	2.0	14.74	1	19	947	966	UUCCACA-GCUUUUCUUGAAC	GUUCAAGAAAGCAUGUGGAA	Clivagem
sly-miR396a-5p	Solyc04g077510.2.1	2.0	19.99	1	19	886	905	UUCCACA-GCUUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
sly-miR396a-5p	Solyc02g023950.2.1	3.0	15.766	1	20	92	111	UUCCACAGCUUUUCUUGAACU	AGUUUAAGAAAGGUGUUGAA	Clivagem
sly-miR396a-5p	Solyc06g007820.1.1	3.0	12.092	1	20	50	69	UUCCACAGCUUUUCUUGAACU	AGGUUAAGGAUGCUGUGGAA	Tradução
sly-miR396a-5p	Solyc11g013260.1.1	3.0	20.23	1	20	545	564	UUCCACAGCUUUUCUUGAACU	AGUUUUCGAAAGCUGUGGAG	Clivagem
sly-miR396a-5p	Solyc11g022540.1.1	3.0	18.864	1	20	257	276	UUCCACAGCUUUUCUUGAACU	AGUUCAAAAGAGAUGUGGAG	Clivagem
sly-miR396b-5p	Solyc12g088670.1.1	2.5	17.653	1	21	461	481	UUCCACAGCUUUUCUUGAACUU	AGGAUCAAGGAAGCUGUGGGA	Clivagem
sly-miR396b-5p	Solyc06g065030.2.1	2.5	12.753	1	21	361	381	UUCCACAGCUUUUCUUGAACUU	AAGUUUAAGAGAGAUGUGGAG	Clivagem
sly-miR396b-5p	Solyc02g062740.2.1	2.5	21.665	1	21	1150	1170	UUCCACAGCUUUUCUUGAACUU	AGGAUCAGGAAAGCUGUGGAG	Clivagem
sly-miR396b-5p	Solyc04g054840.1.1	3.0	15.498	1	20	409	428	UUCCACAGCUUUUCUUGAACU	AGUUUAAGAGAGUGGUGGAA	Clivagem
sly-miR396b-5p	Solyc06g007820.1.1	3.0	12.092	1	21	49	69	UUCCACAGCUUUUCUUGAACUU	AAGGUUAAGGAUGCUGUGGAA	Tradução
sly-miR396b-5p	Solyc02g093040.2.1	3.0	24.35	1	21	504	524	UUCCACAGCUUUUCUUGAACUU	AAAAUCAAGGGAGCUGUGGAA	Clivagem
sly-miR396b-5p	Solyc02g062750.2.1	2.5	14.655	1	21	862	882	UUCCACAGCUUUUCUUGAACUU	GAGAUCAAGAAAUUCUGUGGGA	Tradução
sly-miR396b-5p	Solyc11g022540.1.1	3.0	18.864	1	21	256	276	UUCCACAGCUUUUCUUGAACUU	AAGUUCAAAAGAGAUGUGGAG	Clivagem
sly-miR396b-5p	Solyc02g023950.2.1	3.0	15.766	1	21	91	111	UUCCACAGCUUUUCUUGAACUU	GAGUUUAAGAAAGGUGUUGAA	Clivagem
sly-miR396b-5p	Solyc01g091540.1.1	2.0	20.361	1	21	468	489	UUCCACA-GCUUUUCUUGAACUU	ACGUUCAAGAAAGCCUGUGGAA	Clivagem
sly-miR396b-5p	Solyc12g096070.1.1	2.0	20.954	1	19	323	342	UUCCACA-GCUUUUCUUGAAC	GUUCAAGAAAGCAUGUGGAA	Clivagem
sly-miR396b-5p	Solyc08g075950.1.1	2.0	19.232	1	19	377	396	UUCCACA-GCUUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
sly-miR396b-5p	Solyc07g041640.2.1	2.0	12.148	1	19	412	431	UUCCACA-GCUUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
sly-miR396b-5p	Solyc08g083230.1.1	2.0	10.066	1	19	482	501	UUCCACA-GCUUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
sly-miR396b-5p	Solyc08g005430.2.1	2.0	15.162	1	19	386	405	UUCCACA-GCUUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
sly-miR396b-5p	Solyc03g082430.1.1	2.0	24.453	1	19	458	477	UUCCACA-GCUUUUCUUGAAC	GUUCAAGAAAGCAUGUGGAA	Clivagem
sly-miR396b-5p	Solyc02g092070.2.1	2.0	14.74	1	19	947	966	UUCCACA-GCUUUUCUUGAAC	GUUCAAGAAAGCAUGUGGAA	Clivagem
sly-miR396b-5p	Solyc04g077510.2.1	2.0	19.99	1	19	886	905	UUCCACA-GCUUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
sly-miR396b-5p	Solyc03g045080.1.1	3.0	17.861	1	20	2586	2605	UUCCACAGCUUUUCUUGAACU	AGUUUCAGGAGGUUGUGGAA	Clivagem
sly-miR396b-5p	Solyc06g007320.2.1	3.0	17.624	1	20	2285	2304	UUCCACAGCUUUUCUUGAACU	AGAUUCGAGAAAGCUGUGAAA	Clivagem
sly-miR396b-5p	Solyc11g013260.1.1	3.0	20.23	1	21	544	564	UUCCACAGCUUUUCUUGAACUU	GAGUUUUCGAAAGCUGUGGAG	Clivagem
sly-miR396g.1-3p	Solyc06g068700.2.1	2.0	14.337	1	20	1457	1476	GUUCAAGAAAGCUGUGGAAA	UUUUCACAGUUUUCUUGAAG	Clivagem
sly-miR396g.1-3p	Solyc04g080850.2.1	3.0	9.764	1	21	611	631	GUUCAAGAAAGCUGUGGAAA	UUUUUUACUGCUUUUCUUGAAA	Clivagem

sly-miR396g.1-3p	Solyc05g017930.1.1	3.0	12.521	1	21	145	165	GUUCAAGAAAGCUGUGGAAAA	UUCUUCGUAGCUUUCUUGGAC	Clivagem
sly-miR396g.1-3p	Solyc01g102580.2.1	3.0	8.143	1	20	166	185	GUUCAAGAAAGCUGUGGAAA	AUUCACACAACUUUCUUGAAA	Clivagem
sly-miR396g.1-3p	Solyc01g10470.2.1	3.0	13.766	1	20	726	745	GUUCAAGAAAGCUGUGGAAA	UUUCCACACCUUUCUUGAC	Clivagem
sly-miR396g.1-3p	Solyc05g013810.2.1	3.0	15.334	1	20	1060	1079	GUUCAAGAAAGCUGUGGAAA	UUUCAAUUGCUUUCUUGGAC	Clivagem
sly-miR396g.1-3p	Solyc07g005450.2.1	3.0	14.38	1	20	1844	1863	GUUCAAGAAAGCUGUGGAAA	UUUUCACAGAUUCUCUUGAAU	Tradução
sly-miR396g.1-3p	Solyc07g005460.2.1	3.0	14.6	1	20	1902	1921	GUUCAAGAAAGCUGUGGAAA	UUUUCACAGAUUCUCUUGAAU	Tradução
sly-miR396g.1-3p	Solyc06g048860.1.1	3.0	14.366	1	19	912	931	GUUCAAGAA-AGCUGUGGAA	UUCACGCGCUAUUCUUGAAU	Tradução
sly-miR396g.1-5p	Solyc12g088670.1.1	2.5	17.653	1	20	462	481	UCCACAGCUUUUCUUGGACU	GGAUCAAGGAAGCUGUGGGA	Clivagem
sly-miR396g.1-5p	Solyc02g062750.2.1	2.5	14.655	1	20	863	882	UCCACAGCUUUUCUUGGACU	AGAUCAAGAAUUCUGUGGGA	Tradução
sly-miR396g.1-5p	Solyc01g105620.2.1	3.0	14.221	1	20	904	923	UCCACAGCUUUUCUUGGACU	AUUCAAGGAAGAUGUGGGG	Clivagem
sly-miR396g.1-5p	Solyc12g013840.1.1	3.0	18.889	1	20	2251	2270	UCCACAGCUUUUCUUGGACU	AAUACAUAAGCUGUGGGA	Clivagem
sly-miR396g.1-5p	Solyc01g106670.1.1	3.0	12.404	1	20	444	462	UCCACAGCUUUUCUUGGACU	AGUCCAAGCAA-CUGUGGGA	Tradução
sly-miR396g.2-3p	Solyc06g068700.2.1	2.0	14.337	1	20	1457	1476	GUUCAAGAAAGCUGUGGAAA	UUUUCACAGUUUUCUUGAAG	Clivagem
sly-miR396g.2-3p	Solyc04g080850.2.1	3.0	9.764	1	21	611	631	GUUCAAGAAAGCUGUGGAAAA	UUUUUUACUGCUUUCUUGAAA	Clivagem
sly-miR396g.2-3p	Solyc05g017930.1.1	3.0	12.521	1	21	145	165	GUUCAAGAAAGCUGUGGAAAA	UUCUUCGUAGCUUUCUUGGAC	Clivagem
sly-miR396g.2-3p	Solyc01g102580.2.1	3.0	8.143	1	20	166	185	GUUCAAGAAAGCUGUGGAAA	AUUCACACAACUUUCUUGAAA	Clivagem
sly-miR396g.2-3p	Solyc01g10470.2.1	3.0	13.766	1	20	726	745	GUUCAAGAAAGCUGUGGAAA	UUUCCACACCUUUCUUGAC	Clivagem
sly-miR396g.2-3p	Solyc05g013810.2.1	3.0	15.334	1	20	1060	1079	GUUCAAGAAAGCUGUGGAAA	UUUCAAUUGCUUUCUUGGAC	Clivagem
sly-miR396g.2-3p	Solyc07g005450.2.1	3.0	14.38	1	20	1844	1863	GUUCAAGAAAGCUGUGGAAA	UUUUCACAGAUUCUCUUGAAU	Tradução
sly-miR396g.2-3p	Solyc07g005460.2.1	3.0	14.6	1	20	1902	1921	GUUCAAGAAAGCUGUGGAAA	UUUUCACAGAUUCUCUUGAAU	Tradução
sly-miR396g.2-3p	Solyc06g048860.1.1	3.0	14.366	1	19	912	931	GUUCAAGAA-AGCUGUGGAA	UUCACGCGCUAUUCUUGAAU	Tradução
sly-miR396g.2-5p	Solyc12g013840.1.1	3.0	18.889	1	20	2251	2270	UCCACAGCUUUUAUUGAACC	AAUACAUAAGCUGUGGGA	Clivagem
sly-miR396g.2-5p	Solyc01g109350.2.1	2.5	19.071	1	21	796	816	UCCACAGCUUUUAUUGAACCG	UGGUACCAUAAGGCUGUGGGA	Clivagem
sly-miR396g.2-5p	Solyc02g076730.2.1	3.0	24.769	1	20	236	255	UCCACAGCUUUUAUUGAACC	GGUUUGAUGAUGUUGUGGGA	Tradução
sly-miR396g.2-5p	Solyc12g088670.1.1	2.5	17.653	1	20	462	481	UCCACAGCUUUUAUUGAACC	GGAUCAAGGAAGCUGUGGGA	Clivagem
sly-miR396g.2-5p	Solyc02g078800.2.1	3.0	22.311	1	20	238	257	UCCACAGCUUUUAUUGAACC	GGUGUAUAAGCUGUGGGA	Clivagem
sly-miR396g.2-5p	Solyc02g031980.2.1	3.0	16.506	1	20	239	258	UCCACAGCUUUUAUUGAACC	AGGUCUAUAAGCUGUGGGA	Clivagem
sly-miR397.1-3p	Solyc02g084680.2.1	3.0	20.487	1	20	335	354	CAUCAACGCUAACUCGAUC	GAUCGGUUUUGGUGAUGAUG	Clivagem
sly-miR397.1-3p	Solyc11g062250.1.1	3.0	14.47	1	20	719	738	CAUCAACGCUAACUCGAUC	GAUCGAGGGAAGCGUUGAUG	Tradução
sly-miR397.1-5p	Solyc07g049460.2.1	0.5	12.382	1	20	677	696	AUUGAGUGCAGCGUUGAUGA	UCAUCAACGCUGCGCUCAAU	Clivagem
sly-miR397.1-5p	Solyc10g076830.1.1	1.0	15.639	1	21	661	681	AUUGAGUGCAGCGUUGAUGAC	GUAUAACGCUGCACUCAAU	Clivagem
sly-miR397.1-5p	Solyc06g082240.2.1	1.0	16.686	1	21	664	684	AUUGAGUGCAGCGUUGAUGAC	GUGAUCAACGCUGCACUCAAU	Clivagem
sly-miR397.1-5p	Solyc06g048860.1.1	2.0	13.175	1	21	685	705	AUUGAGUGCAGCGUUGAUGAC	GUUAUCAAUGCUGCACUCAAC	Clivagem
sly-miR397.1-5p	Solyc05g043360.1.1	1.0	7.921	1	20	677	696	AUUGAGUGCAGCGUUGAUGA	UAAUCAACGCUGCACUCAAU	Clivagem
sly-miR397.1-5p	Solyc02g062650.2.1	1.5	17.78	1	20	770	789	AUUGAGUGCAGCGUUGAUGA	UUGUCAAUGCUGCACUCAAU	Clivagem

sly-miR397.1-5p	Solyc09g014240.2.1	2.0	15.811	1	21	794	814	AUUGAGUGCAGCGUUGAUGAC	GUAUAACGCUGCACUCAAC	Clivagem
sly-miR397.1-5p	Solyc09g011050.2.1	1.5	7.436	1	20	668	687	AUUGAGUGCAGCGUUGAUGA	UGAUCAACGCUGCACUUAUU	Clivagem
sly-miR397.1-5p	Solyc09g011000.2.1	1.5	7.88	1	20	730	749	AUUGAGUGCAGCGUUGAUGA	UGAUCAACGCUGCACUUAUU	Clivagem
sly-miR397.1-5p	Solyc06g076760.1.1	2.0	15.83	1	20	680	699	AUUGAGUGCAGCGUUGAUGA	UCAUCAUUGCUGCACUUAUU	Clivagem
sly-miR397.1-5p	Solyc06g076330.2.1	1.5	14.659	1	20	806	825	AUUGAGUGCAGCGUUGAUGA	UAAUCAUUGCUGCACUCAUU	Clivagem
sly-miR397.1-5p	Solyc02g085120.2.1	2.5	17.239	1	20	711	730	AUUGAGUGCAGCGUUGAUGA	UUAUCAUUGCUGCUCUCAUU	Clivagem
sly-miR397.1-5p	Solyc02g078690.1.1	2.5	20.179	1	20	1172	1191	AUUGAGUGCAGCGUUGAUGA	UCAUCAUUGCUGGACUCAAG	Clivagem
sly-miR397.1-5p	Solyc01g108920.2.1	3.0	15.426	1	20	2069	2088	AUUGAGUGCAGCGUUGAUGA	UCAUCAGCGUUGCAUUCAGC	Clivagem
sly-miR397.1-5p	Solyc06g074350.2.1	2.5	8.226	1	20	816	835	AUUGAGUGCAGCGUUGAUGA	UCAUCAUUGUUUCACUUAUU	Tradução
sly-miR397.1-5p	Solyc03g095220.2.1	2.0	16.323	1	20	272	291	AUUGAGUGCAGCGUUGAUGA	UCAUCAACGGUGAACUCAUU	Tradução
sly-miR397.1-5p	Solyc10g076710.1.1	3.0	19.465	1	20	1097	1116	AUUGAGUGCAGCGUUGAUGA	UCAUUAUUGUUGCCCUCAAU	Clivagem
sly-miR397.1-5p	Solyc02g085110.2.1	3.0	17.517	1	20	710	729	AUUGAGUGCAGCGUUGAUGA	UUGUCAUUGCUGCUCUCAUU	Clivagem
sly-miR397.1-5p	Solyc09g010990.2.1	2.5	12.524	1	20	665	684	AUUGAGUGCAGCGUUGAUGA	UAAUCAACGCUGCACUUAUU	Clivagem
sly-miR397.1-5p	Solyc06g050530.2.1	3.0	13.856	1	21	704	724	AUUGAGUGCAGCGUUGAUGAC	GUCAUCAACUCUGGACUCAAC	Clivagem
sly-miR397.1-5p	Solyc07g063920.2.1	3.0	11.255	1	20	1124	1143	AUUGAGUGCAGCGUUGAUGA	ACCUCAACGUUGCACUUAUU	Clivagem
sly-miR397.1-5p	Solyc09g011960.1.1	3.0	11.117	1	20	668	687	AUUGAGUGCAGCGUUGAUGA	UGAUCAAUUGCUGCACUUAAC	Clivagem
sly-miR397.1-5p	Solyc10g078280.2.1	3.0	18.288	1	20	539	558	AUUGAGUGCAGCGUUGAUGA	UCAUCAAGCUUGCAUUCAAU	Clivagem
sly-miR397.2-3p	Solyc12g042740.1.1	2.0	17.452	1	20	1064	1083	CAUCAACGCUGCACUCAAUUC	GAUUCAGUGCAGAGUUGAUG	Clivagem
sly-miR397.2-3p	Solyc06g066730.2.1	3.0	14.45	1	20	1359	1377	CAUCAACGCUGCACUCAAUUC	GAUUGAGUGCAG-GUUGAUA	Clivagem
sly-miR397.2-3p	Solyc10g006700.1.1	3.0	14.487	1	20	281	300	CAUCAACGCUGCACUCAAUUC	GAUUGAGUCCUGAGUUGAUG	Tradução
sly-miR397.2-3p	Solyc11g062250.1.1	3.0	14.47	1	20	719	738	CAUCAACGCUGCACUCAAUUC	GAUCGAGGGAAGCGUUGAUG	Tradução
sly-miR397.2-5p	Solyc03g122140.2.1	3.0	13.713	1	20	1241	1260	AUCGAGUUUAGCGUUGAUGA	UUAUUAGCGCUAAACUCCAU	Clivagem
sly-miR397.2-5p	Solyc02g077630.2.1	2.5	17.948	1	20	2973	2992	AUCGAGUUUAGCGUUGAUGA	UCAUUGACCCUAAACUUGAU	Clivagem
sly-miR397.2-5p	Solyc02g038760.2.1	3.0	16.91	1	20	98	117	AUCGAGUUUAGCGUUGAUGA	UCAUCAUUGCAGAACUUGGU	Tradução
sly-miR397.2-5p	Solyc03g095220.2.1	3.0	16.323	1	20	272	291	AUCGAGUUUAGCGUUGAUGA	UCAUCAACGGUGAACUCAUU	Tradução
sly-miR397.2-5p	Solyc03g114810.2.1	3.0	14.904	1	20	1601	1620	AUCGAGUUUAGCGUUGAUGA	UCAUCAGCUCUAGUUGAUG	Clivagem
sly-miR397.2-5p	Solyc01g006990.2.1	3.0	10.706	1	20	253	272	AUCGAGUUUAGCGUUGAUGA	UCAUCAUACCAAUUCGAU	Tradução
sly-miR397.2-5p	Solyc03g117870.2.1	3.0	18.274	1	20	1063	1082	AUCGAGUUUAGCGUUGAUGA	UCCCUAACGCUAAACUCGGU	Clivagem
sly-miR397.2-5p	Solyc03g112230.2.1	3.0	22.104	1	20	249	268	AUCGAGUUUAGCGUUGAUGA	UCAUCAUUGAGAAACUUGAU	Tradução
sly-miR397.2-5p	Solyc10g054860.1.1	3.0	18.793	1	20	698	717	AUCGAGUUUAGCGUUGAUGA	UCCUCAUUGAUAGCUCGAU	Tradução
sly-miR398a-5p	Solyc06g061080.2.1	3.0	13.911	1	21	781	802	GGGUUGA-UUUGAGAACAUAUG	CAUAUGUUCUCAAAUCUAAUU	Clivagem
sly-miR398a-5p	Solyc10g005150.1.1	3.0	14.459	1	20	297	316	GGGUUGAUUUUGAGAACAUAU	UUAUGUGUUCAAAUCAACUC	Clivagem
sly-miR398a-5p	Solyc01g105490.2.1	3.0	9.552	1	20	40	59	GGGUUGAUUUUGAGAACAUAU	GUUUUUUCCCAAUUCUACUC	Clivagem
sly-miR398a-5p	Solyc06g062520.1.1	3.0	7.101	1	20	19	38	GGGUUGAUUUUGAGAACAUAU	AUAUAUUCACAGAUCAAUCC	Clivagem
sly-miR398a-5p	Solyc12g017480.1.1	3.0	15.707	1	20	311	330	GGGUUGAUUUUGAGAACAUAU	AUAUGCACUCAAAUCAGCUC	Clivagem

sly-miR398a-5p	Solyc08g066670.2.1	3.0	23.28	1	20	1441	1460	GGGUUGAUUUGAGAACAUAU	AGAGGUUCUCAAGUCAACUC	Clivagem
sly-miR398b-3p	Solyc01g067740.2.1	3.0	16.946	1	21	64	84	UGUGUUCUCAGGUUACCCUG	UAAGGGUGACCUGAGAUACACA	Clivagem
sly-miR399a.1-3p	Solyc02g088290.2.1	2.5	19.472	1	21	3087	3107	UGCCAAAGGAGAAUUGCCUG	UAGGAUAAUGCUCCUUUGGCA	Clivagem
sly-miR399a.1-3p	Solyc03g071720.2.1	3.0	18.626	1	20	621	640	UGCCAAAGGAGAAUUGCCCU	AGUGCGGUUCUCUUUUGGCG	Clivagem
sly-miR399a.2-3p	Solyc03g071720.2.1	2.0	18.626	1	20	621	640	UGCCAAAGGAGAAUUGCACU	AGUGCGGUUCUCUUUUGGCG	Clivagem
sly-miR399a.2-3p	Solyc01g095590.2.1	3.0	12.98	1	21	13	33	UGCCAAAGGAGAAUUGCACUG	UGGUGCAAUUUUUGUUUGGUA	Clivagem
sly-miR399a.2-3p	Solyc06g051720.2.1	3.0	11.434	1	21	1208	1229	UGCCAAAGGAG-AAUUGCACUG	CCGUGUAAUUGCUCUUUGGUA	Clivagem
sly-miR399a.2-3p	Solyc05g005590.2.1	3.0	21.875	1	20	926	945	UGCCAAAGGAGAAUUGCACU	AGUCCAAUUGUGCUUUGGCA	Tradução
sly-miR399a.2-3p	Solyc03g116750.2.1	3.0	21.086	1	20	2567	2587	UGCCAAAG-GAGAAUUGCACU	GGUGCAAUUCUGGCUUUGGCA	Tradução
sly-miR399a.3-3p	Solyc03g071720.2.1	2.5	18.626	1	20	621	640	CGCCAAAGGAGAGCUGCCCU	AGUGCGGUUCUCUUUUGGCG	Clivagem
sly-miR399a.3-5p	Solyc03g031410.1.1	1.0	7.177	1	20	1	20	GGGCUACUCUCUAUUGGCAU	AUGCCAAUAGAGUGUAGCCC	Clivagem
sly-miR399a.3-5p	Solyc03g053080.1.1	3.0	13.777	1	20	868	887	GGGCUACUCUCUAUUGGCAU	CUGACAAUAGAAAGUAGCCC	Tradução
sly-miR399a.3-5p	Solyc06g050590.2.1	3.0	17.434	1	20	464	483	GGGCUACUCUCUAUUGGCAU	GUUCCAACAGAGAGUAGUCC	Clivagem
sly-miR399a.4-3p	Solyc03g071720.2.1	2.5	18.626	1	20	621	640	CGCCAAAGGAGAGCUGCCCU	AGUGCGGUUCUCUUUUGGCG	Clivagem
sly-miR399a.4-5p	Solyc03g031410.1.1	1.0	7.177	1	20	1	20	GGGCUACUCUCUAUUGGCAU	AUGCCAAUAGAGUGUAGCCC	Clivagem
sly-miR399a.4-5p	Solyc03g053080.1.1	3.0	13.777	1	20	868	887	GGGCUACUCUCUAUUGGCAU	CUGACAAUAGAAAGUAGCCC	Tradução
sly-miR399a.4-5p	Solyc06g050590.2.1	3.0	17.434	1	20	464	483	GGGCUACUCUCUAUUGGCAU	GUUCCAACAGAGAGUAGUCC	Clivagem
sly-miR399a.5-3p	Solyc03g071720.2.1	2.5	18.626	1	20	621	640	CGCCAAAGGAGAGCUGCCCU	AGUGCGGUUCUCUUUUGGCG	Clivagem
sly-miR399a.5-5p	Solyc03g031410.1.1	1.0	7.177	1	20	1	20	GGGCUACUCUCUAUUGGCAU	AUGCCAAUAGAGUGUAGCCC	Clivagem
sly-miR399a.5-5p	Solyc03g053080.1.1	3.0	13.777	1	20	868	887	GGGCUACUCUCUAUUGGCAU	CUGACAAUAGAAAGUAGCCC	Tradução
sly-miR399a.5-5p	Solyc06g050590.2.1	3.0	17.434	1	20	464	483	GGGCUACUCUCUAUUGGCAU	GUUCCAACAGAGAGUAGUCC	Clivagem
sly-miR399d.1-3p	Solyc04g054900.2.1	3.0	14.497	1	20	335	354	UGCCAAAGAAGAUUUGCCCC	GGGGUAAAUUUGUUUUGGUA	Tradução
sly-miR399d.2-3p	Solyc04g054900.2.1	3.0	14.497	1	20	335	354	UGCCAAAGAAGAUUUGCCCC	GGGGUAAAUUUGUUUUGGUA	Tradução
sly-miR399d.3-3p	Solyc01g096930.2.1	3.0	20.967	1	20	2094	2113	GCCAAAGGAGAGCUGCCCUA	UAGGGCAGCUCUUCUUCGGA	Clivagem
sly-miR399d.3-5p	Solyc03g031410.1.1	2.0	7.177	1	20	1	20	GGGCUACUCUCUAUAGGCAU	AUGCCAAUAGAGUGUAGCCC	Clivagem
sly-miR399d.3-5p	Solyc06g075010.2.1	3.0	17.642	1	20	1167	1186	GGGCUACUCUCUAUAGGCAU	AUGCCUGUUGAGAGUACCCC	Clivagem
sly-miR399i-3p	Solyc03g071720.2.1	3.0	18.626	1	20	621	640	UGCCAAAGGAGAGCUGCCCU	AGUGCGGUUCUCUUUUGGCG	Clivagem
sly-miR399i-3p	Solyc07g052580.1.1	3.0	17.538	1	20	923	942	UGCCAAAGGAGAGCUGCCCU	AAGGAUCUAUCCUUUGGCA	Tradução
sly-miR399j.1-3p	Solyc02g088290.2.1	3.0	19.472	1	21	3087	3107	UGCCAAAGGAGAGUUGCCCUA	UAGGAUAAUGCUCCUUUGGCA	Clivagem
sly-miR399j.1-3p	Solyc07g052580.1.1	3.0	17.538	1	20	923	942	UGCCAAAGGAGAGUUGCCCU	AAGGAUCUAUCCUUUGGCA	Tradução
sly-miR399j.1-5p	Solyc03g031410.1.1	0.0	7.177	1	20	1	20	GGGCUACACUCUAUUGGCAU	AUGCCAAUAGAGUGUAGCCC	Clivagem
sly-miR399j.2-3p	Solyc02g088290.2.1	3.0	19.472	1	21	3087	3107	UGCCAAAGGAGAGUUGCCCUA	UAGGAUAAUGCUCCUUUGGCA	Clivagem
sly-miR399j.2-3p	Solyc07g052580.1.1	3.0	17.538	1	20	923	942	UGCCAAAGGAGAGUUGCCCU	AAGGAUCUAUCCUUUGGCA	Tradução
sly-miR403-3p	Solyc02g069260.2.1	1.5	18.771	1	20	3250	3269	CUAGAUUCACGCACAAGCUC	GAGUUUGUGCGUGAAUCUAA	Clivagem
sly-miR403a-3p	Solyc01g079280.1.1	0.0	17.227	1	21	128	148	UUAGAUUCACGCACAAACGUG	CACGUUUGUGCGUGAAUCUAA	Clivagem

sly-miR403a-3p	Solyc02g069260.2.1	2.0	18.771	1	20	3250	3269	UUAGAUUCACGCACAAACGU	GAGUUUGUGCGUGAAUCUAA	Clivagem
sly-miR403a-3p	Solyc11g012330.1.1	2.5	18.362	1	20	256	275	UUAGAUUCACGCACAAACGU	ACAUUUGUGUGUGAAUUUGA	Clivagem
sly-miR403a-3p	Solyc07g009410.2.1	3.0	22.147	1	20	255	274	UUAGAUUCACGCACAAACGU	ACGUUUGAUCGUGAGUUUAA	Clivagem
sly-miR408.1-3p	Solyc05g054910.2.1	3.0	19.914	1	21	2006	2026	AUGCACUGCCUCUUCCUGGC	GCCAGCUAAGAGGCAGUGUGU	Clivagem
sly-miR408.1-3p	Solyc04g072930.1.1	3.0	13.965	1	20	941	960	AUGCACUGCCUCUUCCUGG	UUGGGGAAGAUGCAGUGUAU	Tradução
sly-miR408.1-3p	Solyc10g049360.1.1	3.0	12.171	1	20	668	687	AUGCACUGCCUCUUCCUGG	CCAGAGAAGAGGUAGUGAAU	Clivagem
sly-miR408.1-3p	Solyc02g082490.2.1	3.0	22.566	1	20	145	164	AUGCACUGCCUCUUCCUGG	CCAGGGAUGAGGCAUUGUAU	Clivagem
sly-miR408.2-5p	Solyc06g060670.2.1	3.0	8.919	1	21	127	147	CAGGGAAGAGGCAGUGCAUGG	CUAUGCAGUGCCUUUCCCUA	Clivagem
sly-miR408.2-5p	Solyc11g033270.1.1	3.0	16.48	1	20	3628	3647	CAGGGAAGAGGCAGUGCAUG	UAUGCAUUGCCUCUUCUAUG	Clivagem
sly-miR408.2-5p	Solyc06g075400.2.1	3.0	20.536	1	21	2444	2464	CAGGGAAGAGGCAGUGCAUGG	UCAUGCAUUGCGUCUUCACUG	Tradução
sly-miR408.2-5p	Solyc01g081050.2.1	3.0	16.899	1	20	3416	3435	CAGGGAAGAGGCAGUGCAUG	CAUGUCCUGAUUCUCCUG	Tradução
sly-miR408a-3p	Solyc05g052360.1.1	2.0	17.044	1	20	124	143	AUGCACAGCCUCUUCCUGG	CCAGUGAAGAGGCUGUGCAA	Clivagem
sly-miR408a-3p	Solyc05g052400.2.1	2.0	15.613	1	20	124	143	AUGCACAGCCUCUUCCUGG	CCAGUGAAGAGGCUGUGCAA	Clivagem
sly-miR408a-3p	Solyc06g050530.2.1	3.0	22.113	1	21	142	162	AUGCACAGCCUCUUCCUGGC	GCCCGUGAAGAGGCUGUGCAA	Clivagem
sly-miR408a-3p	Solyc04g080850.2.1	3.0	17.658	1	20	79	98	AUGCACAGCCUCUUCCUGG	AAAGGGAAGAUGCUGUGCAU	Tradução
sly-miR408a-3p	Solyc06g048860.1.1	3.0	15.609	1	20	124	143	AUGCACAGCCUCUUCCUGG	CCAGUAAAGAGGCUGUGCAA	Clivagem
sly-miR437-3p	Solyc11g010790.1.1	3.0	19.959	1	21	263	283	AAAGUUAGAGAUGUUUGACUU	AAGUCAAGCAUCUCAAACUUG	Clivagem
sly-miR437-3p	Solyc10g008460.2.1	2.5	14.066	1	21	1369	1389	AAAGUUAGAGAUGUUUGACUU	AAGCCAGAUUUUCUAACUUU	Clivagem
sly-miR437-3p	Solyc07g007840.1.1	3.0	19.257	1	21	330	350	AAAGUUAGAGAUGUUUGACUU	AAGUCAAAACAGCUUUGACUUC	Tradução
sly-miR437-3p	Solyc10g006710.2.1	3.0	18.324	1	21	2089	2109	AAAGUUAGAGAUGUUUGACUU	AAAUCAGACGUCUUUAGCUUU	Clivagem
sly-miR437-3p	Solyc03g034090.2.1	3.0	17.852	1	21	868	888	AAAGUUAGAGAUGUUUGACUU	GGGAUAAGCAUUUCUAACUUU	Clivagem
sly-miR437-3p	Solyc04g015720.1.1	3.0	14.148	1	21	460	480	AAAGUUAGAGAUGUUUGACUU	AAGCCUGACAUCUCUAGCUUU	Clivagem
sly-miR437-3p	Solyc06g063100.2.1	3.0	16.167	1	20	810	829	AAAGUUAGAGAUGUUUGACU	UGUCAUAUAUCUCUAGCUUU	Clivagem
sly-miR4376-3p	Solyc12g057110.2.1	3.0	15.375	1	20	929	948	GCAUCAUACUCCUGCAUAUU	GAUAUGCAGGAUGAUGGUGC	Tradução
sly-miR4376-3p	Solyc09g057680.2.1	3.0	16.941	1	20	1746	1765	GCAUCAUACUCCUGCAUAUU	AAUAUGAAGGGUUAUGGUGC	Tradução
sly-miR4376-3p	Solyc06g008560.1.1	3.0	16.394	1	20	936	955	GCAUCAUACUCCUGCAUAUU	AAAUUGAGGAGUAUGAUGC	Clivagem
sly-miR4376-5p	Solyc05g016330.2.1	3.0	19.349	1	20	21	40	ACGCAGGAGAGAUGAUGCUG	CAGCAUACCCUGUCUUGUGU	Tradução
sly-miR477-3p	Solyc10g079160.1.1	2.0	17.586	1	20	795	814	AGUUCUUGUAGGGUGAGACA	UGUUUCACCCUACGAGGAUU	Clivagem
sly-miR477-3p	Solyc06g009470.1.1	3.0	19.296	1	22	191	212	AGUUCUUGUAGGGUGAGACAAC	GUUGUCUGAUGCUACAAGAGCU	Clivagem
sly-miR477-3p	Solyc10g055060.1.1	3.0	17.927	1	21	750	770	AGUUCUUGUAGGGUGAGACAA	UUGUCUCAACCUGAAAGAGCU	Clivagem
sly-miR477-3p	Solyc10g055080.1.1	3.0	14.856	1	21	1635	1655	AGUUCUUGUAGGGUGAGACAA	UUGUCUCAACCUGAAAGAGCU	Clivagem
sly-miR477-3p	Solyc06g075970.2.1	3.0	20.026	1	21	1655	1675	AGUUCUUGUAGGGUGAGACAA	UUGUUACAGCCUACAAGAGCU	Clivagem
sly-miR477-3p	Solyc02g088760.2.1	2.5	7.899	1	22	243	264	AGUUCUUGUAGGGUGAGACAAC	GCUGUCUCGCCGUUCAAGAACU	Tradução
sly-miR477-5p	Solyc01g103410.2.1	3.0	22.204	1	20	289	308	UGUCUCUCCCUCAAGGGCUC	GAGUUAUUGGGGGAGAGGCA	Clivagem
sly-miR477-5p	Solyc06g076590.2.1	3.0	16.556	1	20	494	513	UGUCUCUCCCUCAAGGGCUC	GAUCACUUGAUGGAGAGACA	Tradução

sly-miR477a-3p	Solyc10g085550.1.1	3.0	18.746	1	22	521	542	GAAGCUCUAGCAGGGAGAGCCA	UGAUUCUCCUGUUGGAGCUUC	Clivagem
sly-miR477a-3p	Solyc03g082940.2.1	2.5	19.566	1	20	180	199	GAAGCUCUAGCAGGGAGAGC	UCUCUCCUGUUAGGGUUUC	Clivagem
sly-miR477a-3p	Solyc06g084250.2.1	2.5	23.89	1	20	844	863	GAAGCUCUAGCAGGGAGAGC	GUUCUUCUUGCUGGAGCUUU	Clivagem
sly-miR477a-3p	Solyc11g072590.1.1	3.0	24.014	1	20	853	872	GAAGCUCUAGCAGGGAGAGC	GCUCUCCUGCUGGCGCUUU	Clivagem
sly-miR477a-3p	Solyc05g054010.2.1	2.5	16.012	1	20	832	851	GAAGCUCUAGCAGGGAGAGC	GCUCUACUCCUAGAGCUUC	Tradução
sly-miR477a-3p	Solyc07g007510.2.1	3.0	13.664	1	20	995	1014	GAAGCUCUAGCAGGGAGAGC	GCUCUUGCUGAUAGAGUUUC	Tradução
sly-miR477a-3p	Solyc02g005280.1.1	3.0	21.693	1	20	547	566	GAAGCUCUAGCAGGGAGAGC	GCUCUGCCAGUUAGAGCUUU	Clivagem
sly-miR477a-5p	Solyc01g081080.1.1	2.0	15.156	1	21	589	609	CCUCUCCCUCAAGGGCUUCUC	GGGAAGCCUUUGAGGGAGAGA	Clivagem
sly-miR477a-5p	Solyc03g110950.1.1	2.0	20.807	1	20	786	805	CCUCUCCCUCAAGGGCUUCU	GGAAGCCUUUGAGGGAGAGA	Clivagem
sly-miR477a-5p	Solyc02g082910.2.1	2.5	15.768	1	20	1260	1279	CCUCUCCCUCAAGGGCUUCU	AGAAGCUUUUGAGGGAGGGU	Clivagem
sly-miR477a-5p	Solyc02g085000.2.1	2.5	20.83	1	20	748	767	CCUCUCCCUCAAGGGCUUCU	AGAAGCUCUUGAUGGAGAGA	Clivagem
sly-miR477a-5p	Solyc05g015890.2.1	3.0	21.082	1	21	733	753	CCUCUCCCUCAAGGGCUUCUC	GAGAGGUACUUCAGGGAGAGG	Tradução
sly-miR477a-5p	Solyc11g071840.1.1	3.0	12.895	1	20	1265	1284	CCUCUCCCUCAAGGGCUUCU	AGAAGCCUUUGAAGGAGAAG	Clivagem
sly-miR477b-3p	Solyc03g083440.2.1	2.0	19.702	1	20	2106	2125	GAGGUCUUUCGAGUGAGAGU	GCUCUCACUCAAAGGACCUC	Tradução
sly-miR477b-3p	Solyc09g064200.2.1	3.0	19.79	1	21	1085	1105	GAGGUCUUUCGAGUGAGAGUG	CAUUAUUACUCGAAAGAUCUC	Clivagem
sly-miR477b-5p	Solyc03g110950.1.1	1.5	20.807	1	21	785	805	ACUCUCCCUCAAAGGCUUCUG	UGGAAGCCUUUGAGGGAGAGA	Clivagem
sly-miR477b-5p	Solyc02g082910.2.1	1.0	15.768	1	20	1260	1279	ACUCUCCCUCAAAGGCUUCU	AGAAGCUUUUGAGGGAGGGU	Clivagem
sly-miR477b-5p	Solyc01g081080.1.1	1.5	15.156	1	20	590	609	ACUCUCCCUCAAAGGCUUCU	GGAAGCCUUUGAGGGAGAGA	Clivagem
sly-miR477b-5p	Solyc02g087300.1.1	3.0	21.882	1	20	861	880	ACUCUCCCUCAAAGGCUUCU	AGAAGCUGUUGAUGGGGAGU	Clivagem
sly-miR482a.1-5p	Solyc08g075630.2.1	1.5	24.851	1	22	538	559	UCUUUCCUACUCCUCCCAUACC	GGUAUGGGGGGAUUAGGAAAGA	Tradução
sly-miR482a.1-5p	Solyc08g076000.2.1	1.5	24.722	1	22	699	720	UCUUUCCUACUCCUCCCAUACC	GGUAUGGGGGGACUAGGAAAGA	Tradução
sly-miR482a.1-5p	Solyc11g065780.1.1	3.0	13.812	1	22	454	475	UCUUUCCUACUCCUCCCAUACC	GGUAUGGGGGGUGUAGGUAAGA	Tradução
sly-miR482a.1-5p	Solyc06g076350.2.1	3.0	15.598	1	22	394	415	UCUUUCCUACUCCUCCCAUACC	GCUAUGAGAGGAGUAGAGAAGA	Clivagem
sly-miR482a.1-5p	Solyc11g011560.1.1	3.0	19.304	1	22	1091	1112	UCUUUCCUACUCCUCCCAUACC	GUUGUGGGAUGAGUAGGCAAGA	Clivagem
sly-miR482a.1-5p	Solyc11g017420.1.1	3.0	19.254	1	22	1558	1579	UCUUUCCUACUCCUCCCAUACC	GAUAUGCGGAGAGUGGGAAAGA	Clivagem
sly-miR482a.1-5p	Solyc04g009940.2.1	3.0	17.92	1	20	397	416	UCUUUCCUACUCCUCCCAUA	UAUGCAAGGAGAAGGAAAGA	Tradução
sly-miR482a.1-5p	Solyc01g079080.2.1	3.0	13.065	1	20	1018	1036	UCUUUCCUACUCCUCCCAUA	UAUGGAAGGAG-AGGAAAGA	Tradução
sly-miR482a.2-3p	Solyc11g008140.1.1	1.0	11.101	1	20	1073	1092	UUUCCAAUCCACCCAUUCC	GGAGUGGGUGGAAUUGGAGA	Clivagem
sly-miR482a.2-3p	Solyc12g056490.1.1	3.0	23.311	1	22	324	345	UUUCCAAUCCACCCAUUCCUA	UGGGAUUGGGAGGAAUUUGAAG	Clivagem
sly-miR482a.2-3p	Solyc04g007320.1.1	2.0	21.199	1	22	671	692	UUUCCAAUCCACCCAUUCCUA	UUGGAUUGAGUGGAGUUGGGAA	Clivagem
sly-miR482a.2-3p	Solyc01g087200.2.1	3.0	20.614	1	21	516	536	UUUCCAAUCCACCCAUUCCU	AGGUAUGGGUGGGAUUGGCAA	Clivagem
sly-miR482a.2-3p	Solyc01g090860.2.1	3.0	8.404	1	20	784	803	UUUCCAAUCCACCCAUUCC	AGAAUGGGUGGAAUUGGGGU	Clivagem
sly-miR482a.2-3p	Solyc01g102920.2.1	2.0	14.713	1	20	475	494	UUUCCAAUCCACCCAUUCC	GGUAUUGGUGGAAUUGGAAA	Clivagem
sly-miR482a.2-3p	Solyc09g090390.1.1	3.0	18.271	1	21	720	740	UUUCCAAUCCACCCAUUCCU	AGGAAUCGGUGGCAUUGGAGG	Tradução
sly-miR482a.2-3p	Solyc10g074880.1.1	3.0	5.151	1	21	198	218	UUUCCAAUCCACCCAUUCCU	AGGAAGUGGUGGGAUUGGAAG	Clivagem

sly-miR482a.2-3p	Solyc02g091890.1.1	3.0	6.22	1	21	755	775	UUUCCAAUUCCACCCAUUCCU	AGAAGUCGGUGGAAUUGGAAG	Clivagem
sly-miR482a.2-3p	Solyc08g005510.1.1	3.0	19.75	1	21	708	728	UUUCCAAUUCCACCCAUUCCU	GGGAAUAGGUGGAGUUGGUAA	Clivagem
sly-miR482a.2-3p	Solyc11g011350.1.1	3.0	19.87	1	21	795	815	UUUCCAAUUCCACCCAUUCCU	GGGAAUAGGUGGAGUUGGUAA	Clivagem
sly-miR482a.2-3p	Solyc10g007060.2.1	3.0	17.785	1	21	1354	1375	UUUCCAA-UUCCACCCAUUCCU	AGAAAUGGGUGGAAGUUGGAAA	Clivagem
sly-miR482a.2-3p	Solyc05g009750.1.1	3.0	17.541	1	22	164	185	UUUCCAAUUCCACCCAUUCCUA	UUGGAAUUGGUGGAAUAGGGAA	Clivagem
sly-miR482a.2-3p	Solyc06g009550.2.1	2.5	16.981	1	22	1187	1208	UUUCCAAUUCCACCCAUUCCUA	UUGGAGUUGGUGGAUUUGGAAA	Clivagem
sly-miR482a.2-3p	Solyc12g009450.1.1	3.0	19.542	1	22	725	746	UUUCCAAUUCCACCCAUUCCUA	UUGGGAUUGGUGGCAUUGGUAA	Tradução
sly-miR482a.2-3p	Solyc03g116360.1.1	2.5	15.966	1	20	820	839	UUUCCAAUUCCACCCAUUCC	GGGAUGUGUGGACUUGGAAA	Clivagem
sly-miR482a.2-3p	Solyc04g005540.2.1	3.0	17.383	1	20	638	657	UUUCCAAUUCCACCCAUUCC	GGUAUGGGUGGAGUUGGUAA	Clivagem
sly-miR482a.2-3p	Solyc03g083130.1.1	3.0	16.198	1	21	1322	1342	UUUCCAAUUCCACCCAUUCCU	AGCAAUGUUUGGAAUUGGAAA	Clivagem
sly-miR482a.2-3p	Solyc05g013290.1.1	3.0	19.042	1	22	140	161	UUUCCAAUUCCACCCAUUCCUA	UUGGAGAGGGUGGAUUUGGGAA	Clivagem
sly-miR482a.2-3p	Solyc03g005130.1.1	3.0	13.039	1	22	1463	1484	UUUCCAAUUCCACCCAUUCCUA	UUGGGAAGGGUGGAUUUGGAGA	Clivagem
sly-miR482a.2-3p	Solyc07g052380.2.1	3.0	11.899	1	20	779	798	UUUCCAAUUCCACCCAUUCC	GGAAUGGGUUUAGUUGGAAG	Tradução
sly-miR482a.2-3p	Solyc04g005550.1.1	3.0	21.364	1	20	541	560	UUUCCAAUUCCACCCAUUCC	GGUAUGGGUGGUGUUGGGAA	Tradução
sly-miR482a.2-3p	Solyc05g018720.1.1	3.0	17.342	1	22	62	83	UUUCCAAUUCCACCCAUUCCUA	UUGGUAUGCCUGGAAUUGGAAA	Clivagem
sly-miR482a.2-5p	Solyc04g079550.2.1	2.5	4.646	1	20	188	207	GGGAUUGGUGAGUUGGAAAG	CUUUUCAAUUCACCGAUUUC	Clivagem
sly-miR482a.2-5p	Solyc01g008410.1.1	3.0	19.318	1	20	161	180	GGGAUUGGUGAGUUGGAAAG	UCUUUCAACUCACCAAUCUC	Clivagem
sly-miR482a.2-5p	Solyc09g009630.2.1	3.0	19.58	1	20	949	968	GGGAUUGGUGAGUUGGAAAG	UUUUUCCACUCACCAGUCCU	Clivagem
sly-miR482a.2-5p	Solyc01g058670.2.1	3.0	5.244	1	20	95	114	GGGAUUGGUGAGUUGGAAAG	CUCUCCGAUUAUCAAUUCUC	Clivagem
sly-miR482a.2-5p	Solyc11g020730.1.1	3.0	9.264	1	20	21	41	GGGAUUGGU-GAGUUGGAAAG	CUUUCACGCUCCAUCAAUCCC	Tradução
sly-miR482a.2-5p	Solyc02g090350.2.1	3.0	19.875	1	20	611	630	GGGAUUGGUGAGUUGGAAAG	CUUCCAACACUCUAAUCUC	Tradução
sly-miR482a.2-5p	Solyc05g008990.2.1	3.0	9.967	1	19	1932	1951	GGGAUUGGUG-AGUUGGAAA	UUUCCAACUUCACCAAUUC	Tradução
sly-miR482c-5p	Solyc06g005410.2.1	1.0	15.569	1	21	378	398	UUUCCUAUUCCACCCAUGCCA	UGGCAUUGGUGGAAUAGGAAA	Clivagem
sly-miR482c-5p	Solyc02g032650.2.1	2.0	15.284	1	21	183	203	UUUCCUAUUCCACCCAUGCCA	UGGUAUGGGUGGUUAGGGAA	Tradução
sly-miR482c-5p	Solyc05g009750.1.1	2.5	17.541	1	22	164	185	UUUCCUAUUCCACCCAUGCCAA	UUGGAAUUGGUGGAAUAGGGAA	Clivagem
sly-miR482c-5p	Solyc01g105340.2.1	2.5	20.142	1	21	552	572	UUUCCUAUUCCACCCAUGCCA	UGGCAUGGGUGGUUAGGGAGG	Tradução
sly-miR482c-5p	Solyc04g009130.2.1	2.5	20.332	1	21	596	616	UUUCCUAUUCCACCCAUGCCA	UGGCAUGGGUGGAAUAGGCAA	Clivagem
sly-miR482c-5p	Solyc04g009290.1.1	2.5	18.898	1	21	573	593	UUUCCUAUUCCACCCAUGCCA	UGGCAUGGGUGGAAUAGGCAA	Clivagem
sly-miR482c-5p	Solyc01g113620.1.1	2.5	16.895	1	21	609	629	UUUCCUAUUCCACCCAUGCCA	UGGCAUUGGUGGAAUAGGCAA	Clivagem
sly-miR482c-5p	Solyc08g075640.2.1	3.0	24.051	1	22	533	554	UUUCCUAUUCCACCCAUGCCAA	UUGGUAUGGGGGGCUAGGAAA	Clivagem
sly-miR482c-5p	Solyc02g079350.2.1	2.0	14.312	1	20	586	605	UUUCCUAUUCCACCCAUGCC	GGUAGGGGUGGGAUAGGAAA	Clivagem
sly-miR482c-5p	Solyc02g079330.2.1	2.0	16.167	1	20	507	526	UUUCCUAUUCCACCCAUGCC	GGUAGGGGUGGGAUAGGAAA	Clivagem
sly-miR482c-5p	Solyc01g102920.2.1	3.0	14.713	1	21	474	494	UUUCCUAUUCCACCCAUGCCA	UGGUAUUGGUGGAAUUGGAAA	Clivagem
sly-miR482c-5p	Solyc09g075010.2.1	3.0	16.92	1	21	551	571	UUUCCUAUUCCACCCAUGCCA	UGAUUAGGGUGGAAUAGGGAGG	Clivagem
sly-miR482c-5p	Solyc02g079310.1.1	2.5	18.123	1	21	309	329	UUUCCUAUUCCACCCAUGCCA	UGUUAGGGUGGAAUAGGAAA	Clivagem

sly-miR482c-5p	Solyc04g026110.2.1	2.5	22.415	1	21	565	585	UUUCCUAUUCCACCCAUGCCA	UGGCAUGGGCGGAUUGGGAAA	Clivagem
sly-miR482c-5p	Solyc04g009110.1.1	2.5	18.119	1	21	573	593	UUUCCUAUUCCACCCAUGCCA	UGGCAUGGGCGGAUUGGGGAA	Clivagem
sly-miR482c-5p	Solyc09g098100.2.1	3.0	18.254	1	22	2059	2080	UUUCCUAUUCCACCCAUGCCAA	UAGGCAUGGGUGGACAAGGGAA	Clivagem
sly-miR482c-5p	Solyc02g030290.1.1	3.0	19.372	1	20	283	302	UUUCCUAUUCCACCCAUGCC	GGCAUGGGUGGGCUAGGUAA	Clivagem
sly-miR482c-5p	Solyc11g008560.1.1	3.0	16.373	1	20	815	834	UUUCCUAUUCCACCCAUGCC	GGCAUAGGUGGACUGGGAGA	Clivagem
sly-miR482d-3p	Solyc02g036270.2.1	1.5	12.267	1	22	514	535	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGUGGUGUAGGUAGA	Clivagem
sly-miR482d-3p	Solyc05g008070.2.1	1.5	21.303	1	22	528	549	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGCGGAUAGGUAGA	Tradução
sly-miR482d-3p	Solyc04g009120.1.1	1.5	21.183	1	22	601	622	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGUGGUUAGGCAAGA	Tradução
sly-miR482d-3p	Solyc12g017800.1.1	2.0	24.453	1	22	526	547	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGCGGAUAGGUAGA	Tradução
sly-miR482d-3p	Solyc11g065780.1.1	2.0	13.812	1	22	454	475	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGGGUGUAGGUAGA	Clivagem
sly-miR482d-3p	Solyc12g016220.1.1	2.5	21.204	1	22	652	673	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGUGGUGUUGGUAGA	Clivagem
sly-miR482d-3p	Solyc04g025820.1.1	2.0	19.14	1	22	314	335	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGCGGAUAGGCAAGA	Tradução
sly-miR482d-3p	Solyc07g039420.1.1	2.0	23.494	1	22	568	589	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGCGGAUAGGCAAGA	Tradução
sly-miR482d-3p	Solyc04g025840.1.1	2.0	19.226	1	22	370	391	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGCGGAUAGGCAAGA	Tradução
sly-miR482d-3p	Solyc10g054940.1.1	2.5	17.492	1	22	46	67	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGUGGUGUUGGUAGA	Clivagem
sly-miR482d-3p	Solyc10g055170.1.1	2.5	21.742	1	22	46	67	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGUGGUGUUGGUAGA	Clivagem
sly-miR482d-3p	Solyc07g005770.2.1	3.0	23.779	1	22	541	562	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGCGGAUAGGCAAAA	Tradução
sly-miR482d-3p	Solyc11g006530.1.1	2.5	18.804	1	22	526	547	UCUUGCCUACACCGCCCAUGCC	GGAAUGGGCGGAUAGGUAGA	Tradução
sly-miR482d-3p	Solyc11g006630.1.1	2.5	21.57	1	22	532	553	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGCGGAUUGGUAGA	Tradução
sly-miR482d-3p	Solyc04g009290.1.1	2.5	23.41	1	22	574	595	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGUGGAUAGGCAAGA	Tradução
sly-miR482d-3p	Solyc04g009130.2.1	2.5	20.794	1	22	597	618	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGUGGAUAGGCAAGA	Tradução
sly-miR482d-3p	Solyc07g039400.1.1	2.5	22.64	1	22	337	358	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGCGGAUAGGUAGA	Tradução
sly-miR482d-3p	Solyc10g054970.1.1	2.5	19.563	1	21	539	559	UCUUGCCUACACCGCCCAUGC	GUAUGGGUGGUGUUGGUAGA	Clivagem
sly-miR482d-3p	Solyc11g071420.1.1	3.0	19.671	1	22	622	643	UCUUGCCUACACCGCCCAUGCC	GGAAUGGGCGGCGUGGGUAGA	Tradução
sly-miR482d-3p	Solyc08g005440.2.1	3.0	21.814	1	22	616	637	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGUGGUUCAGGUAGA	Tradução
sly-miR482d-3p	Solyc11g020100.1.1	3.0	23.736	1	22	520	541	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGCGGAUCGGUAGA	Tradução
sly-miR482d-3p	Solyc11g020090.1.1	3.0	20.197	1	22	103	124	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGCGGAUAGGUAGA	Tradução
sly-miR482d-5p	Solyc01g111780.2.1	3.0	13.539	1	20	1793	1812	CGUGAGCGGUGGGGAAAGAU	AUCUUUCCACUGCUCGAG	Clivagem
sly-miR482d-5p	Solyc07g007040.2.1	2.5	20.909	1	20	29	48	CGUGAGCGGUGGGGAAAGAU	AUCUGUCUCCGCCGUUCACG	Clivagem
sly-miR482d-5p	Solyc03g020030.2.1	3.0	15.681	1	20	741	760	CGUGAGCGGUGGGGAAAGAU	AGCUUUUCCACCGCUUGCG	Clivagem
sly-miR482d-5p	Solyc02g089770.2.1	3.0	18.895	1	20	741	760	CGUGAGCGGUGGGGAAAGAU	AUCUUUCCAAACGCUCACC	Tradução
sly-miR482e-3p	Solyc11g006630.1.1	1.5	21.57	1	22	532	553	UCUUGCCAAUACCGCCCAUUCC	GGCAUGGGCGGAUUGGUAGA	Clivagem
sly-miR482e-3p	Solyc11g006530.1.1	1.5	18.804	1	22	526	547	UCUUGCCAAUACCGCCCAUUCC	GGAAUGGGCGGAUAGGUAGA	Clivagem
sly-miR482e-3p	Solyc07g049700.1.1	2.0	24.47	1	22	544	565	UCUUGCCAAUACCGCCCAUUCC	GGUAUGGGUGGAUUGGUAGA	Clivagem
sly-miR482e-3p	Solyc10g055170.1.1	2.5	21.742	1	22	46	67	UCUUGCCAAUACCGCCCAUUCC	GGUAUGGGUGGUGUUGGUAGA	Clivagem

sly-miR482e-3p	Solyc10g054940.1.1	2.5	17.492	1	22	46	67	UCUUGCCAAUACCGCCCAUUCC	GGUAUGGGUGGUGUUGGUAAGA	Clivagem
sly-miR482e-3p	Solyc12g009450.1.1	2.5	19.509	1	22	727	748	UCUUGCCAAUACCGCCCAUUCC	GGGAUGGGUGGCAUUGGUAAGA	Tradução
sly-miR482e-3p	Solyc12g016220.1.1	2.5	21.204	1	22	652	673	UCUUGCCAAUACCGCCCAUUCC	GGUAUGGGUGGUGUUGGUAAGA	Clivagem
sly-miR482e-3p	Solyc11g020100.1.1	2.5	23.736	1	22	520	541	UCUUGCCAAUACCGCCCAUUCC	GGUAUGGGCGGUAUCGGUAAGA	Clivagem
sly-miR482e-3p	Solyc12g017800.1.1	2.5	24.453	1	22	526	547	UCUUGCCAAUACCGCCCAUUCC	GGUAUGGGCGGUAUAGGUAAGA	Clivagem
sly-miR482e-3p	Solyc05g008070.2.1	2.5	21.303	1	22	528	549	UCUUGCCAAUACCGCCCAUUCC	GGCAUGGGCGGUAUAGGUAAGA	Clivagem
sly-miR482e-3p	Solyc09g091050.2.1	3.0	15.779	1	22	713	734	UCUUGCCAAUACCGCCCAUUCC	GGAAUGGGCGGUGGUGGGAAGA	Tradução
sly-miR482e-3p	Solyc10g054970.1.1	2.5	19.563	1	21	539	559	UCUUGCCAAUACCGCCCAUUC	GUAUGGGUGGUGUUGGUAAGA	Clivagem
sly-miR482e-3p	Solyc11g006520.1.1	3.0	23.607	1	22	511	532	UCUUGCCAAUACCGCCCAUUCC	GGUAUGGGUGGUAUCGGUAAGA	Clivagem
sly-miR482e-3p	Solyc11g071420.1.1	3.0	19.671	1	22	622	643	UCUUGCCAAUACCGCCCAUUCC	GGAAUGGGCGGCGUGGGUAAGA	Tradução
sly-miR482e-3p	Solyc01g014840.2.1	3.0	16.059	1	22	649	670	UCUUGCCAAUACCGCCCAUUCC	GGGAUGGGAGGCAUUGGUAAGA	Tradução
sly-miR482e-3p	Solyc08g007630.1.1	3.0	21.212	1	22	622	643	UCUUGCCAAUACCGCCCAUUCC	GGAAUGGGCGGCCUGGGCAAGA	Tradução
sly-miR482e-3p	Solyc01g108460.1.1	3.0	19.975	1	19	1120	1139	UCUUGCCAAUA-CCGCCCAU	AUAGGCGGCUAUUGGCAAGA	Clivagem
sly-miR5162-3p	Solyc10g009380.2.1	1.0	17.34	1	20	461	480	AAAUGACCAAAUACCCCUA	UAGGGGUAUUUUGGUCAUUU	Clivagem
sly-miR5162-3p	Solyc01g005590.2.1	2.5	12.686	1	21	286	306	AAAUGACCAAAUACCCCUAA	UUGAGGGUAUUUUCGUCAUUU	Clivagem
sly-miR5162-3p	Solyc06g007380.1.1	2.5	17.073	1	20	525	544	AAAUGACCAAAUACCCCUA	UGGGGGUAUUUUCGUCAUUC	Clivagem
sly-miR5162-3p	Solyc12g089230.1.1	3.0	12.104	1	21	1999	2019	AAAUGACCAAAUACCCCUAA	UUGAGCGUAUUUUGGUUUAUUU	Clivagem
sly-miR5162-3p	Solyc08g065210.1.1	3.0	19.023	1	21	181	201	AAAUGACCAAAUACCCCUAA	UUAGGGGUAUUCUCCGUCAUUU	Tradução
sly-miR5162-3p	Solyc08g014110.1.1	3.0	12.857	1	20	464	483	AAAUGACCAAAUACCCCUA	AAGGGAUAUUUAGGUCAUUU	Tradução
sly-miR5162-3p	Solyc00g143770.1.1	3.0	13.047	1	20	2	21	AAAUGACCAAAUACCCCUA	UGGUGGAUUUUGGUUUAUUU	Clivagem
sly-miR5162-3p	Solyc01g005990.2.1	3.0	18.565	1	20	752	771	AAAUGACCAAAUACCCCUA	UAUGGGCUUUUUGGUCAUUU	Clivagem
sly-miR5174d-5p	Solyc02g067210.2.1	2.5	14.695	1	24	1507	1530	UCCCUCCGUUUCAAAAAGAUUGGC	GCUAAUCUUUUUGAAAAAGAGGGA	Clivagem
sly-miR5174d-5p	Solyc01g110040.2.1	2.0	16.734	1	24	2268	2291	UCCCUCCGUUUCAAAAAGAUUGGC	GUCAUUCUUUAUGAAACGGAGGGA	Clivagem
sly-miR5174d-5p	Solyc01g106940.2.1	2.5	18.973	1	23	10797	10819	UCCCUCCGUUUCAAAAAGAUUGG	CUAUUCUUUUUGAAACGGAUGGA	Clivagem
sly-miR5174d-5p	Solyc11g007600.1.1	3.0	17.441	1	23	1310	1332	UCCCUCCGUUUCAAAAAGAUUGG	UUGGUCUUUUUGAAUCGGAGAGA	Tradução
sly-miR5174d-5p	Solyc01g067490.2.1	3.0	21.227	1	24	487	510	UCCCUCCGUUUCAAAAAGAUUGGC	GCAGCUCUUGUUGAGAUGGAGGGA	Clivagem
sly-miR5174d-5p	Solyc05g007680.1.1	3.0	15.866	1	20	1169	1188	UCCCUCCGUUUCAAAAAGAU	AUCUUGUUGAAUUGGAUGGA	Clivagem
sly-miR5282-3p	Solyc05g012890.1.1	3.0	19.624	1	23	1025	1047	GACGGAAUUGAGAGGGGAUUUUA	UGAAUUUCCUCUCUAGUUUUGUC	Clivagem
sly-miR5282-3p	Solyc05g012910.2.1	3.0	23.686	1	23	1235	1257	GACGGAAUUGAGAGGGGAUUUUA	UGGAUUUCCUCUCUAGUUUUGUC	Clivagem
sly-miR5282-3p	Solyc05g013580.2.1	3.0	6.6	1	21	24	44	GACGGAAUUGAGAGGGGAUUU	AAAUUCCUCUCUAAUUUCAUU	Clivagem
sly-miR5282-3p	Solyc02g094150.2.1	2.5	15.326	1	20	236	255	GACGGAAUUGAGAGGGGAUU	AGUGCCUCUCUCAUCCGUC	Tradução
sly-miR5282-3p	Solyc03g116720.1.1	3.0	13.739	1	21	115	135	GACGGAAUUGAGAGGGGAUUU	GAAUCCUCCCCUAAUUUCGUC	Clivagem
sly-miR5282-5p	Solyc12g056600.2.1	2.0	11.969	1	23	698	720	AUGAAAUUCCUUAACAAUUCUU	GGGGAAUUUGAAAGGAGUUUUUAU	Clivagem
sly-miR5282-5p	Solyc02g061940.2.1	2.0	15.201	1	23	293	315	AUGAAAUUCCUUAACAAUUCUU	AAUGUAUUUGUGAGGAGUUUCAU	Clivagem
sly-miR5282-5p	Solyc01g091010.2.1	3.0	10.338	1	22	160	181	AUGAAAUUCCUUAACAAUUCUU	AGGAAUUGUAAGGAAUCUUAU	Clivagem

sly-miR5282-5p	Solyc07g054640.1.1	2.5	20.292	1	20	994	1013	AUGAAAUUCCUUACAAAUUC	CCAUUUGUGAGGAAUUUCAU	Clivagem
sly-miR5282-5p	Solyc04g056590.2.1	2.5	12.826	1	20	934	953	AUGAAAUUCCUUACAAAUUC	UACUUUGUAAGGGAUUUCAU	Clivagem
sly-miR5282-5p	Solyc07g061980.1.1	3.0	17.864	1	23	846	868	AUGAAAUUCCUUACAAAUUCCUU	AGAGGAUUUGUUGGGGAUUUUUAU	Clivagem
sly-miR5282-5p	Solyc08g065640.2.1	3.0	18.819	1	20	463	482	AUGAAAUUCCUUACAAAUUC	GAAUUUGCAAGGAGUUUUUAG	Clivagem
sly-miR5282-5p	Solyc05g007620.1.1	2.5	19.483	1	20	187	206	AUGAAAUUCCUUACAAAUUC	GAAUUUGUAAUUGAUUUUCAU	Tradução
sly-miR5282-5p	Solyc05g017860.2.1	3.0	19.108	1	23	2161	2183	AUGAAAUUCCUUACAAAUUCCUU	AGAGAAUUUUUGGAGAAUUUCAU	Tradução
sly-miR5282-5p	Solyc05g007350.1.1	3.0	14.299	1	20	388	407	AUGAAAUUCCUUACAAAUUC	GAGUUUGUAAUGAAAUUCAU	Tradução
sly-miR5282-5p	Solyc02g087960.2.1	3.0	14.002	1	20	872	891	AUGAAAUUCCUUACAAAUUC	UAAUUUAGAAGGAAUUUCAU	Clivagem
sly-miR5282-5p	Solyc09g065270.2.1	3.0	12.866	1	20	963	982	AUGAAAUUCCUUACAAAUUC	AAUUUUUGUUAGGAAUUUCAU	Clivagem
sly-miR5282-5p	Solyc04g078610.2.1	3.0	17.526	1	23	2394	2416	AUGAAAUUCCUUACAAAUUCCUU	AGAGAAUUGUUAGGCAUUUCAU	Clivagem
sly-miR530.1-5p	Solyc09g083390.1.1	3.0	20.699	1	21	93	113	UCUGCAUUUGCACCUGCACC	AGGUGCAGGUGUAAAUGCAAG	Clivagem
sly-miR530.1-5p	Solyc03g096230.1.1	2.5	16.619	1	21	182	202	UCUGCAUUUGCACCUGCACC	AGGUGCAGUUGGAGAUGCAGA	Tradução
sly-miR530.1-5p	Solyc04g009450.1.1	3.0	17.854	1	20	7	26	UCUGCAUUUGCACCUGCACC	UCUGCAGGAGCAAAUGCAGA	Clivagem
sly-miR530.1-5p	Solyc07g053260.2.1	2.5	14.249	1	20	906	925	UCUGCAUUUGCACCUGCACC	GGUGGAGGUGAAGAUGCAGA	Tradução
sly-miR530.1-5p	Solyc01g006260.2.1	3.0	21.188	1	21	380	400	UCUGCAUUUGCACCUGCACC	AGGUUCAGCAGCAAAUGCAGA	Clivagem
sly-miR530.1-5p	Solyc08g069170.1.1	3.0	15.898	1	21	1620	1640	UCUGCAUUUGCACCUGCACC	AGGCAAAGGUGCAAAUGCAGA	Clivagem
sly-miR530.1-5p	Solyc08g066610.2.1	3.0	14.412	1	21	208	228	UCUGCAUUUGCACCUGCACC	GGAUGCAAGUACAAUGCAGA	Tradução
sly-miR5300-5p	Solyc05g008650.1.1	3.0	20.456	1	22	1282	1303	UCCCCAGUCCAGGCAUUCCAAC	GUUGGAAUGCCUGGACUUGGCA	Clivagem
sly-miR5300-5p	Solyc06g064780.1.1	3.0	17.718	1	20	177	196	UCCCCAGUCCAGGCAUUCCA	UGGAAUGCCUGGACUUGGUA	Clivagem
sly-miR5300-5p	Solyc06g064690.1.1	3.0	19.557	1	20	51	70	UCCCCAGUCCAGGCAUUCCA	UGGAAUGCCUGGACUUGGUA	Clivagem
sly-miR5300-5p	Solyc09g018220.1.1	3.0	24.547	1	22	550	571	UCCCCAGUCCAGGCAUUCCAAC	GUUGGCAUGCCCGGUCUGGGGA	Tradução
sly-miR5300-5p	Solyc06g064760.1.1	3.0	19.193	1	20	177	196	UCCCCAGUCCAGGCAUUCCA	UGGAAUGCCUGGACUCGGUA	Clivagem
sly-miR5300-5p	Solyc03g120010.2.1	2.5	24.291	1	20	758	777	UCCCCAGUCCAGGCAUUCCA	UGGGAUGCAUUGACUGGGGA	Tradução
sly-miR5303.2-3p	Solyc01g094210.2.1	1.0	10.571	1	21	1076	1096	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGAAUUUUUCAA AAA	Clivagem
sly-miR5303.2-3p	Solyc05g007570.2.1	1.0	18.229	1	21	2515	2535	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCGGACUCUUCAAAAA	Clivagem
sly-miR5303.2-3p	Solyc01g010250.2.1	1.5	13.218	1	21	1097	1117	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCGGACUUUUCAA AAA	Clivagem
sly-miR5303.2-3p	Solyc09g008790.2.1	2.0	19.415	1	21	1960	1980	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGGACUCUUCAGAU	Clivagem
sly-miR5303.2-3p	Solyc07g005730.2.1	2.0	17.347	1	21	347	367	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGGACUCUACAAAAA	Clivagem
sly-miR5303.2-3p	Solyc11g007360.1.1	1.5	12.108	1	21	705	725	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCAGACUCUUCAAAAA	Clivagem
sly-miR5303.2-3p	Solyc09g009550.2.1	1.5	12.617	1	21	1067	1087	UUUUUGAAGAGUUCGAGCAAC	GCUGCUCGAACUUUUCAA AAA	Clivagem
sly-miR5303.2-3p	Solyc05g055480.2.1	2.0	15.751	1	21	1619	1639	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCGAAUUUUUCGAAAA	Clivagem
sly-miR5303.2-3p	Solyc03g097450.2.1	1.5	23.06	1	21	1937	1957	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGGUCUCUUCAAAAA	Clivagem
sly-miR5303.2-3p	Solyc08g079800.2.1	2.0	13.379	1	21	530	550	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCAGACUCUUCAAAAA	Clivagem
sly-miR5303.2-3p	Solyc10g051170.1.1	2.5	15.273	1	21	876	896	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGAGUUUUUCAA AAA	Clivagem
sly-miR5303.2-3p	Solyc01g099560.2.1	2.5	15.162	1	21	797	817	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGAAUUUUUCAA UAA	Clivagem

sly-miR5303.2-3p	Solyc12g007100.1.1	2.5	16.852	1	21	775	795	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGAAUUCUUGGAAAA	Clivagem
sly-miR5303.2-3p	Solyc04g007830.2.1	2.0	16.781	1	20	481	500	UUUUUGAAGAGUUCGAGCAA	UUGUUUGGACUCUUUAAAAA	Clivagem
sly-miR5303.2-3p	Solyc07g018290.2.1	1.5	16.4	1	20	1420	1439	UUUUUGAAGAGUUCGAGCAA	UUACUCGAAUUCUUCAAAAA	Clivagem
sly-miR5303.2-3p	Solyc05g054720.2.1	2.5	17.133	1	21	849	869	UUUUUGAAGAGUUCGAGCAAC	GUUACUCGAACUCUCCAAAAA	Clivagem
sly-miR5303.2-3p	Solyc01g008100.2.1	2.5	15.48	1	21	992	1012	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGAACUGUUCAUAAA	Tradução
sly-miR5303.2-3p	Solyc05g053750.1.1	2.5	16.86	1	21	791	811	UUUUUGAAGAGUUCGAGCAAC	GUUGUGUGAACUCUUCAGAA	Clivagem
sly-miR5303.2-3p	Solyc06g082300.2.1	2.0	18.802	1	21	1366	1386	UUUUUGAAGAGUUCGAGCAAC	GAUGCUCGCACUCUUCAAAAA	Clivagem
sly-miR5303.2-3p	Solyc05g051580.2.1	2.5	17.181	1	21	1980	2000	UUUUUGAAGAGUUCGAGCAAC	GUUGGUCGGACUUUUCAAAAG	Clivagem
sly-miR5303.2-3p	Solyc09g013150.2.1	2.5	20.337	1	21	1699	1720	UUUUUGAAGAGU-UCGAGCAAC	GUUGCUUGAGACUCUUCAAAAA	Clivagem
sly-miR5303.2-3p	Solyc01g007800.2.1	2.0	15.807	1	20	681	700	UUUUUGAAGAGUUCGAGCAA	UUGUUCAAACUCUUCGAAAA	Clivagem
sly-miR5303.2-3p	Solyc09g007100.2.1	2.0	13.714	1	20	2316	2335	UUUUUGAAGAGUUCGAGCAA	UUGCUCGAGAUCUUCAAAAG	Tradução
sly-miR5303.2-3p	Solyc09g091200.2.1	3.0	14.495	1	21	1190	1210	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCGGACUUCUAAAAA	Clivagem
sly-miR5303.2-3p	Solyc08g007420.2.1	2.5	18.519	1	21	1219	1239	UUUUUGAAGAGUUCGAGCAAC	GUUGCCCGAAUCCUUCAAAAA	Tradução
sly-miR5303.2-3p	Solyc07g064900.2.1	3.0	16.565	1	21	1471	1491	UUUUUGAAGAGUUCGAGCAAC	GUUCCUCGGACUCUUCAAUAA	Clivagem
sly-miR5303.2-3p	Solyc09g098180.2.1	3.0	15.082	1	21	1060	1080	UUUUUGAAGAGUUCGAGCAAC	GUUGGUCGGAGUCUUUAAAAA	Tradução
sly-miR5303.2-3p	Solyc09g009510.2.1	3.0	15.581	1	21	1333	1353	UUUUUGAAGAGUUCGAGCAAC	GUCGUUGGGACUCUUCAAAAA	Clivagem
sly-miR5303.2-3p	Solyc05g008980.2.1	3.0	14.667	1	21	1938	1958	UUUUUGAAGAGUUCGAGCAAC	GUAGCUCGGACUCUUCGAAAA	Clivagem
sly-miR5303.2-3p	Solyc06g005620.2.1	3.0	14.384	1	20	1051	1070	UUUUUGAAGAGUUCGAGCAA	UUGUUCAGACUCUUCAAAAU	Clivagem
sly-miR5303.2-3p	Solyc06g005140.2.1	3.0	8.753	1	20	1376	1395	UUUUUGAAGAGUUCGAGCAA	GUUCUCGAAUUUUUUCAAAAA	Clivagem
sly-miR5303.2-3p	Solyc02g094030.2.1	3.0	21.764	1	20	622	641	UUUUUGAAGAGUUCGAGCAA	UUACUUGAGCUUUUCAAAGA	Clivagem
sly-miR5303.2-3p	Solyc01g008050.2.1	2.5	9.849	1	20	408	427	UUUUUGAAGAGUUCGAGCAA	UUUCUUAACUCUUCAAAAA	Clivagem
sly-miR5303.2-3p	Solyc08g023600.1.1	3.0	13.962	1	21	87	107	UUUUUGAAGAGUUCGAGCAAC	GGUGCUCUACUCUUCAAAAA	Clivagem
sly-miR5303.2-3p	Solyc01g010410.2.1	3.0	16.508	1	20	727	746	UUUUUGAAGAGUUCGAGCAA	UUGGUCGGACUCUCCAAAAA	Clivagem
sly-miR5303.2-3p	Solyc01g111180.2.1	3.0	17.969	1	20	48952	48971	UUUUUGAAGAGUUCGAGCAA	UUCUUGAGCUCUUUAAAAG	Clivagem
sly-miR5303.2-3p	Solyc06g060090.2.1	3.0	7.948	1	20	2272	2291	UUUUUGAAGAGUUCGAGCAA	UUGCUCAAAGUUUUCAGAAA	Tradução
sly-miR5303.2-3p	Solyc02g086500.2.1	3.0	14.919	1	20	3793	3812	UUUUUGAAGAGUUCGAGCAA	UUGCUUGCACUGUUCAGAAA	Tradução
sly-miR5303c-5p	Solyc09g013150.2.1	2.5	12.68	1	24	1726	1749	UUUUGGAGAAUCCGACACGCC	GGGUGUGUGUCGAAUUUGCCAAAA	Clivagem
sly-miR5303c-5p	Solyc09g098180.2.1	2.5	22.757	1	23	1090	1112	UUUUGGAGAAUCCGACACGCC	GGUGUGUGUUGAAUUCUUCAAAA	Clivagem
sly-miR5303c-5p	Solyc04g082560.2.1	2.0	19.841	1	24	4092	4115	UUUUGGAGAAUCCGACACGCC	GUGUAUGUGUCGAAUUUCCAAAA	Clivagem
sly-miR5303c-5p	Solyc00g084750.2.1	2.5	18.019	1	22	175	196	UUUUGGAGAAUCCGACACGC	GUGCAUGUCGGAUCCUCCGAAA	Tradução
sly-miR5303c-5p	Solyc02g087770.2.1	2.0	24.567	1	20	1426	1445	UUUUGGAGAAUCCGACACGC	CUGUGUCGGAUUCUUCAAAA	Clivagem
sly-miR5303c-5p	Solyc05g054750.2.1	3.0	16.964	1	22	283	304	UUUUGGAGAAUCCGACACGC	GUGUGUGUCGAAUCCUCUAAAA	Tradução
sly-miR5303c-5p	Solyc05g007570.2.1	2.5	23.445	1	21	2546	2566	UUUUGGAGAAUCCGACACGCA	UGCAUGUCAGAUUCUCUAAAA	Clivagem
sly-miR5303c-5p	Solyc04g015460.2.1	2.5	23.958	1	20	2659	2678	UUUUGGAGAAUCCGACACGC	UCGUGUCUGGUUCUCCAAAA	Clivagem
sly-miR5303c-5p	Solyc08g066340.1.1	3.0	15.109	1	20	59	78	UUUUGGAGAAUCCGACACGC	CCAUGUUGGAUUCUCUAAAA	Clivagem

sly-miR5303c-5p	Solyc02g068580.1.1	3.0	19.042	1	20	57	76	UUUUGGAGAAUCCGACACGC	UCGCGUCGGAUUCUCUAAGA	Clivagem
sly-miR5303c-5p	Solyc01g106900.2.1	3.0	12.571	1	20	1718	1737	UUUUGGAGAAUCCGACACGC	GUGUAUCCGAUUCUCCGAAA	Clivagem
sly-miR5303c-5p	Solyc05g008980.2.1	3.0	15.664	1	20	1968	1987	UUUUGGAGAAUCCGACACGC	GUGUAUUGGAUACUCCAAAA	Tradução
sly-miR5303f-3p	Solyc12g008670.1.1	1.5	14.706	1	24	584	607	AUUUUUGGAGAAUCUGACACGGGU	AUUCGUGUCAAAUUCUCCAGAAU	Clivagem
sly-miR5303f-3p	Solyc05g055200.2.1	2.0	17.654	1	24	1577	1600	AUUUUUGGAGAAUCUGACACGGGU	ACUCGUGUCAGAUCCUUCAGAAU	Tradução
sly-miR5303f-3p	Solyc08g005860.2.1	2.5	15.507	1	24	1664	1687	AUUUUUGGAGAAUCUGACACGGGU	ACCCGUCUCAAAUUCUUCAAAAU	Clivagem
sly-miR5303f-3p	Solyc04g015460.2.1	1.5	24.546	1	24	2657	2680	AUUUUUGGAGAAUCUGACACGGGU	AGUCGUGUCUGGUUCUCCAAAAU	Clivagem
sly-miR5303f-3p	Solyc08g005920.2.1	2.5	8.095	1	24	651	674	AUUUUUGGAGAAUCUGACACGGGU	AUCUGUCUCGAAUUCUCCAAAAU	Clivagem
sly-miR5303f-3p	Solyc05g007570.2.1	2.0	24.011	1	24	2545	2568	AUUUUUGGAGAAUCUGACACGGGU	AUGCAUGUCAGAUUCUCUAAAAU	Clivagem
sly-miR5303f-3p	Solyc03g005630.2.1	3.0	12.999	1	24	3193	3216	AUUUUUGGAGAAUCUGACACGGGU	AUCUGUGUCAGAUCCUUCUAAAAU	Tradução
sly-miR5303f-3p	Solyc07g005730.2.1	3.0	24.359	1	23	378	400	AUUUUUGGAGAAUCUGACACGGG	CCCGUGUCGUUUCUCCAAAAU	Tradução
sly-miR5303f-3p	Solyc04g082560.2.1	2.0	17.7	1	21	4097	4117	AUUUUUGGAGAAUCUGACACG	UGUGUCGGAUUUUCCAAAAC	Clivagem
sly-miR5303f-3p	Solyc04g079030.2.1	3.0	18.219	1	24	1275	1298	AUUUUUGGAGAAUCUGACACGGGU	GCUUGUGUUACAUUUUCUAGAAU	Clivagem
sly-miR5303f-3p	Solyc11g069580.1.1	3.0	17.378	1	24	495	518	AUUUUUGGAGAAUCUGACACGGGU	GCUUGUUUAUAGAUUCUUCAAAAU	Clivagem
sly-miR5303f-3p	Solyc10g005970.1.1	3.0	13.372	1	24	804	827	AUUUUUGGAGAAUCUGACACGGGU	ACCAGUGCCUGAGUCUCCAAAAU	Clivagem
sly-miR5303f-3p	Solyc01g096150.2.1	3.0	21.032	1	22	416	437	AUUUUUGGAGAAUCUGACACGG	CUGUGUCAGACCCUCCAGAGAU	Tradução
sly-miR5303f-3p	Solyc12g049180.1.1	2.5	11.36	1	20	703	722	AUUUUUGGAGAAUCUGACAC	GUGUCAUAAUUUCCAAAGGU	Clivagem
sly-miR5303f-3p	Solyc09g013150.2.1	3.0	13.626	1	21	1731	1751	AUUUUUGGAGAAUCUGACACG	UGUGUCGGAUUUGCCAAAAA	Tradução
sly-miR5303f-3p	Solyc09g098180.2.1	3.0	22.699	1	21	1094	1114	AUUUUUGGAGAAUCUGACACG	UGUGUUGAAUUCUUCAAAAGU	Clivagem
sly-miR5303f-3p	Solyc09g059410.1.1	3.0	23.572	1	20	162	181	AUUUUUGGAGAAUCUGACAC	GUCUCAGAUUCUUCGAAAAA	Clivagem
sly-miR5303f-3p	Solyc11g069770.1.1	3.0	18.684	1	20	80	99	AUUUUUGGAGAAUCUGACAC	GUGUCACAUUCUCUAAAAAGG	Clivagem
sly-miR5303f-3p	Solyc08g068590.2.1	3.0	21.668	1	21	572	592	AUUUUUGGAGAAUCUGACACG	UGGGUCAAAUUUCCAGAAU	Clivagem
sly-miR5303f-3p	Solyc06g062610.1.1	3.0	11.945	1	24	1065	1088	AUUUUUGGAGAAUCUGACACGGGU	ACAAGUGUUAGAUGAUCCAAAGAU	Tradução
sly-miR5303f-3p	Solyc04g082490.2.1	3.0	21.945	1	20	3415	3434	AUUUUUGGAGAAUCUGACAC	GUUUCUGAUUCUCUAAAGAU	Clivagem
sly-miR5303g-3p	Solyc11g007360.1.1	0.5	12.3	1	24	705	728	AUAUUUUUGAAGAGUCUGAGCAAC	GUUGCUCAGACUCUUCAAAAUGU	Clivagem
sly-miR5303g-3p	Solyc08g079800.2.1	0.5	21.179	1	24	530	553	AUAUUUUUGAAGAGUCUGAGCAAC	GUUGUUCAGACUCUUCAAAAUUAU	Clivagem
sly-miR5303g-3p	Solyc05g007570.2.1	1.5	22.088	1	24	2515	2538	AUAUUUUUGAAGAGUCUGAGCAAC	GUUGUUCGGACUCUUCAAAAUGU	Clivagem
sly-miR5303g-3p	Solyc07g005730.2.1	2.0	23.52	1	24	347	370	AUAUUUUUGAAGAGUCUGAGCAAC	GUUGCUCGGACUCUACAAAAUGU	Tradução
sly-miR5303g-3p	Solyc09g005500.2.1	3.0	9.641	1	24	540	563	AUAUUUUUGAAGAGUCUGAGCAAC	GUUGUUCAGACUCUUUAAAAUUGU	Clivagem
sly-miR5303g-3p	Solyc01g010250.2.1	3.0	13.215	1	24	1097	1120	AUAUUUUUGAAGAGUCUGAGCAAC	GUUGUUCGGACUUUUCAAAAAAU	Clivagem
sly-miR5303g-3p	Solyc03g034060.2.1	2.5	21.441	1	24	2442	2465	AUAUUUUUGAAGAGUCUGAGCAAC	GUUGUUCAGACUCUAUAAAAUGU	Tradução
sly-miR5303g-3p	Solyc05g008910.2.1	1.5	12.092	1	22	685	706	AUAUUUUUGAAGAGUCUGAGCA	UGUUCAGACUCUUCAGAAAUGU	Clivagem
sly-miR5303g-3p	Solyc04g007830.2.1	2.5	19.525	1	23	481	503	AUAUUUUUGAAGAGUCUGAGCAA	UUGUUUGGACUCUUUAAAAUGU	Clivagem
sly-miR5303g-3p	Solyc01g007800.2.1	2.0	18.268	1	23	681	703	AUAUUUUUGAAGAGUCUGAGCAA	UUGUUAACACUCUUCGAAAAUUAU	Clivagem
sly-miR5303g-3p	Solyc01g006220.2.1	3.0	22.309	1	24	1582	1605	AUAUUUUUGAAGAGUCUGAGCAAC	GUUGCUCAGACUUUCCAAAAUGC	Tradução

sly-miR5303g-3p	Solyc05g008980.2.1	1.5	14.328	1	24	1938	1961	AUAUUUUUGAAGAGUCUGAGCAAC	GUAGCUCCGACUCUUCGAAAAUUAU	Clivagem
sly-miR5303g-3p	Solyc01g009230.2.1	1.0	23.898	1	23	4136	4158	AUAUUUUUGAAGAGUCUGAGCAA	UUACUCGACUCUGCAAAAAUUAU	Tradução
sly-miR5303g-3p	Solyc09g009510.2.1	2.0	16.033	1	24	1333	1356	AUAUUUUUGAAGAGUCUGAGCAAC	GUCGUUGGGACUCUUCAAAAUUAU	Clivagem
sly-miR5303g-3p	Solyc04g082440.2.1	2.5	7.68	1	24	2400	2423	AUAUUUUUGAAGAGUCUGAGCAAC	GUUACUCAGACUUUUCAAAAUUGU	Clivagem
sly-miR5303g-3p	Solyc05g041520.1.1	2.5	19.193	1	22	45	66	AUAUUUUUGAAGAGUCUGAGCA	UGCUCAUUUUCUUCAGGAUUAU	Clivagem
sly-miR5303g-3p	Solyc11g011900.1.1	1.5	10.527	1	20	443	462	AUAUUUUUGAAGAGUCUGAG	AUCAGACUCUUCAGAAUUAU	Clivagem
sly-miR5303g-3p	Solyc07g018290.2.1	2.0	16.412	1	23	1420	1442	AUAUUUUUGAAGAGUCUGAGCAA	UUACUCGAAUUCUUCAAAAUUAU	Clivagem
sly-miR5303g-3p	Solyc06g082300.2.1	3.0	19.46	1	24	1366	1389	AUAUUUUUGAAGAGUCUGAGCAAC	GAUGCUCGCACUCUUCAAAAAAU	Clivagem
sly-miR5303g-3p	Solyc07g006740.2.1	2.5	12.191	1	24	1554	1577	AUAUUUUUGAAGAGUCUGAGCAAC	GGUGCUUAAACUCUCCAAAAUUAU	Tradução
sly-miR5303g-3p	Solyc08g023600.1.1	3.0	12.104	1	24	87	110	AUAUUUUUGAAGAGUCUGAGCAAC	GGUGCUCUUCUCUUCAAAAUAC	Clivagem
sly-miR5303g-3p	Solyc05g054720.2.1	3.0	14.485	1	24	849	872	AUAUUUUUGAAGAGUCUGAGCAAC	GUUACUCGAACUCUCCAAAAUUGU	Tradução
sly-miR5303g-3p	Solyc07g006860.2.1	2.0	15.915	1	24	1051	1074	AUAUUUUUGAAGAGUCUGAGCAAC	GGUUUUCAGACUCUUUUAAAAUUAU	Clivagem
sly-miR5303g-3p	Solyc07g041910.2.1	2.5	17.07	1	20	399	418	AUAUUUUUGAAGAGUCUGAG	CUCGGAUUCUUCAAAAGUAC	Clivagem
sly-miR5303g-3p	Solyc11g010140.1.1	2.5	15.483	1	20	143	162	AUAUUUUUGAAGAGUCUGAG	CUCAGACUCCUUCAAAAUGC	Tradução
sly-miR5303g-3p	Solyc08g005860.2.1	2.5	16.772	1	20	1670	1689	AUAUUUUUGAAGAGUCUGAG	CUCAAUUCUUCAAAAUAC	Clivagem
sly-miR5303g-3p	Solyc12g006610.1.1	2.5	23.801	1	20	306	325	AUAUUUUUGAAGAGUCUGAG	CGCGGACUCUUCAAAGGUUAU	Clivagem
sly-miR5303g-3p	Solyc04g049940.2.1	3.0	11.123	1	20	654	673	AUAUUUUUGAAGAGUCUGAG	UUCAGAUUCUUCGAUAAUUAU	Clivagem
sly-miR5303g-3p	Solyc03g070390.2.1	3.0	14.443	1	20	137	156	AUAUUUUUGAAGAGUCUGAG	CUUAGAUUUUUUAGAAUUGU	Clivagem
sly-miR5303g-3p	Solyc05g014240.2.1	2.5	15.086	1	20	432	451	AUAUUUUUGAAGAGUCUGAG	UUCAGAAUCUUCAGGAUUAU	Clivagem
sly-miR5303g-3p	Solyc09g005180.2.1	3.0	22.058	1	24	1535	1558	AUAUUUUUGAAGAGUCUGAGCAAC	GUCCCCUAGACUCUUUGAAGAUUAU	Clivagem
sly-miR5303g-3p	Solyc06g068990.2.1	3.0	20.989	1	22	1329	1350	AUAUUUUUGAAGAGUCUGAGCA	UCCUCAGAUGCUCUUCAGGAGUAU	Clivagem
sly-miR5303g-3p	Solyc04g010230.2.1	3.0	21.145	1	20	1051	1071	AUAUUUUUGA-AGAGUCUGAG	CUCAGACUCUCUCAAAGGUUAU	Tradução
sly-miR5303h.1-3p	Solyc11g007360.1.1	1.0	11.621	1	24	706	729	AACAUUUUUGAAGAGUCUGAGCAA	UUGCUCAGACUCUUCAAAAUGUC	Clivagem
sly-miR5303h.1-3p	Solyc05g007570.2.1	1.5	23.997	1	24	2516	2539	AACAUUUUUGAAGAGUCUGAGCAA	UUGUUCGACUCUUCAAAAUGUC	Clivagem
sly-miR5303h.1-3p	Solyc07g005730.2.1	1.5	23.401	1	24	348	371	AACAUUUUUGAAGAGUCUGAGCAA	UUGCUCGACUCUACAAAAUGUU	Tradução
sly-miR5303h.1-3p	Solyc08g079800.2.1	1.5	21.859	1	24	531	554	AACAUUUUUGAAGAGUCUGAGCAA	UUGUUCAGACUCUUCAAAAUAUU	Clivagem
sly-miR5303h.1-3p	Solyc03g034060.2.1	1.5	21.392	1	24	2443	2466	AACAUUUUUGAAGAGUCUGAGCAA	UUGUUCAGACUCUAUAAAAUGUU	Tradução
sly-miR5303h.1-3p	Solyc05g008910.2.1	1.5	12.073	1	23	685	707	AACAUUUUUGAAGAGUCUGAGCA	UGUUCAGACUCUUCAGAAUGUC	Clivagem
sly-miR5303h.1-3p	Solyc04g007830.2.1	2.5	21.001	1	24	481	504	AACAUUUUUGAAGAGUCUGAGCAA	UUGUUUGGACUCUUUAAAAUGUC	Clivagem
sly-miR5303h.1-3p	Solyc09g005500.2.1	3.0	9.455	1	24	541	564	AACAUUUUUGAAGAGUCUGAGCAA	UUGUUCAGACUCUUUAAAAUUGUG	Clivagem
sly-miR5303h.1-3p	Solyc01g006220.2.1	3.0	23.585	1	24	1583	1606	AACAUUUUUGAAGAGUCUGAGCAA	UUGCUCAGACUUUCCAAAAUGCU	Tradução
sly-miR5303h.1-3p	Solyc04g082440.2.1	2.0	7.68	1	24	2401	2424	AACAUUUUUGAAGAGUCUGAGCAA	UUACUCAGACUUUUCAAAAUUGUU	Clivagem
sly-miR5303h.1-3p	Solyc04g015460.2.1	3.0	20.063	1	24	2628	2651	AACAUUUUUGAAGAGUCUGAGCAA	UUGCUCAAACACUCCAAAAUGUU	Tradução
sly-miR5303h.1-3p	Solyc01g009230.2.1	2.5	24.168	1	24	4136	4159	AACAUUUUUGAAGAGUCUGAGCAA	UUACUCAGACUCUGCAAAAAUAUU	Tradução
sly-miR5303h.1-3p	Solyc07g006860.2.1	1.5	14.039	1	23	942	964	AACAUUUUUGAAGAGUCUGAGCA	UUUUCAGACUCUUUAAAAUGUU	Tradução

sly-miR5303h.1-3p	Solyc05g054720.2.1	2.5	15.42	1	24	850	873	AACAUUUUUGAAGAGUCUGAGCAA	UUACUCGAACUCUCCAAAAAUGUU	Tradução
sly-miR5303h.1-3p	Solyc05g008980.2.1	3.0	17.519	1	24	1939	1962	AACAUUUUUGAAGAGUCUGAGCAA	UAGCUCCGACUCUUCGAAAAUAUU	Clivagem
sly-miR5303h.1-3p	Solyc10g086540.1.1	3.0	17.997	1	24	804	827	AACAUUUUUGAAGAGUCUGAGCAA	UGGUUCAGAUUUUUUGGAGAUGUU	Clivagem
sly-miR5303h.1-3p	Solyc11g010140.1.1	2.5	15.453	1	21	143	163	AACAUUUUUGAAGAGUCUGAG	CUCAGACUCCUCAAAAAUGCU	Clivagem
sly-miR5303h.1-3p	Solyc09g009510.2.1	3.0	16.133	1	24	1334	1357	AACAUUUUUGAAGAGUCUGAGCAA	UCGUUGGGACUCUUCAAAAUAUU	Clivagem
sly-miR5303h.1-3p	Solyc06g061030.2.1	3.0	13.308	1	24	1961	1984	AACAUUUUUGAAGAGUCUGAGCAA	UGGCUUAGAUUGAUCAAAAAUGUU	Clivagem
sly-miR5303h.1-3p	Solyc09g091980.2.1	3.0	20.785	1	20	738	757	AACAUUUUUGAAGAGUCUGA	CUGGACUCUUCAAAAUGUC	Clivagem
sly-miR5303h.1-3p	Solyc11g011900.1.1	3.0	10.486	1	20	444	463	AACAUUUUUGAAGAGUCUGA	UCAGACUCUUCAGAAUAUG	Clivagem
sly-miR5303h.1-3p	Solyc09g089810.1.1	3.0	14.132	1	22	920	941	AACAUUUUUGAAGAGUCUGAGC	GUUCGGAUCUCCAAAGAUGUU	Tradução
sly-miR5303h.1-3p	Solyc11g071720.1.1	3.0	12.385	1	21	906	926	AACAUUUUUGAAGAGUCUGAG	UUCAGAAUCUUCAAAGAAGUU	Clivagem
sly-miR5303h.1-3p	Solyc01g100020.2.1	2.5	21.094	1	21	3511	3531	AACAUUUUUGAAGAGUCUGAG	UUCAGUGUUUUCAAAAUGUU	Clivagem
sly-miR5303h.1-3p	Solyc02g068020.1.1	3.0	10.5	1	24	34	57	AACAUUUUUGAAGAGUCUGAGCAA	UCGAUAAAACUUUUUAAAAAUGUU	Clivagem
sly-miR5303h.1-3p	Solyc01g097670.2.1	3.0	10.737	1	20	2384	2403	AACAUUUUUGAAGAGUCUGA	UCAGAAUUUUCAAAAAUCUU	Clivagem
sly-miR5303h.1-3p	Solyc07g065190.2.1	3.0	13.314	1	20	597	616	AACAUUUUUGAAGAGUCUGA	CCAAAGUCUUCAAAAAUGUU	Clivagem
sly-miR5303h.2-3p	Solyc11g007360.1.1	1.0	11.621	1	24	706	729	AACAUUUUUGAAGAGUCUGAGCAA	UUGCUCAGACUCUUCAAAAUGUC	Clivagem
sly-miR5303h.2-3p	Solyc05g007570.2.1	1.5	23.997	1	24	2516	2539	AACAUUUUUGAAGAGUCUGAGCAA	UUGUUCGGACUCUUCAAAAUGUC	Clivagem
sly-miR5303h.2-3p	Solyc07g005730.2.1	1.5	23.401	1	24	348	371	AACAUUUUUGAAGAGUCUGAGCAA	UUGCUCGGACUCUACAAAAAUGUU	Tradução
sly-miR5303h.2-3p	Solyc08g079800.2.1	1.5	21.859	1	24	531	554	AACAUUUUUGAAGAGUCUGAGCAA	UUGUUCAGACUCUUCAAAAUAUU	Clivagem
sly-miR5303h.2-3p	Solyc03g034060.2.1	1.5	21.392	1	24	2443	2466	AACAUUUUUGAAGAGUCUGAGCAA	UUGUUCAGACUCUAUAAAAAUGUU	Tradução
sly-miR5303h.2-3p	Solyc05g008910.2.1	1.5	12.073	1	23	685	707	AACAUUUUUGAAGAGUCUGAGCA	UGUUCAGACUCUUCAGAAUGUC	Clivagem
sly-miR5303h.2-3p	Solyc04g007830.2.1	2.5	21.001	1	24	481	504	AACAUUUUUGAAGAGUCUGAGCAA	UUGUUUGGACUCUUUAAAAUGUC	Clivagem
sly-miR5303h.2-3p	Solyc09g005500.2.1	3.0	9.455	1	24	541	564	AACAUUUUUGAAGAGUCUGAGCAA	UUGUUCAGACUCUUUAAUAUGUG	Clivagem
sly-miR5303h.2-3p	Solyc01g006220.2.1	3.0	23.585	1	24	1583	1606	AACAUUUUUGAAGAGUCUGAGCAA	UUGCUCAGACUUUCCAAAAUGCU	Tradução
sly-miR5303h.2-3p	Solyc04g082440.2.1	2.0	7.68	1	24	2401	2424	AACAUUUUUGAAGAGUCUGAGCAA	UUACUCAGACUUUUCAAAAUUGUU	Clivagem
sly-miR5303h.2-3p	Solyc04g015460.2.1	3.0	20.063	1	24	2628	2651	AACAUUUUUGAAGAGUCUGAGCAA	UUGCUCAAACACUCCAAAAAUGUU	Tradução
sly-miR5303h.2-3p	Solyc01g009230.2.1	2.5	24.168	1	24	4136	4159	AACAUUUUUGAAGAGUCUGAGCAA	UUACUCAGACUCUGCAAAAAUAUU	Tradução
sly-miR5303h.2-3p	Solyc07g006860.2.1	1.5	14.039	1	23	942	964	AACAUUUUUGAAGAGUCUGAGCA	UUUUCAGACUCUUUAAAAUGUU	Tradução
sly-miR5303h.2-3p	Solyc05g054720.2.1	2.5	15.42	1	24	850	873	AACAUUUUUGAAGAGUCUGAGCAA	UUACUCGAACUCUCCAAAAAUGUU	Tradução
sly-miR5303h.2-3p	Solyc05g008980.2.1	3.0	17.519	1	24	1939	1962	AACAUUUUUGAAGAGUCUGAGCAA	UAGCUCCGACUCUUCGAAAAUAUU	Clivagem
sly-miR5303h.2-3p	Solyc10g086540.1.1	3.0	17.997	1	24	804	827	AACAUUUUUGAAGAGUCUGAGCAA	UGGUUCAGAUUUUUUGGAGAUGUU	Clivagem
sly-miR5303h.2-3p	Solyc11g010140.1.1	2.5	15.453	1	21	143	163	AACAUUUUUGAAGAGUCUGAG	CUCAGACUCCUCAAAAAUGCU	Clivagem
sly-miR5303h.2-3p	Solyc09g009510.2.1	3.0	16.133	1	24	1334	1357	AACAUUUUUGAAGAGUCUGAGCAA	UCGUUGGGACUCUUCAAAAUAUU	Clivagem
sly-miR5303h.2-3p	Solyc06g061030.2.1	3.0	13.308	1	24	1961	1984	AACAUUUUUGAAGAGUCUGAGCAA	UGGCUUAGAUUGAUCAAAAAUGUU	Clivagem
sly-miR5303h.2-3p	Solyc09g091980.2.1	3.0	20.785	1	20	738	757	AACAUUUUUGAAGAGUCUGA	CUGGACUCUUCAAAAUGUC	Clivagem
sly-miR5303h.2-3p	Solyc11g011900.1.1	3.0	10.486	1	20	444	463	AACAUUUUUGAAGAGUCUGA	UCAGACUCUUCAGAAUAUG	Clivagem

sly-miR5303h.2-3p	Solyc09g089810.1.1	3.0	14.132	1	22	920	941	AACAUUUUUGAAGAGUCUGAGC	GUUCGGAUUCUCCAAAGAUGUU	Tradução
sly-miR5303h.2-3p	Solyc11g071720.1.1	3.0	12.385	1	21	906	926	AACAUUUUUGAAGAGUCUGAG	UUCAGAAUCUUCAAAGAAGUU	Clivagem
sly-miR5303h.2-3p	Solyc01g100020.2.1	2.5	21.094	1	21	3511	3531	AACAUUUUUGAAGAGUCUGAG	UUCAGUGUUUUCAAAAAUGUU	Clivagem
sly-miR5303h.2-3p	Solyc02g068020.1.1	3.0	10.5	1	24	34	57	AACAUUUUUGAAGAGUCUGAGCAA	UCGAUAAAACUUUUUAAAAAUGUU	Clivagem
sly-miR5303h.2-3p	Solyc01g097670.2.1	3.0	10.737	1	20	2384	2403	AACAUUUUUGAAGAGUCUGA	UCAGAAUUUUUCAA AAAAUCUU	Clivagem
sly-miR5303h.2-3p	Solyc07g065190.2.1	3.0	13.314	1	20	597	616	AACAUUUUUGAAGAGUCUGA	CCAAAGUCUUCAAAAAUGUU	Clivagem
sly-miR5303j.1-5p	Solyc08g079800.2.1	0.0	21.859	1	24	531	554	AAUAUUUUUGAAGAGUCUGAGCAA	UUGUUCAGACUCUUCAAAAUAUU	Clivagem
sly-miR5303j.1-5p	Solyc11g007360.1.1	1.5	11.621	1	24	706	729	AAUAUUUUUGAAGAGUCUGAGCAA	UUGCUCAGACUCUUCAAAAUGUC	Clivagem
sly-miR5303j.1-5p	Solyc05g007570.2.1	2.0	23.997	1	24	2516	2539	AAUAUUUUUGAAGAGUCUGAGCAA	UUGUUCGGACUCUUCAAAAUGUC	Clivagem
sly-miR5303j.1-5p	Solyc07g005730.2.1	2.0	23.401	1	24	348	371	AAUAUUUUUGAAGAGUCUGAGCAA	UUGCUCGGACUCUACAAAAAUGUU	Tradução
sly-miR5303j.1-5p	Solyc01g010250.2.1	2.5	13.168	1	24	1098	1121	AAUAUUUUUGAAGAGUCUGAGCAA	UUGUUCGGACUUUUCAA AAAAUAUU	Clivagem
sly-miR5303j.1-5p	Solyc03g034060.2.1	2.0	21.392	1	24	2443	2466	AAUAUUUUUGAAGAGUCUGAGCAA	UUGUUCAGACUCUAUAAAAAUGUU	Tradução
sly-miR5303j.1-5p	Solyc01g009230.2.1	1.0	24.168	1	24	4136	4159	AAUAUUUUUGAAGAGUCUGAGCAA	UUACUCAGACUCUGCAAAAAUAUU	Tradução
sly-miR5303j.1-5p	Solyc05g008910.2.1	2.0	12.073	1	23	685	707	AAUAUUUUUGAAGAGUCUGAGCA	UGUUCAGACUCUUCAGAAUGUC	Clivagem
sly-miR5303j.1-5p	Solyc04g007830.2.1	3.0	21.001	1	24	481	504	AAUAUUUUUGAAGAGUCUGAGCAA	UUGUUUGGACUCUUUAAAAAUGUC	Clivagem
sly-miR5303j.1-5p	Solyc01g007800.2.1	2.5	17.839	1	24	681	704	AAUAUUUUUGAAGAGUCUGAGCAA	UUGUUCAAACUCUUCGAAAAUAUA	Clivagem
sly-miR5303j.1-5p	Solyc05g008980.2.1	1.5	17.519	1	24	1939	1962	AAUAUUUUUGAAGAGUCUGAGCAA	UAGCUCCGACUCUUCGAAAAUAUU	Clivagem
sly-miR5303j.1-5p	Solyc09g009510.2.1	1.5	16.133	1	24	1334	1357	AAUAUUUUUGAAGAGUCUGAGCAA	UCGUUGGGACUCUUCAAAAUAUU	Clivagem
sly-miR5303j.1-5p	Solyc07g018290.2.1	2.0	16.895	1	24	1420	1443	AAUAUUUUUGAAGAGUCUGAGCAA	UUACUCGAAUUCUUCAAAAUAUU	Clivagem
sly-miR5303j.1-5p	Solyc04g082440.2.1	2.5	7.68	1	24	2401	2424	AAUAUUUUUGAAGAGUCUGAGCAA	UUACUCAGACUUUUCAA AAUUGUU	Clivagem
sly-miR5303j.1-5p	Solyc06g082300.2.1	3.0	20.255	1	23	1368	1390	AAUAUUUUUGAAGAGUCUGAGCA	UGCUCGCACUCUUCAAAAAAUU	Clivagem
sly-miR5303j.1-5p	Solyc07g006740.2.1	2.5	12.335	1	23	1556	1578	AAUAUUUUUGAAGAGUCUGAGCA	UGC UUAACUCUCCAAAAUAUU	Tradução
sly-miR5303j.1-5p	Solyc11g011900.1.1	1.5	10.486	1	20	444	463	AAUAUUUUUGAAGAGUCUGA	UCAGACUCUUCAGAAUAUG	Clivagem
sly-miR5303j.1-5p	Solyc07g006860.2.1	1.5	16.179	1	23	1053	1075	AAUAUUUUUGAAGAGUCUGAGCA	UUUUCAGACUCUUUAAAAUAUU	Tradução
sly-miR5303j.1-5p	Solyc01g010410.2.1	3.0	18.179	1	24	727	750	AAUAUUUUUGAAGAGUCUGAGCAA	UUGGUCGGACUCUCCAAAAUAUU	Tradução
sly-miR5303j.1-5p	Solyc04g049940.2.1	2.5	11.123	1	21	654	674	AAUAUUUUUGAAGAGUCUGAG	UUCAGAUUCUUCGAUAUAUU	Clivagem
sly-miR5303j.1-5p	Solyc05g054720.2.1	3.0	15.42	1	24	850	873	AAUAUUUUUGAAGAGUCUGAGCAA	UUACUCGAACUCUCCAAAAAUGUU	Tradução
sly-miR5303j.1-5p	Solyc02g084590.2.1	3.0	18.336	1	22	958	979	AAUAUUUUUGAAGAGUCUGAGC	GUUCAGAGUUUUUGAAGAUUU	Clivagem
sly-miR5303j.1-5p	Solyc11g010140.1.1	3.0	15.453	1	21	143	163	AAUAUUUUUGAAGAGUCUGAG	CUCAGACUCCUCAA AAAUGCU	Clivagem
sly-miR5303j.1-5p	Solyc09g005180.2.1	3.0	21.863	1	21	1539	1559	AAUAUUUUUGAAGAGUCUGAG	CCUAGACUCUUUGAAGAUUU	Clivagem
sly-miR5303j.1-5p	Solyc06g053320.2.1	3.0	12.009	1	24	2938	2961	AAUAUUUUUGAAGAGUCUGAGCAA	UUUUGUAGUCUCUUCGAAAAUAUU	Clivagem
sly-miR5303j.1-5p	Solyc07g017430.2.1	2.5	16.144	1	21	2032	2052	AAUAUUUUUGAAGAGUCUGAG	UUAGGACUCUUCAGAGAUUU	Clivagem
sly-miR5303j.1-5p	Solyc04g010230.2.1	3.0	22.669	1	21	1051	1072	AAUAUUUUUGA-AGAGUCUGAG	CUCAGACUCUCUCAAAGGAUU	Clivagem
sly-miR5303j.1-5p	Solyc05g014240.2.1	3.0	15.364	1	21	432	452	AAUAUUUUUGAAGAGUCUGAG	UUCAGAAUCUUCAGGAUAUA	Clivagem
sly-miR5303j.1-5p	Solyc06g011590.1.1	3.0	14.533	1	23	847	869	AAUAUUUUUGAAGAGUCUGAGCA	UCUUCAUGGUUUCAA AAAUAUU	Clivagem

sly-miR5303j.1-5p	Solyc01g097670.2.1	3.0	10.737	1	20	2384	2403	AAUAUUUUUGAAGAGUCUGA	UCAGAAUUUUCAAAAAUCUU	Clivagem
sly-miR5303j.1-5p	Solyc03g031890.2.1	3.0	15.109	1	21	165	185	AAUAUUUUUGAAGAGUCUGAG	UUCUGAUUCUUCUGAAUAUU	Tradução
sly-miR5303j.1-5p	Solyc01g100020.2.1	3.0	21.094	1	21	3511	3531	AAUAUUUUUGAAGAGUCUGAG	UUCAGUGUUUUCAAAAUGUU	Clivagem
sly-miR5303j.2-3p	Solyc08g079800.2.1	0.0	21.859	1	24	531	554	AAUAUUUUUGAAGAGUCUGAGCAA	UUGUUCAGACUCUUCAAAAUAUU	Clivagem
sly-miR5303j.2-3p	Solyc11g007360.1.1	1.5	11.621	1	24	706	729	AAUAUUUUUGAAGAGUCUGAGCAA	UUGCUCAGACUCUUCAAAAUGUC	Clivagem
sly-miR5303j.2-3p	Solyc05g007570.2.1	2.0	23.997	1	24	2516	2539	AAUAUUUUUGAAGAGUCUGAGCAA	UUGUUCGGACUCUUCAAAAUGUC	Clivagem
sly-miR5303j.2-3p	Solyc07g005730.2.1	2.0	23.401	1	24	348	371	AAUAUUUUUGAAGAGUCUGAGCAA	UUGCUCGGACUCUACAAAAUGUU	Tradução
sly-miR5303j.2-3p	Solyc01g010250.2.1	2.5	13.168	1	24	1098	1121	AAUAUUUUUGAAGAGUCUGAGCAA	UUGUUCGGACUUUUCAAAAAUUU	Clivagem
sly-miR5303j.2-3p	Solyc03g034060.2.1	2.0	21.392	1	24	2443	2466	AAUAUUUUUGAAGAGUCUGAGCAA	UUGUUCAGACUCUAUAAAAUGUU	Tradução
sly-miR5303j.2-3p	Solyc01g009230.2.1	1.0	24.168	1	24	4136	4159	AAUAUUUUUGAAGAGUCUGAGCAA	UUACUCAGACUCUGCAAAAAUAUU	Tradução
sly-miR5303j.2-3p	Solyc05g008910.2.1	2.0	12.073	1	23	685	707	AAUAUUUUUGAAGAGUCUGAGCA	UGUUCAGACUCUUCAGAAUGUC	Clivagem
sly-miR5303j.2-3p	Solyc04g007830.2.1	3.0	21.001	1	24	481	504	AAUAUUUUUGAAGAGUCUGAGCAA	UUGUUUGGACUCUUUAAAAUGUC	Clivagem
sly-miR5303j.2-3p	Solyc01g007800.2.1	2.5	17.839	1	24	681	704	AAUAUUUUUGAAGAGUCUGAGCAA	UUGUUCAAACUCUUCGAAAAUAUA	Clivagem
sly-miR5303j.2-3p	Solyc05g008980.2.1	1.5	17.519	1	24	1939	1962	AAUAUUUUUGAAGAGUCUGAGCAA	UAGCUCCGACUCUUCGAAAAUAUU	Clivagem
sly-miR5303j.2-3p	Solyc09g009510.2.1	1.5	16.133	1	24	1334	1357	AAUAUUUUUGAAGAGUCUGAGCAA	UCGUUGGGACUCUUCAAAAUAUU	Clivagem
sly-miR5303j.2-3p	Solyc07g018290.2.1	2.0	16.895	1	24	1420	1443	AAUAUUUUUGAAGAGUCUGAGCAA	UUACUCGAAUUCUUCAAAAUAUU	Clivagem
sly-miR5303j.2-3p	Solyc04g082440.2.1	2.5	7.68	1	24	2401	2424	AAUAUUUUUGAAGAGUCUGAGCAA	UUACUCAGACUUUUCAAAAUGUU	Clivagem
sly-miR5303j.2-3p	Solyc06g082300.2.1	3.0	20.255	1	23	1368	1390	AAUAUUUUUGAAGAGUCUGAGCA	UGCUCGCACUCUUCAAAAAUUU	Clivagem
sly-miR5303j.2-3p	Solyc07g006740.2.1	2.5	12.335	1	23	1556	1578	AAUAUUUUUGAAGAGUCUGAGCA	UGCUUAAACUCUCCAAAAUAUU	Tradução
sly-miR5303j.2-3p	Solyc11g011900.1.1	1.5	10.486	1	20	444	463	AAUAUUUUUGAAGAGUCUGA	UCAGACUCUUCAGAAUAUG	Clivagem
sly-miR5303j.2-3p	Solyc07g006860.2.1	1.5	16.179	1	23	1053	1075	AAUAUUUUUGAAGAGUCUGAGCA	UUUUCAGACUCUUUAAAAUAUU	Tradução
sly-miR5303j.2-3p	Solyc01g010410.2.1	3.0	18.179	1	24	727	750	AAUAUUUUUGAAGAGUCUGAGCAA	UUGGUCGGACUCUCCAAAAUAUU	Tradução
sly-miR5303j.2-3p	Solyc04g049940.2.1	2.5	11.123	1	21	654	674	AAUAUUUUUGAAGAGUCUGAG	UUCAGAUUCUUCGAUAUAUU	Clivagem
sly-miR5303j.2-3p	Solyc05g054720.2.1	3.0	15.42	1	24	850	873	AAUAUUUUUGAAGAGUCUGAGCAA	UUACUCGAACUCUCCAAAAUGUU	Tradução
sly-miR5303j.2-3p	Solyc02g084590.2.1	3.0	18.336	1	22	958	979	AAUAUUUUUGAAGAGUCUGAGC	GUUCAGAGUUUUUGAAGUAUU	Clivagem
sly-miR5303j.2-3p	Solyc11g010140.1.1	3.0	15.453	1	21	143	163	AAUAUUUUUGAAGAGUCUGAG	CUCAGACUCCUCAAAAAUGCU	Clivagem
sly-miR5303j.2-3p	Solyc09g005180.2.1	3.0	21.863	1	21	1539	1559	AAUAUUUUUGAAGAGUCUGAG	CCUAGACUCUUUGAAGUAUU	Clivagem
sly-miR5303j.2-3p	Solyc06g053320.2.1	3.0	12.009	1	24	2938	2961	AAUAUUUUUGAAGAGUCUGAGCAA	UUUUGUAGUCUCUUCGAAAAUAUU	Clivagem
sly-miR5303j.2-3p	Solyc07g017430.2.1	2.5	16.144	1	21	2032	2052	AAUAUUUUUGAAGAGUCUGAG	UUAGGACUCUUCAGAGUAUU	Clivagem
sly-miR5303j.2-3p	Solyc04g010230.2.1	3.0	22.669	1	21	1051	1072	AAUAUUUUUGA-AGAGUCUGAG	CUCAGACUCUCUCAAAGGUAUU	Clivagem
sly-miR5303j.2-3p	Solyc05g014240.2.1	3.0	15.364	1	21	432	452	AAUAUUUUUGAAGAGUCUGAG	UUCAGAAUCUUCAGGAUAUA	Clivagem
sly-miR5303j.2-3p	Solyc06g011590.1.1	3.0	14.533	1	23	847	869	AAUAUUUUUGAAGAGUCUGAGCA	UCUUCAUUGGUUUCAAAAAUAUU	Clivagem
sly-miR5303j.2-3p	Solyc01g097670.2.1	3.0	10.737	1	20	2384	2403	AAUAUUUUUGAAGAGUCUGA	UCAGAAUUUUCAAAAAUCUU	Clivagem
sly-miR5303j.2-3p	Solyc03g031890.2.1	3.0	15.109	1	21	165	185	AAUAUUUUUGAAGAGUCUGAG	UUCUGAUUCUUCUGAAUAUU	Tradução
sly-miR5303j.2-3p	Solyc01g100020.2.1	3.0	21.094	1	21	3511	3531	AAUAUUUUUGAAGAGUCUGAG	UUCAGUGUUUUCAAAAUGUU	Clivagem

sly-miR5304-3p	Solyc06g074580.1.1	2.5	18.092	1	21	94	114	AGAUGAGUAUGGUGCAUUGGA	UCCAAUGCACUGGGCUCAUCU	Tradução
sly-miR5304-3p	Solyc09g090980.2.1	3.0	1.329	1	21	15	35	AGAUGAGUAUGGUGCAUUGGA	UUCAAGCAUUAUUAUUCU	Clivagem
sly-miR5304-3p	Solyc06g053790.2.1	3.0	15.977	1	20	1019	1038	AGAUGAGUAUGGUGCAUUGG	AGAGUGUACCAUACUCAUCU	Clivagem
sly-miR5304-3p	Solyc01g102360.1.1	2.5	15.019	1	21	1284	1304	AGAUGAGUAUGGUGCAUUGGA	UCCAUUGCACCCUAUUCU	Tradução
sly-miR5304-3p	Solyc03g098200.2.1	3.0	15.33	1	21	538	558	AGAUGAGUAUGGUGCAUUGGA	UCCAGUGCAACCUAUUCU	Tradução
sly-miR5304-3p	Solyc01g097170.2.1	2.5	6.735	1	20	131	150	AGAUGAGUAUGGUGCAUUGG	CCAAUUCACCAUCUUCU	Clivagem
sly-miR5304-5p	Solyc04g076150.2.1	3.0	6.549	1	20	1138	1157	UCAAUGCUACAUACUCAUCC	AGAUGAGUAUGUAGUAAUGA	Clivagem
sly-miR5532.2-3p	Solyc02g089920.1.1	3.0	17.666	1	22	17	38	AUGGAAUAUAUGACAAGGUGG	UUAUCUUUUUCAUAAGUCCAU	Clivagem
sly-miR5532.2-5p	Solyc02g089920.1.1	3.0	17.666	1	22	17	38	AUGGAAUAUAUGACAAGGUGG	UUAUCUUUUUCAUAAGUCCAU	Clivagem
sly-miR6024-3p	Solyc05g008070.2.1	1.0	20.681	1	22	543	564	UUUUAGCAAGAGUUGUUUUACC	GGUAAGACAACUCUUGCUAGAA	Clivagem
sly-miR6024-3p	Solyc12g005970.1.1	2.0	18.518	1	22	508	529	UUUUAGCAAGAGUUGUUUUACC	GGUAAAACAACUCUUGCGAAGA	Clivagem
sly-miR6024-3p	Solyc02g070410.1.1	2.0	21.74	1	22	136	157	UUUUAGCAAGAGUUGUUUUACC	GGUAAGACAACUCUUGCCAAAA	Clivagem
sly-miR6024-3p	Solyc11g006520.1.1	2.0	21.292	1	22	526	547	UUUUAGCAAGAGUUGUUUUACC	GGUAAGACAACUCUUGCCAAAA	Clivagem
sly-miR6024-3p	Solyc11g069020.1.1	1.5	21.99	1	22	571	592	UUUUAGCAAGAGUUGUUUUACC	GGUAAAACCACUCUUGCUAAGA	Clivagem
sly-miR6024-3p	Solyc11g065780.1.1	2.0	14.182	1	22	469	490	UUUUAGCAAGAGUUGUUUUACC	GGUAAGACAACACUUGCUAAAAG	Tradução
sly-miR6024-3p	Solyc11g070000.1.1	2.0	23.705	1	22	544	565	UUUUAGCAAGAGUUGUUUUACC	GGUAAGACAACACUUGCUAAAAG	Tradução
sly-miR6024-3p	Solyc10g008230.1.1	2.0	18.537	1	22	511	532	UUUUAGCAAGAGUUGUUUUACC	GGCAAAACGACUCUUGCUAGAA	Clivagem
sly-miR6024-3p	Solyc04g015220.2.1	2.5	21.977	1	22	388	409	UUUUAGCAAGAGUUGUUUUACC	GGUAAGACAACUUUUGCCAAAA	Clivagem
sly-miR6024-3p	Solyc11g006640.1.1	2.5	24.997	1	22	547	568	UUUUAGCAAGAGUUGUUUUACC	GGUAAGACAACUCUUGCCAGAA	Clivagem
sly-miR6024-3p	Solyc11g006630.1.1	2.5	23.542	1	22	547	568	UUUUAGCAAGAGUUGUUUUACC	GGUAAGACAACUCUUGCCAGAA	Clivagem
sly-miR6024-3p	Solyc10g008240.2.1	2.0	17.623	1	22	511	532	UUUUAGCAAGAGUUGUUUUACC	GGCAAAACGACUCUUGCUAGAA	Clivagem
sly-miR6024-3p	Solyc11g071420.1.1	2.0	22.088	1	22	637	658	UUUUAGCAAGAGUUGUUUUACC	GGUAAGACAACACUUGCUAAAAG	Tradução
sly-miR6024-3p	Solyc05g006620.2.1	2.5	24.784	1	22	869	890	UUUUAGCAAGAGUUGUUUUACC	GGUAAAACAACUCUUCUUAAGG	Clivagem
sly-miR6024-3p	Solyc11g043070.1.1	2.5	18.341	1	22	355	376	UUUUAGCAAGAGUUGUUUUACC	GGUAAGAUAAACACUUGCUAAAAG	Tradução
sly-miR6024-3p	Solyc11g071430.1.1	2.5	23.059	1	22	544	565	UUUUAGCAAGAGUUGUUUUACC	GGUAAGACAACACUUGCUAAGG	Tradução
sly-miR6024-3p	Solyc09g092290.1.1	3.0	22.48	1	22	574	595	UUUUAGCAAGAGUUGUUUUACC	GGAAAAACAACUCUUGCCAAGA	Clivagem
sly-miR6024-3p	Solyc02g084890.1.1	3.0	21.446	1	22	574	595	UUUUAGCAAGAGUUGUUUUACC	GGUAAAACCACUCUUGCUCAGA	Clivagem
sly-miR6024-3p	Solyc09g018220.1.1	3.0	18.841	1	22	568	589	UUUUAGCAAGAGUUGUUUUACC	GGGAAAAACAACUCUUGCCAAGA	Clivagem
sly-miR6024-3p	Solyc04g011960.1.1	2.5	14.843	1	22	538	559	UUUUAGCAAGAGUUGUUUUACC	GGCAAAACAACACUUGCUAGAA	Tradução
sly-miR6024-3p	Solyc01g087200.2.1	2.5	22.054	1	22	532	553	UUUUAGCAAGAGUUGUUUUACC	GGCAAAACGACUCUCGCUAAAA	Clivagem
sly-miR6024-3p	Solyc09g007710.2.1	3.0	21.575	1	22	655	676	UUUUAGCAAGAGUUGUUUUACC	GGUAAAACAACUGUUGCCAAAG	Tradução
sly-miR6024-3p	Solyc08g005510.1.1	2.5	20.93	1	22	724	745	UUUUAGCAAGAGUUGUUUUACC	GGUAAAACAACGCUAGCUAAAAG	Tradução
sly-miR6024-3p	Solyc05g005330.2.1	3.0	20.414	1	22	1753	1774	UUUUAGCAAGAGUUGUUUUACC	GGUAAGACAACUCUCGCUAACA	Clivagem
sly-miR6024-3p	Solyc05g009410.1.1	3.0	14.207	1	21	829	849	UUUUAGCAAGAGUUGUUUUAC	GUGAAACAAUUUUUGCUGGAG	Clivagem
sly-miR6024-3p	Solyc07g063240.2.1	2.5	17.348	1	21	1738	1758	UUUUAGCAAGAGUUGUUUUAC	GGAAAAUGACUUUUGCUAAAA	Clivagem

sly-miR6024-3p	Solyc03g046470.2.1	2.5	18.742	1	20	2186	2205	UUUUAGCAAGAGUUGUUUUUA	AAGAACAAACUCUUGCUAAAC	Clivagem
sly-miR6024-3p	Solyc02g079950.2.1	2.5	20.525	1	22	365	386	UUUUAGCAAGAGUUGUUUUUACC	GCUAAAGCAGCUUUUGCUGAAG	Clivagem
sly-miR6024-3p	Solyc05g009750.1.1	3.0	16.469	1	22	181	202	UUUUAGCAAGAGUUGUUUUUACC	GGGAAAACAGCUCUGGCUAGAA	Clivagem
sly-miR6024-3p	Solyc05g009760.1.1	3.0	20.289	1	22	217	238	UUUUAGCAAGAGUUGUUUUUACC	GGGAAAACAGCUCUGGCUAGAA	Clivagem
sly-miR6024-3p	Solyc05g009740.1.1	3.0	20.41	1	22	148	169	UUUUAGCAAGAGUUGUUUUUACC	GGCAAAACAACUUUGGCUAGAA	Clivagem
sly-miR6024-3p	Solyc07g009180.1.1	3.0	19.5	1	22	553	574	UUUUAGCAAGAGUUGUUUUUACC	GGUAAGACUACUUUAGCUAAAA	Clivagem
sly-miR6024-3p	Solyc08g007630.1.1	3.0	24.495	1	22	637	658	UUUUAGCAAGAGUUGUUUUUACC	GGCAAGACAACACUUGCUAAAG	Tradução
sly-miR6024-3p	Solyc11g069620.1.1	3.0	20.482	1	22	637	658	UUUUAGCAAGAGUUGUUUUUACC	GGUAAGACAACACUAGCUAAAG	Tradução
sly-miR6024-3p	Solyc09g065100.1.1	3.0	16.98	1	21	443	463	UUUUAGCAAGAGUUGUUUUUAC	GUAGAGCUAUUCUUGCUAAGA	Clivagem
sly-miR6024-3p	Solyc01g006000.2.1	3.0	19.133	1	20	829	848	UUUUAGCAAGAGUUGUUUUUA	CAAAACAGCUUUUGUUAGAA	Clivagem
sly-miR6024-3p	Solyc05g012190.2.1	2.5	23.196	1	20	1118	1137	UUUUAGCAAGAGUUGUUUUUA	CAAAACAACCCUUGCUAAAG	Tradução
sly-miR6024-3p	Solyc04g012010.2.1	3.0	17.317	1	22	558	579	UUUUAGCAAGAGUUGUUUUUACC	GGCAAAACAACGCUCGCUAAAA	Tradução
sly-miR6024-3p	Solyc07g065080.2.1	2.5	17.179	1	20	1028	1047	UUUUAGCAAGAGUUGUUUUUA	CAGAAAAACUCUUGCUAAAA	Clivagem
sly-miR6024-3p	Solyc01g067490.2.1	3.0	20.47	1	20	483	502	UUUUAGCAAGAGUUGUUUUUA	UAGAGCAGCUCUUGUUUGAGA	Clivagem
sly-miR6024-3p	Solyc03g025540.2.1	3.0	21.583	1	20	2102	2121	UUUUAGCAAGAGUUGUUUUUA	UAAAACAGUUCUUGUUGGAG	Clivagem
sly-miR6024-3p	Solyc07g032510.2.1	2.5	16.504	1	20	1971	1990	UUUUAGCAAGAGUUGUUUUUA	UGAAACGACACUUGCUGAAA	Tradução
sly-miR6024-3p	Solyc02g068800.1.1	3.0	17.152	1	22	699	720	UUUUAGCAAGAGUUGUUUUUACC	GAUACAACGGCUCUUGUUAAAG	Clivagem
sly-miR6024-3p	Solyc04g009420.2.1	3.0	19.114	1	22	523	544	UUUUAGCAAGAGUUGUUUUUACC	GAUAAGCUAAUUCUUGCUGAAA	Clivagem
sly-miR6024-3p	Solyc04g025260.2.1	3.0	11.496	1	20	2677	2696	UUUUAGCAAGAGUUGUUUUUA	CAAAGCAACCUUGCUAAAA	Tradução
sly-miR6024-3p	Solyc02g079030.2.1	3.0	20.024	1	20	816	835	UUUUAGCAAGAGUUGUUUUUA	UAAUGCAACUCUUGCUAUAA	Clivagem
sly-miR6024-3p	Solyc09g060090.2.1	3.0	18.903	1	20	804	823	UUUUAGCAAGAGUUGUUUUUA	UGAAAGGACUUUUGCUGAAA	Clivagem
sly-miR6024-3p	Solyc03g115250.2.1	3.0	13.37	1	20	1676	1695	UUUUAGCAAGAGUUGUUUUUA	UAAAGCAACUUAUGCUGAAG	Tradução
sly-miR6024-5p	Solyc08g074500.2.1	3.0	14.312	1	22	1881	1902	AGAAACAACACUUGCUAAAGGA	UCCAUUAGCACGUGGUGUUUCU	Clivagem
sly-miR6024-5p	Solyc03g033410.2.1	3.0	21.752	1	21	221	241	AGAAACAACACUUGCUAAAGG	CCUUUUGCAGGUGGUGUUUUU	Clivagem
sly-miR6024-5p	Solyc10g006730.1.1	3.0	17.032	1	20	995	1014	AGAAACAACACUUGCUAAAG	CUUUGGCAAGUGCUAUUUCU	Clivagem
sly-miR6024-5p	Solyc07g062540.2.1	3.0	18.317	1	19	555	574	AGAAACAA-CACUUGCUAAA	CUUAGCAAGUGGUUGUUUCU	Tradução
sly-miR6027-3p	Solyc04g008190.1.1	2.5	19.836	1	22	106	127	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUGGCCGAAGGGUUUG	Clivagem
sly-miR6027-3p	Solyc11g069020.1.1	2.0	10.356	1	22	1309	1330	UGAAUCCUUCGGCUAUCCAUA	UUAUGGAUUGCUGAAGGAUUUA	Clivagem
sly-miR6027-3p	Solyc04g008140.1.1	2.5	20.025	1	22	2221	2242	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUGGCCGAAGGGUUUG	Clivagem
sly-miR6027-3p	Solyc09g098130.1.1	2.0	16.606	1	22	2416	2437	UGAAUCCUUCGGCUAUCCAUA	UUAUGGAUUGCUGAAGGAUUCG	Clivagem
sly-miR6027-3p	Solyc04g008120.1.1	2.5	20.528	1	22	2383	2404	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUGGCCGAAGGGUUUG	Clivagem
sly-miR6027-3p	Solyc02g027080.1.1	3.0	14.385	1	22	1285	1306	UGAAUCCUUCGGCUAUCCAUA	UUAUGGAUGGCUGAGGGGUUCC	Clivagem
sly-miR6027-3p	Solyc04g009090.1.1	3.0	17.386	1	22	187	208	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUGGCCGAGGGUUUCA	Clivagem
sly-miR6027-3p	Solyc04g026110.2.1	3.0	14.201	1	22	1193	1214	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUGGCCGAGGGUUUCA	Clivagem
sly-miR6027-3p	Solyc04g007070.2.1	3.0	20.864	1	22	1332	1353	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUAGCCGAGGGGUUGA	Clivagem

sly-miR6027-3p	Solyc05g013280.2.1	3.0	13.656	1	22	4099	4120	UGAAUCCUUCGGCUAUCCAUA	UUGUGGGUAGCUGAAGGGUUUG	Clivagem
sly-miR6027-3p	Solyc10g047320.1.1	2.5	19.101	1	22	1285	1306	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUUCGGAAGGAUUA	Tradução
sly-miR6027-3p	Solyc05g012890.1.1	3.0	23.127	1	22	2905	2926	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUAGCGGAAGGCUUA	Tradução
sly-miR6027-3p	Solyc05g012910.2.1	3.0	17.181	1	22	3127	3148	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUAGCGGAAGGCUUA	Tradução
sly-miR6027-3p	Solyc01g088060.2.1	2.5	15.717	1	21	566	586	UGAAUCCUUCGGCUAUCCAUA	UAUGGAUGGCAGAAGGAUUUG	Tradução
sly-miR6027-3p	Solyc03g005660.2.1	3.0	22.349	1	22	1353	1374	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUCGCGGAAGGGUUA	Tradução
sly-miR6027-3p	Solyc01g090430.2.1	3.0	24.454	1	22	1357	1378	UGAAUCCUUCGGCUAUCCAUA	UUAUGGAUCGCGGAAGGGUUA	Tradução
sly-miR6027-3p	Solyc07g053020.1.1	2.5	14.922	1	22	1300	1321	UGAAUCCUUCGGCUAUCCAUA	UGGUGGAUAGGAGAAGGAUUA	Tradução
sly-miR6027-3p	Solyc02g069940.2.1	3.0	14.944	1	20	1088	1107	UGAAUCCUUCGGCUAUCCAUA	AUGGAAAGCUGGAGGAUUCU	Clivagem
sly-miR6027-3p	Solyc01g108890.2.1	3.0	17.735	1	20	1412	1432	UGAAUCCUUCGGCUAUCCAUA	AUGGAAUGGCCGGAGGAUUA	Clivagem
sly-miR6027-3p	Solyc06g062610.1.1	3.0	13.601	1	20	1853	1872	UGAAUCCUUCGGCUAUCCAUA	AUGGAAGGUGGAAGGAUUA	Tradução
sly-miR6027-5p	Solyc10g049340.1.1	2.5	13.234	1	22	297	318	AUGGGUAGCACAAGGAUUAAUG	UAUUGAUUCUAGUGCUACUCAU	Clivagem
sly-miR6027-5p	Solyc03g007010.2.1	3.0	24.136	1	22	623	644	AUGGGUAGCACAAGGAUUAAUG	CAUUAGCCUUUGUGUUGCCCAU	Clivagem
sly-miR6027-5p	Solyc12g009550.1.1	3.0	17.187	1	22	75	96	AUGGGUAGCACAAGGAUUAAUG	CGUUGAUCUUUCUGCUACUUAU	Tradução
sly-miR6027-5p	Solyc05g055140.1.1	3.0	17.818	1	22	98	119	AUGGGUAGCACAAGGAUUAAUG	UAUUAAUCCUUGUUUACUUAU	Tradução
sly-miR6027-5p	Solyc07g047990.1.1	3.0	16.738	1	20	437	456	AUGGGUAGCACAAGGAUUAA	AUGAUCCUUGUGUUUUAUCAU	Clivagem
sly-miR6027-5p	Solyc03g005960.2.1	3.0	9.406	1	20	3115	3134	AUGGGUAGCACAAGGAUUAA	UUGAUCCUUGUGUUUAUCUAC	Clivagem
sly-miR6027-5p	Solyc02g068680.1.1	3.0	18.55	1	21	1190	1210	AUGGGUAGCACAAGGAUUAAU	AUUUAACUUUGUGCUACUCAU	Clivagem
sly-miR6027-5p	Solyc01g100790.1.1	3.0	17.051	1	22	1331	1352	AUGGGUAGCACAAGGAUUAAUG	CUUUAAUUCUUGGGCUAGCCAU	Tradução
sly-miR6027-5p	Solyc08g006010.2.1	3.0	11.593	1	22	165	186	AUGGGUAGCACAAGGAUUAAUG	CCUUAAUCCAUGCCCUACCCAU	Tradução
sly-miR7122-3p	Solyc03g093150.1.1	3.0	20.762	1	20	1194	1213	ACAGCGUUUUUCUGUAUAAC	CUUAUACAGGAAGAUUGU	Clivagem
sly-miR7122-3p	Solyc11g071920.1.1	3.0	15.439	1	20	1438	1457	ACAGCGUUUUUCUGUAUAAC	GUUGUACUGGAAAUGCUGU	Clivagem
sly-miR7122-3p	Solyc11g006350.1.1	3.0	14.531	1	20	976	995	ACAGCGUUUUUCUGUAUAAC	GCUAUGCAGAAACAUGCUGU	Clivagem
sly-miR7122-5p	Solyc12g009760.1.1	3.0	17.19	1	21	339	359	UAUACAGAGAAACCGCUGUCG	UGACAAUGGUUUCAUUGUAUA	Clivagem
sly-miR7696c-3p	Solyc03g044200.2.1	3.0	18.739	1	21	1124	1144	UUUUGAAUUUAUAGAACUUGA	UCAAGUUCUAAUAAAUAAAC	Clivagem
sly-miR7696c-3p	Solyc12g042760.1.1	3.0	23.26	1	21	1099	1119	UUUUGAAUUUAUAGAACUUGA	UCGAGUUUUGGUAAUUUAAGA	Clivagem
sly-miR7696c-3p	Solyc07g014650.2.1	2.5	15.516	1	20	242	261	UUUUGAAUUUAUAGAACUUG	GAAGUUCUAGUAAUUCAGGA	Clivagem
sly-miR7696c-3p	Solyc06g068130.2.1	3.0	21.2	1	21	474	494	UUUUGAAUUUAUAGAACUUGA	UCAGGUUCGGAUAAUCAAU	Clivagem
sly-miR7696c-3p	Solyc02g081020.1.1	3.0	9.28	1	21	25	45	UUUUGAAUUUAUAGAACUUGA	UCUAGUUUUAAUAAUCCAAAA	Clivagem
sly-miR7696c-3p	Solyc06g063420.2.1	3.0	23.94	1	21	1575	1595	UUUUGAAUUUAUAGAACUUGA	UCAAGUUCUGAUACAUAAAA	Clivagem
sly-miR7696c-3p	Solyc01g011040.2.1	3.0	12.52	1	20	685	704	UUUUGAAUUUAUAGAACUUG	UAAGUUUUAAUAAUUCAAA	Clivagem
sly-miR7696c-3p	Solyc05g007610.2.1	3.0	15.743	1	21	1173	1193	UUUUGAAUUUAUAGAACUUGA	UCAACUUCAAAUAUUCAAAC	Clivagem
sly-miR7696c-3p	Solyc05g008690.1.1	3.0	15.025	1	20	1484	1503	UUUUGAAUUUAUAGAACUUG	CAAGUUUUAAAAGUUCAAAC	Tradução
sly-miR7696c-3p	Solyc03g095770.2.1	3.0	6.442	1	20	499	518	UUUUGAAUUUAUAGAACUUG	CAAGUUCAAAUAUCCAAGA	Clivagem
sly-miR7696c-3p	Solyc01g111180.2.1	2.5	11.154	1	20	17271	17290	UUUUGAAUUUAUAGAACUUG	CAAGUACUGAUUAUUCAAAA	Tradução

sly-miR7696c-3p	Solyc01g110700.2.1	2.5	11.154	1	20	47905	47924	UUUUGAAUUAUUAGAACUUG	CAAGUACUGAUUAUUCAAAA	Tradução
sly-miR7696c-3p	Solyc01g104110.2.1	3.0	14.748	1	20	311	330	UUUUGAAUUAUUAGAACUUG	GAAGUUGUAAAAAUUCAAAA	Tradução
sly-miR7696c-3p	Solyc11g020470.1.1	3.0	15.368	1	20	86	105	UUUUGAAUUAUUAGAACUUG	CAAGGCCUAGUAGUUCAAAA	Clivagem
sly-miR7696c-3p	Solyc02g065440.1.1	3.0	14.937	1	20	56	75	UUUUGAAUUAUUAGAACUUG	UAAGUUCUUAUGUUUCAAAA	Clivagem
sly-miR7696c-3p	Solyc08g068420.2.1	3.0	9.113	1	20	311	330	UUUUGAAUUAUUAGAACUUG	CAUGUCCUAGUAAUUCGAAA	Clivagem
sly-miR7696c-3p	Solyc06g009670.2.1	3.0	16.079	1	20	1697	1716	UUUUGAAUUAUUAGAACUUG	CAAGUUCAGAAAAUUCAGA	Tradução
sly-miR7696c-3p	Solyc01g059870.2.1	3.0	20.2	1	20	2770	2789	UUUUGAAUUAUUAGAACUUG	CAAGCUCUAAGAGUUCAAAG	Tradução
sly-miR7696c-3p	Solyc02g087360.2.1	3.0	21.23	1	20	131	150	UUUUGAAUUAUUAGAACUUG	CUAGUGCUAGUAAUUCAAAG	Clivagem
sly-miR7696c-3p	Solyc03g116650.1.1	3.0	16.01	1	20	161	179	UUUUGAAUUAUUAGAACUUG	CAAGU-CUAGUGAUUCAAAA	Clivagem
sly-miR7696c-3p	Solyc02g091040.2.1	3.0	14.594	1	20	69	88	UUUUGAAUUAUUAGAACUUG	CAAAAUGUAAUAAUUCAAAA	Clivagem
sly-miR7805-5p	Solyc03g058160.2.1	2.5	9.563	1	21	712	732	AAAUUUGGUGUAGUGAAUACU	AGUCUUCAUUACACCGGAUUU	Clivagem
sly-miR7805-5p	Solyc01g087230.2.1	3.0	13.785	1	20	1326	1345	AAAUUUGGUGUAGUGAAUAC	GUUUUUGUUACACCAAACU	Clivagem
sly-miR7805-5p	Solyc01g079950.2.1	3.0	7.317	1	21	720	740	AAAUUUGGUGUAGUGAAUACU	AAUUAUUCUACACCAAUUUA	Clivagem
sly-miR7805-5p	Solyc01g079160.2.1	3.0	21.285	1	21	1015	1035	AAAUUUGGUGUAGUGAAUACU	GGAGUUCACUACACUGAUUUU	Clivagem
sly-miR7805-5p	Solyc07g063990.1.1	2.5	14.862	1	21	957	977	AAAUUUGGUGUAGUGAAUACU	GGUACCCAUAACACCAAUUU	Clivagem
sly-miR7805-5p	Solyc07g014700.2.1	3.0	15.48	1	20	2387	2406	AAAUUUGGUGUAGUGAAUAC	AUGUUAACUACACCAGAUUU	Clivagem
sly-miR7805-5p	Solyc09g090670.2.1	2.5	10.652	1	20	709	728	AAAUUUGGUGUAGUGAAUAC	GUUUUCAUUACUCCAAUUU	Tradução
sly-miR7805-5p	Solyc03g097780.2.1	3.0	12.638	1	20	1625	1644	AAAUUUGGUGUAGUGAAUAC	GAAUUCAUUACACCAAACU	Clivagem
sly-miR7805-5p	Solyc10g050420.1.1	3.0	15.443	1	21	190	209	AAAUUUGGUGUAGUGAAUACU	AGUGUUC-CUACACCGAAUUU	Clivagem
sly-miR7805-5p	Solyc08g081880.1.1	3.0	20.457	1	20	311	330	AAAUUUGGUGUAGUGAAUAC	GUAUGCAUUACCCUAAUUU	Tradução
sly-miR7980b.2-5p	Solyc10g080610.1.1	2.0	21.746	1	22	438	459	GUCCAAACACUGAUUCCAUCUC	GAGAUGGAAUCAGUGUAUGGAU	Clivagem
sly-miR7980b.2-5p	Solyc06g066240.2.1	2.5	16.557	1	23	1708	1730	GUCCAAACACUGAUUCCAUCUCA	UGAGAUGGAAUCAUGUUUCGAC	Tradução
sly-miR7980b.2-5p	Solyc10g079330.1.1	2.5	12.697	1	21	982	1002	GUCCAAACACUGAUUCCAUCU	GGAUGGAAUUCGUGUUUGGAA	Tradução
sly-miR7980b.2-5p	Solyc01g111080.2.1	2.5	16.752	1	21	17785	17805	GUCCAAACACUGAUUCCAUCU	ACAUGAAAUCAGUGUUUGGAU	Clivagem
sly-miR7980b.2-5p	Solyc05g046120.2.1	2.5	21.109	1	20	1635	1654	GUCCAAACACUGAUUCCAUC	GAUGGAAUCGUUGUUUGGGU	Tradução
sly-miR7980b.2-5p	Solyc07g066160.1.1	3.0	18.354	1	20	297	316	GUCCAAACACUGAUUCCAUC	GAUGAAUCGUUGUUUGGGC	Tradução
sly-miR7980b.2-5p	Solyc03g044060.2.1	3.0	12.597	1	20	1466	1485	GUCCAAACACUGAUUCCAUC	GAUGGAGUCACUCUUUGGAU	Tradução
sly-miR7980b-3p	Solyc01g096060.2.1	2.5	14.465	1	24	2407	2431	GAGAUGGAAUCAGUGU-UUGGACAU	AUUUUCAAUACACUGAUUUCAUCUC	Clivagem
sly-miR7980b-3p	Solyc07g043590.2.1	2.5	15.407	1	21	813	833	GAGAUGGAAUCAGUGUUUGGA	UGCAGAUUCUGAUUCCAUCUC	Clivagem
sly-miR7980b-3p	Solyc01g096550.2.1	3.0	14.368	1	21	196	216	GAGAUGGAAUCAGUGUUUGGA	UCCGAACAUCCGUUCCAUUUC	Clivagem
sly-miR7980b-3p	Solyc11g072930.1.1	3.0	9.988	1	23	862	884	GAGAUGGAAUCAGUGUUUGGACA	UUUCAAGACACUGAGUCUAUCUC	Tradução
sly-miR7980b-3p	Solyc02g077720.2.1	3.0	9.285	1	20	425	444	GAGAUGGAAUCAGUGUUUGG	CUAAAACUGAUUUUAUUUC	Clivagem
sly-miR7980b-3p	Solyc09g091250.2.1	3.0	6.496	1	20	22	41	GAGAUGGAAUCAGUGUUUGG	CCAAACCCUUAUCCAUUUU	Tradução
sly-miR7980b-3p	Solyc07g049530.2.1	3.0	7.99	1	20	69	89	GAGAUGGA-AUCAGUGUUUGG	UCAACAUGAUUAUCCAUCUC	Tradução
sly-miR7981-3p	Solyc01g111080.2.1	2.0	10.993	1	24	10265	10288	AUAGGACUUUAGUUUAGUUUAAGGU	AUCUUAUUAAUCUAAGGUCCUUAU	Clivagem

sly-miR7981-3p	Solyc01g006760.2.1	2.5	10.072	1	24	698	721	AUAGGACUUUAGUUUAGUUUAGGU	GUCUUAUUUUUUUAGGUUCUGU	Clivagem
sly-miR7981-3p	Solyc09g098620.1.1	1.5	11.995	1	21	2020	2040	AUAGGACUUUAGUUUAGUUUAA	UUAAACUAAAUUUAGGUUCUUAU	Clivagem
sly-miR7981-3p	Solyc04g079750.2.1	3.0	12.147	1	22	800	821	AUAGGACUUUAGUUUAGUUUAAAG	UUUGAUUAGGUUAAAAGUCUUUAU	Clivagem
sly-miR7981-3p	Solyc05g012330.2.1	3.0	11.035	1	21	554	574	AUAGGACUUUAGUUUAGUUUAA	UUAAACAAAGCUGAAGUUCUGU	Clivagem
sly-miR7981-3p	Solyc06g062680.1.1	3.0	18.146	1	21	469	489	AUAGGACUUUAGUUUAGUUUAA	UUGACUGCAUUGAAGUCCUUAU	Clivagem
sly-miR7981-5p	Solyc11g050940.1.1	3.0	15.143	1	23	357	379	UUAAACUUAAACUAAGGUUCUAUUA	UAGGAGAGCUUUAGUUGAGUUGA	Clivagem
sly-miR7981-5p	Solyc03g122340.2.1	3.0	13.035	1	20	2961	2980	UUAAACUUAAACUAAGGUUCUA	AAGAACAUUUUUUUAGUUUA	Tradução
sly-miR7983.1-3p	Solyc09g011580.2.1	1.0	11.369	1	24	822	845	ACUAAUGCCGGUAAAGACUUUAAAC	GAUAAAGUUUUUUUUCGGCAUUAGU	Clivagem
sly-miR7983.1-5p	Solyc06g065340.1.1	1.5	15.677	1	24	428	451	UAAAGCUUUUAGCGAUUUUUGUUC	GAAAAAAUGUUGCUAAAAGUUUUUA	Clivagem
sly-miR7983.1-5p	Solyc05g056140.2.1	3.0	16.807	1	24	1124	1147	UAAAGCUUUUAGCGAUUUUUGUUC	GGACAAAUUUUGCUAAGGCUUGA	Clivagem
sly-miR7983.1-5p	Solyc12g010530.1.1	2.5	15.231	1	23	239	261	UAAAGCUUUUAGCGAUUUUUGUU	GGCAAGUUGCGCUAAAAGCUUUUA	Clivagem
sly-miR7983.1-5p	Solyc04g011980.1.1	2.5	14.648	1	23	638	660	UAAAGCUUUUAGCGAUUUUUGUU	GAAAUUGUUAUUGCUAGAAGCUUUUA	Clivagem
sly-miR7983.1-5p	Solyc03g058880.2.1	3.0	14.57	1	23	2131	2153	UAAAGCUUUUAGCGAUUUUUGUU	AUUGAAUUAUUGAUAGAAGUUUUUA	Clivagem
sly-miR7983.1-5p	Solyc04g011960.1.1	3.0	19.264	1	23	638	660	UAAAGCUUUUAGCGAUUUUUGUU	GAAAUUGUUAUUGUUAAGAAGCUUUUA	Clivagem
sly-miR7983.1-5p	Solyc04g012010.2.1	3.0	12.961	1	23	658	680	UAAAGCUUUUAGCGAUUUUUGUU	GAAAUUGUUAUUGUUAAGAAGCUUUUA	Clivagem
sly-miR7983.1-5p	Solyc11g045350.1.1	3.0	15.314	1	20	2739	2758	UAAAGCUUUUAGCGAUUUU	GGAUUAUUGCUAAAAGGUUUUA	Clivagem
sly-miR7983.1-5p	Solyc02g084750.2.1	3.0	14.965	1	20	2070	2089	UAAAGCUUUUAGCGAUUUU	AAGUAUUGUUAAUAGUUUUUA	Clivagem
sly-miR7983.2-3p	Solyc09g011580.2.1	1.0	11.369	1	24	822	845	ACUAAUGCCGGUAAAGACUUUAAAC	GAUAAAGUUUUUUUUCGGCAUUAGU	Clivagem
sly-miR7983.2-5p	Solyc11g066610.1.1	3.0	16.542	1	23	80	102	UAAAGCUUUUAGCGAAAAUUGAUU	AAUUGAUUUUCUCUAAUAGCUUUUA	Clivagem
sly-miR7983.2-5p	Solyc04g074190.2.1	3.0	18.585	1	23	591	613	UAAAGCUUUUAGCGAAAAUUGAUU	GGUUGAUUUUAGCUAGAGGCUUUUA	Clivagem
sly-miR7983.2-5p	Solyc06g065340.1.1	3.0	15.677	1	24	428	451	UAAAGCUUUUAGCGAAAAUUGAUUC	GAAAAAAUGUUGCUAAAAGUUUUUA	Clivagem
sly-miR7983.2-5p	Solyc07g053430.2.1	3.0	16.458	1	23	849	871	UAAAGCUUUUAGCGAAAAUUGAUU	AGGCAAUUUUGUUAAGAGCUCUA	Clivagem
sly-miR7983.2-5p	Solyc01g111540.2.1	3.0	12.626	1	24	1616	1639	UAAAGCUUUUAGCGAAAAUUGAUUC	GGAACAUAUUGAUAAAAGCUUUUG	Clivagem
sly-miR7983.2-5p	Solyc12g010530.1.1	2.5	15.231	1	20	242	261	UAAAGCUUUUAGCGAAAAUUG	AAGUUGCGCUAAAAGCUUUUA	Clivagem
sly-miR7983.2-5p	Solyc04g077780.2.1	3.0	15.359	1	20	465	484	UAAAGCUUUUAGCGAAAAUUG	CAGUUUGGAUAAAAGCUUUUG	Clivagem
sly-miR7983.3-3p	Solyc09g011580.2.1	3.0	11.369	1	24	822	845	ACUAAUUUCGGUAAAGACUUUAGC	GAUAAAGUUUUUUUUCGGCAUUAGU	Clivagem
sly-miR7983.3-3p	Solyc03g025550.2.1	2.5	14.721	1	22	247	268	ACUAAUUUCGGUAAAGACUUUA	UGGAGUCUUUUAUGGAAGUUAGU	Tradução
sly-miR7983.3-5p	Solyc01g087190.2.1	2.5	12.858	1	23	894	916	UAAAGUCUUUAGCGACAUUGGUU	AACUAAUGUCAGUAAAGACUUUA	Clivagem
sly-miR7983.3-5p	Solyc06g060690.2.1	2.0	15.598	1	23	1537	1559	UAAAGUCUUUAGCGACAUUGGUU	AUCUACUGUCGCUAAAAGUUUUUA	Clivagem
sly-miR7983.3-5p	Solyc08g079440.1.1	3.0	15.2	1	23	957	979	UAAAGUCUUUAGCGACAUUGGUU	AGGUAGUGUUGCUAGGGAUUUUUA	Clivagem
sly-miR7983.3-5p	Solyc00g033990.1.1	3.0	17.077	1	21	601	621	UAAAGUCUUUAGCGACAUUGG	UCGAUGUUGCUGAAGGUUUUG	Clivagem
sly-miR7983.3-5p	Solyc05g007950.2.1	2.5	11.552	1	21	94	114	UAAAGUCUUUAGCGACAUUGG	UCAUUGCUGCUAAAAGUUUUUG	Clivagem
sly-miR7983.3-5p	Solyc10g018220.1.1	3.0	15.7	1	21	901	921	UAAAGUCUUUAGCGACAUUGG	CCAAUGUCUUUGAAGAUUUUG	Clivagem
sly-miR7983.3-5p	Solyc00g202560.1.1	2.5	14.823	1	22	396	417	UAAAGUCUUUAGCGACAUUGGU	AGCAUUGUCGUUACAGGUUUUA	Tradução
sly-miR7983.3-5p	Solyc09g056290.1.1	3.0	14.184	1	20	227	246	UAAAGUCUUUAGCGACAUUG	UAGUGUCGUUGGAGACUUUG	Clivagem

sly-miR7983.4-3p	Solyc09g011580.2.1	1.5	11.369	1	24	822	845	ACUAAUGCUGGUAAAGACUUUAGC	GAUAAAGUUUUUAUCGGCAUUAGU	Clivagem
sly-miR7983.4-3p	Solyc05g009870.2.1	3.0	16.076	1	23	253	275	ACUAAUGCUGGUAAAGACUUUAG	UUGAAGUCUUUACAAGCAGUGGU	Tradução
sly-miR7983.4-3p	Solyc07g065730.1.1	3.0	16.226	1	21	1126	1146	ACUAAUGCUGGUAAAGACUUU	GAAUUCUUUACUAGCAUGAGU	Clivagem
sly-miR7983.4-3p	Solyc07g065880.2.1	3.0	11.949	1	20	2407	2426	ACUAAUGCUGGUAAAGACUU	AAAUUUUUGUCAGCAUUAGG	Clivagem
sly-miR7983.4-5p	Solyc01g087190.2.1	2.5	12.858	1	23	894	916	UAAAGUCUUUAGCGACAUUGGUU	AACUAAUGUCAGUAAAGACUUUA	Clivagem
sly-miR7983.4-5p	Solyc06g060690.2.1	2.0	15.598	1	23	1537	1559	UAAAGUCUUUAGCGACAUUGGUU	AUCUACUGUCGCUAAAGAUUUUUA	Clivagem
sly-miR7983.4-5p	Solyc08g079440.1.1	3.0	15.2	1	23	957	979	UAAAGUCUUUAGCGACAUUGGUU	AGGUAGUGUUGCUAGGGAUUUUUA	Clivagem
sly-miR7983.4-5p	Solyc00g033990.1.1	3.0	17.077	1	21	601	621	UAAAGUCUUUAGCGACAUUGG	UCGAUGUUGCUGAAGGUUUUG	Clivagem
sly-miR7983.4-5p	Solyc05g007950.2.1	2.5	11.552	1	21	94	114	UAAAGUCUUUAGCGACAUUGG	UCAAGUCUGCUAAAGAUUUUUG	Clivagem
sly-miR7983.4-5p	Solyc10g018220.1.1	3.0	15.7	1	21	901	921	UAAAGUCUUUAGCGACAUUGG	CCAAUGUCUUUGAAGAUUUUUG	Clivagem
sly-miR7983.4-5p	Solyc00g202560.1.1	2.5	14.823	1	22	396	417	UAAAGUCUUUAGCGACAUUGGU	AGCAAUGUCGUUACAGGUUUUA	Tradução
sly-miR7983.4-5p	Solyc09g056290.1.1	3.0	14.184	1	20	227	246	UAAAGUCUUUAGCGACAUUG	UAGUGUCGUUGGAGACUUUG	Clivagem
sly-miR7983.5-3p	Solyc04g078310.2.1	3.0	14.094	1	23	826	848	ACUAAUGACGGUAAAGACUUUAGC	GUGAAAUUCUUACCUUCGUUGGU	Tradução
sly-miR7983.5-3p	Solyc02g080340.2.1	3.0	24.181	1	20	563	582	ACUAAUGACGGUAAAGACUUU	AGAGUGUUACUGUUGUUAGU	Clivagem
sly-miR7983.5-5p	Solyc01g087190.2.1	2.5	12.858	1	23	894	916	UAAAGUCUUUAGCGACAUUGGUU	AACUAAUGUCAGUAAAGACUUUA	Clivagem
sly-miR7983.5-5p	Solyc06g060690.2.1	2.0	15.598	1	23	1537	1559	UAAAGUCUUUAGCGACAUUGGUU	AUCUACUGUCGCUAAAGAUUUUUA	Clivagem
sly-miR7983.5-5p	Solyc08g079440.1.1	3.0	15.2	1	23	957	979	UAAAGUCUUUAGCGACAUUGGUU	AGGUAGUGUUGCUAGGGAUUUUUA	Clivagem
sly-miR7983.5-5p	Solyc00g033990.1.1	3.0	17.077	1	21	601	621	UAAAGUCUUUAGCGACAUUGG	UCGAUGUUGCUGAAGGUUUUG	Clivagem
sly-miR7983.5-5p	Solyc05g007950.2.1	2.5	11.552	1	21	94	114	UAAAGUCUUUAGCGACAUUGG	UCAAGUCUGCUAAAGAUUUUUG	Clivagem
sly-miR7983.5-5p	Solyc10g018220.1.1	3.0	15.7	1	21	901	921	UAAAGUCUUUAGCGACAUUGG	CCAAUGUCUUUGAAGAUUUUUG	Clivagem
sly-miR7983.5-5p	Solyc00g202560.1.1	2.5	14.823	1	22	396	417	UAAAGUCUUUAGCGACAUUGGU	AGCAAUGUCGUUACAGGUUUUA	Tradução
sly-miR7983.5-5p	Solyc09g056290.1.1	3.0	14.184	1	20	227	246	UAAAGUCUUUAGCGACAUUG	UAGUGUCGUUGGAGACUUUG	Clivagem
sly-miR7983.6-3p	Solyc09g011580.2.1	1.0	11.369	1	24	822	845	ACUAAUGCCGGUAAAGACUUUAAC	GAUAAAGUUUUUAUCGGCAUUAGU	Clivagem
sly-miR7983.6-5p	Solyc10g052470.1.1	2.0	21.782	1	24	110	133	UAACGGCUUUAGCAACAUUGGAUC	GGUCCAAUGUUGCUAAAGCAGUUG	Clivagem
sly-miR7983.6-5p	Solyc01g109670.2.1	3.0	22.921	1	24	110	133	UAACGGCUUUAGCAACAUUGGAUC	GGUCUAAACGUUGCUAGAGCUGUUG	Clivagem
sly-miR7983.6-5p	Solyc06g062990.1.1	3.0	19.184	1	23	771	793	UAACGGCUUUAGCAACAUUGGAU	AUUCAAUUUUGCUGAAGCCAUUA	Clivagem
sly-miR7983.6-5p	Solyc04g082560.2.1	3.0	20.665	1	24	348	371	UAACGGCUUUAGCAACAUUGGAUC	GAAUCAGUGGUGUUGAAGCCGUUG	Clivagem
sly-miR7983.6-5p	Solyc04g005200.2.1	2.5	24.052	1	22	229	250	UAACGGCUUUAGCAACAUUGGA	UACAAGGUUGCUGGAGCUGUUA	Clivagem
sly-miR7983.6-5p	Solyc01g066980.2.1	3.0	16.342	1	20	531	550	UAACGGCUUUAGCAACAUUG	CAUGUUGCUAAGGUUGUUA	Clivagem
sly-miR7983.6-5p	Solyc12g044880.1.1	2.5	17.932	1	20	17	36	UAACGGCUUUAGCAACAUUG	CAUGUUGCUGAUGUUGUUA	Clivagem
sly-miR7983.6-5p	Solyc03g119070.2.1	3.0	24.102	1	20	339	358	UAACGGCUUUAGCAACAUUG	CAUGUUGCUGGCGCUGUUG	Clivagem
sly-miR7984c-3p	Solyc06g075970.2.1	3.0	19.448	1	22	1859	1880	UACGAUACCAAACUUUAUGGAG	UUUCAUAGCGUUUGUUUUCGUA	Clivagem
sly-miR7984c-3p	Solyc01g081290.2.1	3.0	17.343	1	20	1511	1530	UACGAUACCAAACUUUAUGG	CCAUAAAGCUUGGCAUUGUA	Clivagem
sly-miR7984c-3p	Solyc08g076000.2.1	3.0	11.303	1	23	3155	3177	UACGAUACCAAACUUUAUGGAGG	UCCCCCUCAAGUUUCGUAUCGUA	Tradução
sly-miR7984c-5p	Solyc06g053200.2.1	2.5	14.062	1	23	1312	1334	ACGAUACCAAACUUUAUGGAGGA	UAUUCUAUAGGUUUGGUAACGU	Clivagem

sly-miR7984c-5p	Solyc02g086500.2.1	3.0	16.013	1	22	550	571	ACGAUACCAAACUUUAUGGAGG	UUUAUAAGAAGUUUGGUAUCGU	Clivagem
sly-miR7984d-3p	Solyc03g114380.2.1	3.0	16.166	1	24	10	33	CAAUUUCGGUCAAAAGUUCGGAU	AUCUUUGAAUUUUUACUGAAAUUG	Tradução
sly-miR7984d-3p	Solyc03g119780.2.1	3.0	18.105	1	22	2554	2575	CAAUUUCGGUCAAAAGUUCGGAU	AUCCGGUCUUUGACCCAAAUUG	Clivagem
sly-miR7984d-3p	Solyc05g055690.1.1	2.5	13.443	1	20	1620	1639	CAAUUUCGGUCAAAAGUUCGG	UCGAACAUUGAUCGGAAUUG	Clivagem
sly-miR7984d-3p	Solyc08g006860.2.1	3.0	18.673	1	22	430	451	CAAUUUCGGUCAAAAGUUCGGAU	AAUCAAAACUUUGACAGAAGUUG	Clivagem
sly-miR7985-3p	Solyc01g110700.2.1	0.5	21.102	1	24	43550	43573	CGGGCUUGCCUAGUGCGGGUUACC	GAUAACCCGCACUAGGCAGGCCCG	Clivagem
sly-miR7985-3p	Solyc01g111180.2.1	0.5	21.102	1	24	12916	12939	CGGGCUUGCCUAGUGCGGGUUACC	GAUAACCCGCACUAGGCAGGCCCG	Clivagem
sly-miR7987-3p	Solyc06g072340.2.1	2.0	19.489	1	20	1924	1943	ACACUAGUUGAUCUUUAUUGA	UCAGUAAGGUCAAUUGGUGU	Clivagem
sly-miR7987-3p	Solyc02g081730.2.1	2.5	13.324	1	21	94	114	ACACUAGUUGAUCUUUAUUGAU	AUCAAAAGAGAUUAAUUAGUGU	Clivagem
sly-miR7987-3p	Solyc12g056170.1.1	3.0	13.833	1	21	1722	1742	ACACUAGUUGAUCUUUAUUGAU	AUCAAAAGAUCAACUCCUGU	Clivagem
sly-miR7987-3p	Solyc05g050300.1.1	3.0	13.285	1	21	260	280	ACACUAGUUGAUCUUUAUUGAU	AUCAAAAUGAACAACUAGUGU	Tradução
sly-miR7990a.1-5p	Solyc01g059990.2.1	2.5	13.833	1	24	1008	1031	UUCAAAUGAUCGUAACUUUGGCCU	AGAUAAGGUUCCGAUUGUUUGAA	Clivagem
sly-miR7990a.1-5p	Solyc02g030470.1.1	3.0	18.805	1	24	330	353	UUCAAAUGAUCGUAACUUUGGCCU	AGAUAAGGUUCUGAUUGUUUGAA	Clivagem
sly-miR7990a.1-5p	Solyc05g016090.1.1	3.0	19.182	1	24	861	884	UUCAAAUGAUCGUAACUUUGGCCU	AGAUAAGGUUCUGAUUGUUUGAA	Clivagem
sly-miR7990a.1-5p	Solyc08g067130.1.1	3.0	16.672	1	24	765	788	UUCAAAUGAUCGUAACUUUGGCCU	AGAUAAGGUUCUGAUUGUUUGAA	Clivagem
sly-miR7990a.1-5p	Solyc05g026520.1.1	3.0	18.805	1	24	1509	1532	UUCAAAUGAUCGUAACUUUGGCCU	AGAUAAGGUUCUGAUUGUUUGAA	Clivagem
sly-miR7990a.1-5p	Solyc06g009120.2.1	3.0	12.993	1	24	448	471	UUCAAAUGAUCGUAACUUUGGCCU	AUGUCAAGUUAAAGUUUAUUUGAG	Tradução
sly-miR7990a.1-5p	Solyc03g083250.2.1	3.0	20.429	1	23	677	699	UUCAAAUGAUCGUAACUUUGGCC	GACCGAUGUUUGAUAAUUUGAA	Clivagem
sly-miR7990a.1-5p	Solyc03g006330.2.1	3.0	18.958	1	22	2070	2091	UUCAAAUGAUCGUAACUUUGGC	GACGAAGGGAUGAUCAUUUGAA	Clivagem
sly-miR7990a.1-5p	Solyc12g036380.1.1	3.0	8.865	1	20	216	234	UUCAAAUGAUCGUAACUUUG	AAAAGUUACGA-CAUUUGAA	Tradução
sly-miR7990a.2-3p	Solyc01g059990.2.1	2.5	13.833	1	24	1008	1031	UUCAAAUGAUCGUAACUUUGGCCU	AGAUAAGGUUCCGAUUGUUUGAA	Clivagem
sly-miR7990a.2-3p	Solyc02g030470.1.1	3.0	18.805	1	24	330	353	UUCAAAUGAUCGUAACUUUGGCCU	AGAUAAGGUUCUGAUUGUUUGAA	Clivagem
sly-miR7990a.2-3p	Solyc05g016090.1.1	3.0	19.182	1	24	861	884	UUCAAAUGAUCGUAACUUUGGCCU	AGAUAAGGUUCUGAUUGUUUGAA	Clivagem
sly-miR7990a.2-3p	Solyc08g067130.1.1	3.0	16.672	1	24	765	788	UUCAAAUGAUCGUAACUUUGGCCU	AGAUAAGGUUCUGAUUGUUUGAA	Clivagem
sly-miR7990a.2-3p	Solyc05g026520.1.1	3.0	18.805	1	24	1509	1532	UUCAAAUGAUCGUAACUUUGGCCU	AGAUAAGGUUCUGAUUGUUUGAA	Clivagem
sly-miR7990a.2-3p	Solyc06g009120.2.1	3.0	12.993	1	24	448	471	UUCAAAUGAUCGUAACUUUGGCCU	AUGUCAAGUUAAAGUUUAUUUGAG	Tradução
sly-miR7990a.2-3p	Solyc03g083250.2.1	3.0	20.429	1	23	677	699	UUCAAAUGAUCGUAACUUUGGCC	GACCGAUGUUUGAUAAUUUGAA	Clivagem
sly-miR7990a.2-3p	Solyc03g006330.2.1	3.0	18.958	1	22	2070	2091	UUCAAAUGAUCGUAACUUUGGC	GACGAAGGGAUGAUCAUUUGAA	Clivagem
sly-miR7990a.2-3p	Solyc12g036380.1.1	3.0	8.865	1	20	216	234	UUCAAAUGAUCGUAACUUUG	AAAAGUUACGA-CAUUUGAA	Tradução
sly-miR7990a.3-3p	Solyc04g056550.1.1	2.5	11.88	1	21	468	488	UUCAAAUGAUCGUAACUUUUG	CAAAAUUUGCGAUCGUUUGAG	Clivagem
sly-miR7990a.3-3p	Solyc11g011090.1.1	3.0	17.14	1	20	6776	6795	UUCAAAUGAUCGUAACUUUU	AAGGGUUACGGUCAUUGGAA	Clivagem
sly-miR7990a.3-3p	Solyc09g092410.2.1	3.0	14.783	1	21	334	354	UUCAAAUGAUCGUAACUUUUG	CAAAAGCAACGAUUUUUGGA	Clivagem
sly-miR7990a.3-3p	Solyc12g036380.1.1	2.0	8.865	1	20	216	234	UUCAAAUGAUCGUAACUUUU	AAAAGUUACGA-CAUUUGAA	Tradução
sly-miR7990a.3-3p	Solyc02g078340.2.1	3.0	22.057	1	20	133	152	UUCAAAUGAUCGUAACUUUU	AAAACUUACGAUCUUUUGGA	Clivagem
sly-miR7990a.3-3p	Solyc03g034200.2.1	3.0	24.706	1	21	1611	1631	UUCAAAUGAUCGUAACUUUUG	UAGAAGAUUGAACAUUUGAA	Tradução

sly-miR7990a.3-3p	Solyc11g065460.1.1	3.0	14.192	1	20	55	74	UUCAAAUGAUCGUAACUUUU	AAGAGAU AUGCUCAUUUGAA	Tradução
sly-miR7990a.3-3p	Solyc04g008330.1.1	3.0	17.774	1	20	497	516	UUCAAAUGAUCGUAACUUUU	AAAAGUUGUACUCAUUUGAA	Tradução
sly-miR7990a.3-3p	Solyc11g065470.1.1	3.0	16.589	1	20	703	722	UUCAAAUGAUCGUAACUUUU	AAGAGAU AUGCUCAUUUGAA	Tradução
sly-miR7992-3p	Solyc03g046450.2.1	1.0	20.351	1	20	5013	5032	UGUCUAGAUGUGCACUCCAA	AUGGAGUGCACAUCUAGACA	Clivagem
sly-miR7992-3p	Solyc04g056590.2.1	2.5	19.744	1	23	1009	1031	UGUCUAGAUGUGCACUCCAAAGU	GCAUUUGGGUGCUCAUCUAGACA	Tradução
sly-miR7992-3p	Solyc05g055800.2.1	2.5	21.947	1	22	808	829	UGUCUAGAUGUGCACUCCAAAG	CAUUUGGGUGCUCAUCUAGACA	Tradução
sly-miR7992-3p	Solyc02g061970.1.1	3.0	19.977	1	20	258	277	UGUCUAGAUGUGCACUCCAA	UUGGGUGCGCGCCUGGACA	Clivagem
sly-miR7992-3p	Solyc09g007280.2.1	3.0	13.442	1	20	2377	2396	UGUCUAGAUGUGCACUCCAA	UUGGAGUUAUAUCUGGACA	Clivagem
sly-miR7993a-3p	Solyc12g035700.1.1	2.5	6.499	1	20	368	387	AUAUUUAUGUUGUUAACUU	AGGUUGACAACGUAAAAUAA	Clivagem
sly-miR7993a-3p	Solyc05g010240.2.1	3.0	15.065	1	21	1519	1539	AUAUUUAUGUUGUUAACUUA	UCAGUUGAUGACAUGAAAUAU	Clivagem
sly-miR7993a-3p	Solyc04g011350.2.1	3.0	15.712	1	24	3076	3099	AUAUUUAUGUUGUUAACUUAACU	GGUAACGUAGACGACAUAAAAUUAU	Clivagem
sly-miR7993a-3p	Solyc04g080300.2.1	3.0	20.877	1	22	487	508	AUAUUUAUGUUGUUAACUUA	UGAAGUUAUGGUUAAGAUGU	Clivagem
sly-miR7993a-3p	Solyc05g005200.2.1	3.0	15.371	1	20	220	239	AUAUUUAUGUUGUUAACUU	CAGUUAGCAACUUGAAAUAU	Tradução
sly-miR7993a-3p	Solyc02g068830.1.1	3.0	23.495	1	20	422	441	AUAUUUAUGUUGUUAACUU	AAGUUACCAGUAUGAGAUAU	Clivagem
sly-miR7993a-3p	Solyc03g119060.2.1	3.0	9.437	1	20	425	444	AUAUUUAUGUUGUUAACUU	AAGUUAUUGGCAAGAAAUAU	Clivagem
sly-miR7993a-3p	Solyc05g007440.2.1	3.0	1.36	1	21	1373	1393	AUAUUUAUGUUGUUAACUUA	UAAAUUCACAACUUAUUUUUUAU	Tradução
sly-miR7993a-3p	Solyc09g009580.2.1	3.0	17.639	1	24	1219	1242	AUAUUUAUGUUGUUAACUUAACU	AUUGAAGUUAAGAAAUUGAAAUAU	Tradução
sly-miR7993a-3p	Solyc01g110140.2.1	3.0	4.41	1	20	34	53	AUAUUUAUGUUGUUAACUU	AACUUAACAACAAAAAUAC	Clivagem
sly-miR7993a-3p	Solyc01g102590.2.1	3.0	11.358	1	20	137	156	AUAUUUAUGUUGUUAACUU	AGGCUAACACCAUAAAAUGU	Tradução
sly-miR7993a-3p	Solyc10g078800.1.1	3.0	9.395	1	20	3704	3723	AUAUUUAUGUUGUUAACUU	GAGUUAUUUUUUUAAGAUU	Tradução
sly-miR7997a-5p	Solyc05g008790.2.1	1.5	17.862	1	21	1960	1980	AUGCUGCUCGGACUCUUCAAA	UUUGAAGAGUCCGAGCAACAU	Clivagem
sly-miR7997a-5p	Solyc05g012520.2.1	2.0	20.768	1	21	865	885	AUGCUGCUCGGACUCUUCAAA	UUUGAAGAGUCUGAGCAUCAU	Clivagem
sly-miR7997a-5p	Solyc11g010690.1.1	1.5	16.87	1	21	739	759	AUGCUGCUCGGACUCUUCAAA	UUUGAAGGAUCCGAGCAGCAU	Clivagem
sly-miR7997a-5p	Solyc09g007100.2.1	2.0	21.283	1	21	2377	2397	AUGCUGCUCGGACUCUUCAAA	UUUGGAGAGUCCGAGCAACAU	Clivagem
sly-miR7997a-5p	Solyc08g005860.2.1	2.5	19.787	1	21	1728	1748	AUGCUGCUCGGACUCUUCAAA	UUUGAAGAGUCCGAGCAACAA	Clivagem
sly-miR7997a-5p	Solyc05g053760.2.1	2.0	22.499	1	20	978	997	AUGCUGCUCGGACUCUUCAA	UUGAAGAGUUCGAGCAACAU	Clivagem
sly-miR7997a-5p	Solyc02g087770.2.1	3.0	20.579	1	21	1488	1508	AUGCUGCUCGGACUCUUCAAA	UUUGAAGAGUCUGAGCAUCAG	Clivagem
sly-miR7997a-5p	Solyc05g007290.1.1	3.0	17.087	1	21	214	234	AUGCUGCUCGGACUCUUCAAA	UUUGGAGGGUUCGAGCAACAU	Clivagem
sly-miR7997a-5p	Solyc03g005630.2.1	2.5	12.547	1	21	3235	3255	AUGCUGCUCGGACUCUUCAAA	UUUGAAGAGUCAGAGCAACAU	Tradução
sly-miR7997a-5p	Solyc08g066340.1.1	3.0	18.415	1	21	120	140	AUGCUGCUCGGACUCUUCAAA	UUUAAAGAGUCUGAGCAACAU	Clivagem
sly-miR7997a-5p	Solyc07g041910.2.1	3.0	14.193	1	21	439	459	AUGCUGCUCGGACUCUUCAAA	UUUAAAGAGUCUGAGCAACAU	Clivagem
sly-miR7997a-5p	Solyc08g008480.2.1	3.0	11.928	1	21	725	745	AUGCUGCUCGGACUCUUCAAA	UUUGAAAGUUCGAGCAACAU	Clivagem
sly-miR7997a-5p	Solyc04g078590.2.1	3.0	15.504	1	20	1439	1458	AUGCUGCUCGGACUCUUCAA	AAGAAGAGUUUGAGCAGCAU	Clivagem
sly-miR7997a-5p	Solyc02g088230.2.1	3.0	16.608	1	21	2092	2112	AUGCUGCUCGGACUCUUCAAA	UUUGGAGAGUCAUGGCAGCAU	Tradução
sly-miR7997a-5p	Solyc02g083900.2.1	3.0	17.35	1	20	11	30	AUGCUGCUCGGACUCUUCAA	UUCAGGAUUUCGAGCAGCAU	Clivagem

sly-miR8001a-5p	Solyc11g040030.1.1	3.0	10.073	1	21	490	510	UCCUGGGGAUUAGUAUGAAAA	UUUACAUACAAAUCCCGGGA	Clivagem
sly-miR8001b.1-3p	Solyc12g042460.1.1	3.0	20.988	1	22	814	835	ACUUUUUUAUACUAAUCCAGGA	UGCUUGGAUUUGGUACAAAAGU	Clivagem
sly-miR8001b.1-3p	Solyc03g005710.1.1	3.0	16.157	1	20	740	759	ACUUUUUUAUACUAAUCCAG	CUGAGGAUUACUAAAGAGU	Tradução
sly-miR8001b.1-3p	Solyc12g094410.1.1	3.0	16.816	1	20	932	951	ACUUUUUUAUACUAAUCCAG	CUGGUGAUUUUGUAUAAAGGU	Tradução
sly-miR8001b.1-3p	Solyc03g081260.2.1	3.0	14.068	1	20	2379	2398	ACUUUUUUAUACUAAUCCAG	CUGGGCAUUACCAUAAAAGU	Tradução
sly-miR8001b.1-5p	Solyc04g083010.2.1	1.5	19.761	1	20	1301	1320	AUGGGGAUUAGUAUGAAAAU	AUUUUCAUUGCUGAUCCUCAU	Clivagem
sly-miR8001b.1-5p	Solyc10g074970.1.1	3.0	20.439	1	21	936	956	AUGGGGAUUAGUAUGAAAAU	AAUUUUUGUGCUGAUUUCCA	Clivagem
sly-miR8001b.1-5p	Solyc02g084810.2.1	2.5	12.173	1	21	1687	1707	AUGGGGAUUAGUAUGAAAAU	AAUUUUUGGUUUAAUCCCAU	Clivagem
sly-miR8001b.1-5p	Solyc09g090680.2.1	2.5	9.36	1	20	837	856	AUGGGGAUUAGUAUGAAAAU	AUCUUCAUACUGGUCUCCA	Clivagem
sly-miR8001b.1-5p	Solyc03g031780.2.1	3.0	12.091	1	20	95	114	AUGGGGAUUAGUAUGAAAAU	GUUUUCGUACUAAUCCAAU	Clivagem
sly-miR8001b.1-5p	Solyc02g031930.2.1	3.0	15.018	1	21	115	135	AUGGGGAUUAGUAUGAAAAU	AUUUUUCAUAAUAAUCCUUAU	Tradução
sly-miR8001b.1-5p	Solyc10g081760.1.1	3.0	12.591	1	21	985	1005	AUGGGGAUUAGUAUGAAAAU	GAUUUUGAUACUGAUCCACA	Clivagem
sly-miR8001b.1-5p	Solyc03g117550.1.1	3.0	11.985	1	20	143	162	AUGGGGAUUAGUAUGAAAAU	GUUCUCGUACUAAUCCUUAU	Clivagem
sly-miR8001b.2-5p	Solyc04g083010.2.1	1.5	19.761	1	20	1301	1320	AUGGGGAUUAGUAUGAAAAU	AUUUUCAUUGCUGAUCCUCAU	Clivagem
sly-miR8001b.2-5p	Solyc10g074970.1.1	3.0	20.439	1	21	936	956	AUGGGGAUUAGUAUGAAAAU	AAUUUUUGUGCUGAUUUCCA	Clivagem
sly-miR8001b.2-5p	Solyc02g084810.2.1	2.5	12.173	1	21	1687	1707	AUGGGGAUUAGUAUGAAAAU	AAUUUUUGGUUUAAUCCCAU	Clivagem
sly-miR8001b.2-5p	Solyc09g090680.2.1	2.5	9.36	1	20	837	856	AUGGGGAUUAGUAUGAAAAU	AUCUUCAUACUGGUCUCCA	Clivagem
sly-miR8001b.2-5p	Solyc03g031780.2.1	3.0	12.091	1	20	95	114	AUGGGGAUUAGUAUGAAAAU	GUUUUCGUACUAAUCCAAU	Clivagem
sly-miR8001b.2-5p	Solyc02g031930.2.1	3.0	15.018	1	21	115	135	AUGGGGAUUAGUAUGAAAAU	AUUUUUCAUAAUAAUCCUUAU	Tradução
sly-miR8001b.2-5p	Solyc10g081760.1.1	3.0	12.591	1	21	985	1005	AUGGGGAUUAGUAUGAAAAU	GAUUUUGAUACUGAUCCACA	Clivagem
sly-miR8001b.2-5p	Solyc03g117550.1.1	3.0	11.985	1	20	143	162	AUGGGGAUUAGUAUGAAAAU	GUUCUCGUACUAAUCCUUAU	Clivagem
sly-miR8006.1-5p	Solyc11g066760.1.1	3.0	24.74	1	21	307	327	UAGUUUUUGAACGACAGGGGC	GCUCCUGAUGUCAAAGUUA	Clivagem
sly-miR8006.1-5p	Solyc01g104210.2.1	3.0	14.745	1	24	1117	1141	UAGUUUUU-GAACGACAGGGGCACC	GAUGUCCUGUCAUUCUAAAACUA	Tradução
sly-miR8006.1-5p	Solyc12g044670.1.1	2.0	11.735	1	20	47	66	UAGUUUUUGAACGACAGGGG	CGCCUGUCGUCCAAAAACUA	Tradução
sly-miR8006.1-5p	Solyc01g108440.2.1	2.5	7.818	1	22	37	58	UAGUUUUUGAACGACAGGGGCA	UUCCCCUGUUUUUCUAAAACUA	Clivagem
sly-miR8006.1-5p	Solyc04g073980.2.1	3.0	13.235	1	24	1258	1281	UAGUUUUUGAACGACAGGGGCACC	GGGACCCGUGUCGUGCAAAAGUUA	Tradução
sly-miR8006.1-5p	Solyc12g062940.1.1	3.0	8.371	1	20	1175	1194	UAGUUUUUGAACGACAGGGG	CCCUUGAUUUUCAAACUA	Clivagem
sly-miR8006.1-5p	Solyc06g051830.1.1	3.0	24.843	1	20	406	424	UAGUUUUUGAACGACAGGGG	UCUCUG-CGUUCAAAAACUA	Clivagem
sly-miR8006.2-3p	Solyc09g011210.2.1	2.0	12.798	1	22	451	472	UGCCUGCCGUCCAAAAACUAG	CAAGUUUCUGGAUGGCAGGGUA	Clivagem
sly-miR8006.2-5p	Solyc01g088440.2.1	3.0	12.584	1	24	604	627	UAGUUUUUGGAUUACAGAGACACC	GCUGUCUCUGUAGGUAAAAACUA	Tradução
sly-miR8006.2-5p	Solyc04g077450.2.1	3.0	16.943	1	22	937	958	UAGUUUUUGGAUUACAGAGACA	UCUCUUUGUAAUCUUAAGCUA	Clivagem
sly-miR8006.2-5p	Solyc11g008960.1.1	2.5	9.76	1	20	1194	1213	UAGUUUUUGGAUUACAGAGA	ACACUGUAAUCCAAAAUUA	Clivagem
sly-miR8006.2-5p	Solyc01g057760.2.1	3.0	23.631	1	23	375	397	UAGUUUUUGGAUUACAGAGACAC	GUACUUCUGGAUCCAGAAACUA	Clivagem
sly-miR8006.2-5p	Solyc03g082660.2.1	2.5	14.458	1	22	1452	1473	UAGUUUUUGGAUUACAGAGACA	UAUGUUUGUAAUGCAAAAACUA	Tradução
sly-miR8006.2-5p	Solyc03g078520.2.1	3.0	13.788	1	20	1203	1222	UAGUUUUUGGAUUACAGAGA	ACACUGUAAUCCAAAGAUUA	Clivagem

sly-miR8006.2-5p	Solyc05g054010.2.1	3.0	10.87	1	20	2859	2878	UAGUUUUUGGAUUACAGAGA	UCUCUGCAAUCUAGAAACUC	Clivagem
sly-miR8006.2-5p	Solyc12g057130.1.1	3.0	20.579	1	20	651	670	UAGUUUUUGGAUUACAGAGA	UCUUUUUUAUCCGGAUUUA	Clivagem
sly-miR8006.2-5p	Solyc08g080980.2.1	3.0	9.073	1	20	6	25	UAGUUUUUGGAUUACAGAGA	UCUUUGAACUCCAAAAUUA	Clivagem
sly-miR8007a-5p	Solyc08g076400.2.1	2.5	12.121	1	24	65	88	AUGUGGCACUUUUCGGAUUUCGAG	CUCGAAAUUUGAACAGUGCCACGU	Tradução
sly-miR8007a-5p	Solyc02g077670.2.1	3.0	12.625	1	22	87	108	AUGUGGCACUUUUCGGAUUUCG	UGAAGUCCGGAAGUUCUACAU	Clivagem
sly-miR8007a-5p	Solyc03g095970.2.1	3.0	17.175	1	20	642	661	AUGUGGCACUUUUCGGAUUU	AAAUUUGAAAGGUGUUACGU	Clivagem
sly-miR8007a-5p	Solyc03g120350.2.1	3.0	17.549	1	22	1880	1901	AUGUGGCACUUUUCGGAUUUCG	CUAAAUCUGGAAAGCGCCAUGU	Clivagem
sly-miR8007a-5p	Solyc02g068730.2.1	3.0	18.58	1	20	1494	1513	AUGUGGCACUUUUCGGAUUU	GGAUGCAAAAGUGCCACAU	Clivagem
sly-miR8007b-5p	Solyc07g006030.2.1	3.0	19.588	1	24	4640	4663	AUGUGACACUUUUUGGAUUUCGAG	CUGGUGAUCUAGGAAGUGUCACAU	Clivagem
sly-miR8007b-5p	Solyc02g082900.2.1	3.0	12.853	1	21	920	940	AUGUGACACUUUUUGGAUUUC	GAAUGCAAAAGUAUCAUUAU	Clivagem
sly-miR8007b-5p	Solyc03g083120.1.1	3.0	16.184	1	23	430	452	AUGUGACACUUUUUGGAUUUCGA	UUUAAAUCCAACAAGUCUCAUUAU	Clivagem
sly-miR8007b-5p	Solyc03g095970.2.1	3.0	17.175	1	20	642	661	AUGUGACACUUUUUGGAUUU	AAAUUUGAAAGGUGUUACGU	Clivagem
sly-miR8007b-5p	Solyc12g032930.1.1	3.0	9.813	1	24	668	691	AUGUGACACUUUUUGGAUUUCGAG	CUGAGAAUCCAAAAACUGUUACAG	Tradução
sly-miR8007b-5p	Solyc04g072830.2.1	3.0	15.616	1	22	2405	2426	AUGUGACACUUUUUGGAUUUCG	CCAAAACCAGAAAUGUUACAU	Tradução
sly-miR8008a.1-5p	Solyc03g122130.2.1	2.5	19.136	1	20	558	577	AUUUCCAGAAAAGCGACGGA	UCCGUCGCUUUGCUGGAAGG	Tradução
sly-miR8008a.1-5p	Solyc08g065980.2.1	3.0	13.442	1	20	4915	4934	AUUUCCAGAAAAGCGACGGA	UCCCUCCCUUCUUGGAAAU	Tradução
sly-miR8008a.2-3p	Solyc03g032020.2.1	2.5	17.408	1	20	28	47	AUUUACAGAAAAGCGACGGA	UCCGUUUCUUCUCUGUAAAAU	Tradução
sly-miR8008a.2-3p	Solyc01g058720.2.1	3.0	7.3	1	20	88	107	AUUUACAGAAAAGCGACGGA	UUCGCCUUUUUUCUGUAAAAU	Clivagem
sly-miR8008a.2-5p	Solyc03g122130.2.1	3.0	19.136	1	20	558	577	AUUUCCAGAAAAGUGACGGA	UCCGUCGCUUUGCUGGAAGG	Tradução
sly-miR8008a.2-5p	Solyc10g081740.1.1	3.0	19.382	1	20	224	243	AUUUCCAGAAAAGUGACGGA	UGCAUCACUUUUCUGGAAAU	Tradução
sly-miR8008a.2-5p	Solyc08g065980.2.1	3.0	13.442	1	20	4915	4934	AUUUCCAGAAAAGUGACGGA	UCCCUCCCUUCUUGGAAAU	Tradução
sly-miR8008b.1-3p	Solyc03g095720.2.1	2.0	20.678	1	20	250	269	CAAGGAAAGCGACAGACAUU	AAUGUUUGUUGUUUUUCUUG	Clivagem
sly-miR8008b.1-3p	Solyc06g083380.2.1	3.0	9.579	1	20	1396	1415	CAAGGAAAGCGACAGACAUU	CGUGUCUGUCUCUUUUUCUUG	Tradução
sly-miR8008b.1-3p	Solyc02g021200.1.1	2.5	11.483	1	20	231	250	CAAGGAAAGCGACAGACAUU	AAUGUCUGUAACUUUUUCUUG	Tradução
sly-miR8008b.1-3p	Solyc08g075390.2.1	2.5	24.528	1	20	2087	2106	CAAGGAAAGCGACAGACAUU	AAUGUAUGUCUCUUUUUCUUG	Tradução
sly-miR8008b.1-3p	Solyc06g074240.1.1	3.0	20.597	1	20	1299	1318	CAAGGAAAGCGACAGACAUU	AUUGUUUGACGCUUUCUUG	Clivagem
sly-miR8008b.1-3p	Solyc04g078860.2.1	3.0	15.958	1	20	2214	2233	CAAGGAAAGCGACAGACAUU	AAUUUCUGCUGCUUUCUUG	Clivagem
sly-miR8008b.1-5p	Solyc11g071570.1.1	3.0	15.958	1	20	2983	3002	AAACCCAGAAAAGCGACGGA	UCCUUUGAUUUUUUGGGUUU	Clivagem
sly-miR8008b.2-3p	Solyc09g065990.2.1	3.0	16.106	1	23	76	97	AAACCCAGAAAAGCGACAGACAG	CUGUCUAUCG-UUUUCUGGGUUU	Clivagem
sly-miR8008b.3-3p	Solyc11g071570.1.1	3.0	15.958	1	20	2983	3002	AAACCCAGAAAAGCGACGGA	UCCUUUGAUUUUUUGGGUUU	Clivagem
sly-miR8008b.3-5p	Solyc06g054110.1.1	2.5	21.291	1	20	51	70	AAUCCCAGAAAAGCGACUGA	UCAGUCACUUUGCUGGGGUU	Tradução
sly-miR8008b.3-5p	Solyc01g006320.2.1	3.0	16.292	1	20	636	655	AAUCCCAGAAAAGCGACUGA	UUAGUUUGUUGUUUUUGGGAUU	Tradução
sly-miR8008b.3-5p	Solyc06g054120.1.1	2.5	21.411	1	20	600	619	AAUCCCAGAAAAGCGACUGA	UCAGUCACUUUGCUGGGGUU	Tradução
sly-miR8011a.1-3p	Solyc03g121920.2.1	3.0	10.026	1	20	1045	1064	AAUAAAAAGAAGUCUCACGC	AUGUGAGACUUCUUUUUCUU	Clivagem
sly-miR8011a.1-3p	Solyc01g005130.2.1	3.0	14.135	1	22	912	932	AAUAAAAAGAAGUCUCACGCAA	UCGCGUUAGACU-CUUUUUAUU	Tradução

sly-miR8011a.1-5p	Solyc10g006360.1.1	3.0	14.636	1	22	370	391	UUGUGUGAGGUCUCUUUUUGUU	GACAGAAAGGGACCUUACAUGG	Clivagem
sly-miR8011a.1-5p	Solyc02g072100.2.1	3.0	19.022	1	23	449	471	UUGUGUGAGGUCUCUUUUUGUUU	AGGCAGAAAUAGGCCUUGCACAA	Clivagem
sly-miR8011a.1-5p	Solyc02g087060.2.1	3.0	15.069	1	23	1249	1271	UUGUGUGAGGUCUCUUUUUGUUU	AAGCAGAAUUGGACGUCACACAA	Tradução
sly-miR8011a.1-5p	Solyc04g080600.2.1	3.0	14.872	1	23	451	473	UUGUGUGAGGUCUCUUUUUGUUU	AGGCAAAAAGAGUCCUCAUGUGA	Tradução
sly-miR8011a.1-5p	Solyc06g082040.1.1	2.5	22.643	1	21	2078	2098	UUGUGUGAGGUCUCUUUUUGU	GCAGAGGGAGACCUCGUACAA	Clivagem
sly-miR8011a.1-5p	Solyc03g098560.1.1	2.5	11.74	1	23	603	625	UUGUGUGAGGUCUCUUUUUGUUU	GGGGAAAAAGAGACUACACACAA	Clivagem
sly-miR8011a.1-5p	Solyc10g084270.1.1	3.0	15.182	1	22	879	900	UUGUGUGAGGUCUCUUUUUGUU	GGCAAAGAGUGAUCUCGUACAA	Clivagem
sly-miR8011a.1-5p	Solyc10g047340.1.1	3.0	11.402	1	20	650	669	UUGUGUGAGGUCUCUUUUUG	AGAAAAGAGAGCUCUACAA	Tradução
sly-miR8011a.1-5p	Solyc05g053250.2.1	3.0	18.666	1	20	250	269	UUGUGUGAGGUCUCUUUUUG	AAGAAAGAGACCACAUACAA	Clivagem
sly-miR8011a.1-5p	Solyc07g040760.1.1	3.0	12.174	1	20	296	315	UUGUGUGAGGUCUCUUUUUG	CAAAAAGACAUCUCUCACAA	Clivagem
sly-miR8011a.1-5p	Solyc04g081230.2.1	3.0	18.464	1	20	1702	1721	UUGUGUGAGGUCUCUUUUUG	CUAGAAGAGAUUUCACACGA	Clivagem
sly-miR8011a.1-5p	Solyc01g006640.1.1	3.0	16.406	1	20	2983	3002	UUGUGUGAGGUCUCUUUUUG	CCAGAAGAGACCUUUAUACAG	Clivagem
sly-miR8011a.2-3p	Solyc09g009260.2.1	2.5	15.523	1	20	1263	1282	ACAAAAAGAAGCCUCACACA	UGUGUAAGGCUUCUUUUUUU	Clivagem
sly-miR8011a.2-3p	Solyc08g083290.2.1	3.0	20.219	1	23	2445	2467	ACAAAAAGAAGCCUCACACAACU	AUUUGUGUUAGGUGUUUUUUUGU	Tradução
sly-miR8013-3p	Solyc01g009770.2.1	2.5	16.104	1	23	879	901	AGAAGAAAAUCACACCGUCAGAA	UAUUUAUCGUGUGAUUUUCUUCU	Clivagem
sly-miR8013-3p	Solyc05g056160.2.1	3.0	14.497	1	20	967	986	AGAAGAAAAUCACACCGUCA	UGACUGUUUAAUUUUCUUCU	Tradução
sly-miR8019.1-3p	Solyc01g110040.2.1	1.5	16.077	1	24	2255	2278	AAAAGAAUGACCUGGUUUGACUUG	CAAGUCAAAUCUAGGUCAUUCUUUA	Clivagem
sly-miR8019.1-3p	Solyc01g106940.2.1	3.0	17.136	1	24	10783	10806	AAAAGAAUGACCUGGUUUGACUUG	CAAGUCAAAUCAGACUUAUUCUUUU	Tradução
sly-miR8019.1-3p	Solyc07g009410.2.1	2.0	19.298	1	20	1063	1082	AAAAGAAUGACCUGGUUUGA	UCAAACCAGGUAAUUCUUUC	Tradução
sly-miR8019.1-3p	Solyc09g065710.1.1	3.0	12.222	1	20	869	888	AAAAGAAUGACCUGGUUUGA	UGAAAUUGGGUUUAUUCUUUU	Clivagem
sly-miR8019.1-5p	Solyc01g110040.2.1	0.5	11.849	1	22	2087	2108	AGGAAAGGAGGUUAUUCUUUUU	AAAAAGAAUGACCUCUUUCCU	Clivagem
sly-miR8019.1-5p	Solyc06g051060.2.1	3.0	18.142	1	23	959	981	AGGAAAGGAGGUUAUUCUUUUUG	UAAAGAGAAUAUUCUCUUUCCU	Tradução
sly-miR8019.1-5p	Solyc08g079060.2.1	2.0	15.734	1	20	1509	1528	AGGAAAGGAGGUUAUUCUUU	AAAGGAUGACCUUCUUUUUCU	Clivagem
sly-miR8019.1-5p	Solyc04g074110.2.1	3.0	14.081	1	22	359	380	AGGAAAGGAGGUUAUUCUUUUU	GAAAACAAUGAUUCCUUUCU	Clivagem
sly-miR8019.1-5p	Solyc10g080540.1.1	3.0	9.454	1	21	600	620	AGGAAAGGAGGUUAUUCUUUU	AAAAGAACAUCUGCUUUUCU	Clivagem
sly-miR8019.2-3p	Solyc01g110040.2.1	1.5	16.077	1	24	2255	2278	AAAAGAAUGACCUGGUUUGACUUG	CAAGUCAAAUCUAGGUCAUUCUUUA	Clivagem
sly-miR8019.2-3p	Solyc01g106940.2.1	3.0	17.136	1	24	10783	10806	AAAAGAAUGACCUGGUUUGACUUG	CAAGUCAAAUCAGACUUAUUCUUUU	Tradução
sly-miR8019.2-3p	Solyc07g009410.2.1	2.0	19.298	1	20	1063	1082	AAAAGAAUGACCUGGUUUGA	UCAAACCAGGUAAUUCUUUC	Tradução
sly-miR8019.2-3p	Solyc09g065710.1.1	3.0	12.222	1	20	869	888	AAAAGAAUGACCUGGUUUGA	UGAAAUUGGGUUUAUUCUUUU	Clivagem
sly-miR8020-5p	Solyc06g072390.2.1	3.0	10.974	1	24	617	640	AAUUUCAUUGAGUAUGUUGUUGU	AAUAACAACAUACCCAGUGCAAUU	Tradução
sly-miR8020-5p	Solyc11g010950.1.1	3.0	18.237	1	24	933	956	AAUUUCAUUGAGUAUGUUGUUGU	AGCAACAACAUUCUCAAUGAAGCU	Clivagem
sly-miR8020-5p	Solyc01g099470.2.1	3.0	8.44	1	23	724	746	AAUUUCAUUGAGUAUGUUGUUGU	ACGACAACAUCUUAUCAAUA	Clivagem
sly-miR8020-5p	Solyc05g010800.2.1	3.0	14.492	1	23	1179	1201	AAUUUCAUUGAGUAUGUUGUUGU	AUAACAUAUUAUCAGUGUAAUU	Clivagem
sly-miR8020-5p	Solyc03g120940.2.1	3.0	11.614	1	24	956	979	AAUUUCAUUGAGUAUGUUGUUGU	AACGACAACACCCCACUGAAAUU	Tradução
sly-miR8020-5p	Solyc09g059520.2.1	3.0	13.924	1	24	839	862	AAUUUCAUUGAGUAUGUUGUUGU	GGUAAUAUAUACUGAGUGAAGUU	Tradução

sly-miR8020-5p	Solyc10g076640.1.1	3.0	11.651	1	24	55	78	AAUUUCAUUGAGUAUGUUGUUGUU	AAUUGUAAACAUACCCAAUGAAAUG	Tradução
sly-miR8020-5p	Solyc07g019490.1.1	3.0	6.679	1	23	30	52	AAUUUCAUUGAGUAUGUUGUUGUU	AAGACAACAUAUUCAAUCAAUUC	Clivagem
sly-miR8020-5p	Solyc02g070030.2.1	3.0	16.093	1	22	1074	1095	AAUUUCAUUGAGUAUGUUGUUG	CAACAAGAUACCCAGUGGAAUU	Tradução
sly-miR8020-5p	Solyc05g055690.1.1	3.0	10.604	1	22	3090	3111	AAUUUCAUUGAGUAUGUUGUUG	CAACAUAUUAUUAUUGAAAUU	Clivagem
sly-miR8020-5p	Solyc09g059100.1.1	2.5	19.36	1	20	113	132	AAUUUCAUUGAGUAUGUUGU	AUGAUUAUUAUCAAUGAGAUU	Clivagem
sly-miR8020-5p	Solyc09g066070.2.1	2.5	18.86	1	20	287	306	AAUUUCAUUGAGUAUGUUGU	AUGAUUAUUAUCAAUGAGAUU	Clivagem
sly-miR8020-5p	Solyc09g066030.1.1	2.5	17.124	1	20	1163	1182	AAUUUCAUUGAGUAUGUUGU	AUGAUUAUUAUCAAUGAGAUU	Clivagem
sly-miR8020-5p	Solyc07g049340.1.1	3.0	12.241	1	24	39	62	AAUUUCAUUGAGUAUGUUGUUGUU	AGAGACAACAUCUUAUUGAAAAU	Clivagem
sly-miR8020-5p	Solyc10g005390.2.1	3.0	19.683	1	24	538	561	AAUUUCAUUGAGUAUGUUGUUGUU	GGUGAAUACAUACUUGAUGAAAAU	Clivagem
sly-miR8020-5p	Solyc10g005410.2.1	3.0	17.654	1	24	581	604	AAUUUCAUUGAGUAUGUUGUUGUU	GGUGAAUACAUACUUGAUGAAAAU	Clivagem
sly-miR8020-5p	Solyc04g017740.1.1	3.0	13.863	1	22	185	206	AAUUUCAUUGAGUAUGUUGUUG	CAACACCAUUGUCAUUGAAAAU	Clivagem
sly-miR8020-5p	Solyc05g010360.1.1	3.0	15.226	1	22	57	78	AAUUUCAUUGAGUAUGUUGUUG	UGAUAAACGUAUUGAUGAGAUU	Clivagem
sly-miR8020-5p	Solyc03g115810.2.1	3.0	15.205	1	20	1673	1692	AAUUUCAUUGAGUAUGUUGU	CCAUGUACUUAUUGAAGUU	Clivagem
sly-miR8020-5p	Solyc02g064620.2.1	3.0	11.948	1	20	707	726	AAUUUCAUUGAGUAUGUUGU	UCGACGUGCUUAAUGAAAAU	Clivagem
sly-miR8020-5p	Solyc02g064600.2.1	3.0	11.948	1	20	707	726	AAUUUCAUUGAGUAUGUUGU	UCGACGUGCUUAAUGAAAAU	Clivagem
sly-miR8020-5p	Solyc01g105980.2.1	3.0	18.283	1	20	403	422	AAUUUCAUUGAGUAUGUUGU	AUGACGUUAUUGCAUGGAAUU	Clivagem
sly-miR8020-5p	Solyc05g014380.2.1	2.5	8.667	1	21	505	525	AAUUUCAUUGAGUAUGUUGUU	GACAACAAAUACAUGAAAAU	Tradução
sly-miR8020-5p	Solyc08g005390.1.1	3.0	12.615	1	24	1713	1737	AAUUUCAUUGAGUAUGUUGU-UGUU	AAUACAUAUAAUACUUGAUGAGAUU	Clivagem
sly-miR8021.1-5p	Solyc05g007140.2.1	3.0	16.886	1	21	16	36	AUUCAAGGCUCAAACUCGAGA	UUUCAAGUUUGAGCUUUGGGU	Clivagem
sly-miR8021.1-5p	Solyc06g075260.2.1	2.5	20.714	1	20	1602	1621	AUUCAAGGCUCAAACUCGAG	UUCGAGUGUGAGUUUUGAAU	Clivagem
sly-miR8021.1-5p	Solyc04g078980.2.1	3.0	17.73	1	21	1453	1473	AUUCAAGGCUCAAACUCGAGA	UCUCGGGUUAAAGCCUUGGAU	Tradução
sly-miR8021.1-5p	Solyc02g014660.1.1	3.0	22.424	1	19	173	192	AUUCAAGGC-UCAAACUCGA	UCAAGUUUGAUGCCUUGAAU	Tradução
sly-miR8021.2-5p	Solyc05g007140.2.1	3.0	16.886	1	21	16	36	AUUCAAGGCUCAAACUCGAGA	UUUCAAGUUUGAGCUUUGGGU	Clivagem
sly-miR8021.2-5p	Solyc06g075260.2.1	2.5	20.714	1	20	1602	1621	AUUCAAGGCUCAAACUCGAG	UUCGAGUGUGAGUUUUGAAU	Clivagem
sly-miR8021.2-5p	Solyc04g078980.2.1	3.0	17.73	1	21	1453	1473	AUUCAAGGCUCAAACUCGAGA	UCUCGGGUUAAAGCCUUGGAU	Tradução
sly-miR8021.2-5p	Solyc02g014660.1.1	3.0	22.424	1	19	173	192	AUUCAAGGC-UCAAACUCGA	UCAAGUUUGAUGCCUUGAAU	Tradução
sly-miR8021.3-5p	Solyc05g007140.2.1	3.0	16.886	1	21	16	36	AUUCAAGGCUCAAACUCGAGA	UUUCAAGUUUGAGCUUUGGGU	Clivagem
sly-miR8021.3-5p	Solyc06g075260.2.1	2.5	20.714	1	20	1602	1621	AUUCAAGGCUCAAACUCGAG	UUCGAGUGUGAGUUUUGAAU	Clivagem
sly-miR8021.3-5p	Solyc04g078980.2.1	3.0	17.73	1	21	1453	1473	AUUCAAGGCUCAAACUCGAGA	UCUCGGGUUAAAGCCUUGGAU	Tradução
sly-miR8021.3-5p	Solyc02g014660.1.1	3.0	22.424	1	19	173	192	AUUCAAGGC-UCAAACUCGA	UCAAGUUUGAUGCCUUGAAU	Tradução
sly-miR8025-3p	Solyc08g082630.2.1	3.0	14.847	1	23	832	854	UUUAAUUGCAUGCCGACUGUGUG	UAUGCAGUUGGCAUGCGAUUCAA	Clivagem
sly-miR8025-5p	Solyc03g115120.1.1	3.0	10.279	1	19	1010	1029	ACACACUACACA-UGCAAUU	AAUUGUACUGUGUGGUGUGU	Clivagem
sly-miR8033-3p	Solyc08g079710.2.1	3.0	19.359	1	20	1686	1705	AUUUCUGCAGCUUUGGAAUU	GAUUUUAAAGCUGCGGAAAA	Clivagem
sly-miR8033-3p	Solyc10g081240.1.1	2.5	15.873	1	20	514	533	AUUUCUGCAGCUUUGGAAUU	GAUUCAAAGUUGCAGAGAU	Clivagem
sly-miR8033-3p	Solyc01g096920.2.1	3.0	21.766	1	20	1541	1560	AUUUCUGCAGCUUUGGAAUU	GGUUUUGAAGUUGCAGAAAU	Clivagem

sly-miR8033-3p	Solyc03g096990.2.1	3.0	21.478	1	20	1435	1454	AUUUCUGCAGCUUUGGAAUU	AAUUUCAUGGUUGCAGAGAU	Clivagem
sly-miR8033-3p	Solyc08g076480.2.1	3.0	14.342	1	20	929	948	AUUUCUGCAGCUUUGGAAUU	AAUUUUAAACCUCAGAAAU	Tradução
sly-miR8033-3p	Solyc05g013380.2.1	3.0	14.296	1	20	1117	1137	AUUUCUGCAGCU-UUGGAAUU	GGUUUCAAACAGCUGCAGAAAU	Clivagem
sly-miR8033-5p	Solyc05g051220.2.1	3.0	15.368	1	22	2504	2525	UUCCAAAGCUGCAGAAAUGAGU	GCUCGUUACUGCAGCUUCGGAA	Clivagem
sly-miR8033-5p	Solyc11g068360.1.1	3.0	15.933	1	22	30	51	UUCCAAAGCUGCAGAAAUGAGU	AUUCAUCUCUUCAGCUUUGGAU	Clivagem
sly-miR8033-5p	Solyc00g007200.2.1	3.0	18.76	1	21	85	105	UUCCAAAGCUGCAGAAAUGAG	CUCAUUUCUUAUUGCUUUGGAG	Tradução
sly-miR8033-5p	Solyc08g061000.2.1	3.0	12.49	1	20	113	132	UUCCAAAGCUGCAGAAAUGA	UUUUUUCUGCAGCUUCGGAA	Clivagem
sly-miR8033-5p	Solyc01g095290.2.1	2.5	24.267	1	20	754	773	UUCCAAAGCUGCAGAAAUGA	UCAUUCUCCAGUUUUGGAA	Clivagem
sly-miR8033-5p	Solyc08g076050.2.1	3.0	15.791	1	21	1838	1858	UUCCAAAGCUGCAGAAAUGAG	CUGAUGUCUUCAGCUUUGGAA	Clivagem
sly-miR8033-5p	Solyc07g039550.2.1	3.0	13.766	1	20	2164	2183	UUCCAAAGCUGCAGAAAUGA	UCACUUCUGCAACUUUGGAU	Tradução
sly-miR8033-5p	Solyc11g044480.1.1	3.0	15.491	1	20	620	639	UUCCAAAGCUGCAGAAAUGA	UUUUUACUGCAACUUUGGAG	Tradução
sly-miR8033-5p	Solyc08g081640.2.1	3.0	17.127	1	21	2790	2810	UUCCAAAGCUGCAGAAAUGAG	UUCAACUCUGGAGCUUUGGAA	Tradução
sly-miR8038a-5p	Solyc04g079770.2.1	3.0	13.29	1	21	641	661	CCUUGUGAGUAAGUUGAAUCU	AGAUUUAAUUUAUUCACAGGA	Clivagem
sly-miR8038a-5p	Solyc02g078510.2.1	3.0	18.308	1	21	350	370	CCUUGUGAGUAAGUUGAAUCU	AGAUUCAGUGUACUCACAAGA	Clivagem
sly-miR8038a-5p	Solyc10g054080.1.1	2.5	21.399	1	20	211	230	CCUUGUGAGUAAGUUGAAUC	GAUUCGGUGUACUCACAAGG	Clivagem
sly-miR8038a-5p	Solyc09g074280.1.1	3.0	13.429	1	20	748	767	CCUUGUGAGUAAGUUGAAUC	AAUUCAAUUGAUUCACAAGG	Tradução
sly-miR8038a-5p	Solyc10g074820.1.1	3.0	15.814	1	22	548	569	CCUUGUGAGUAAGUUGAAUCUC	GCGUUUCAUUGACUUACAAGG	Tradução
sly-miR8038a-5p	Solyc03g005380.2.1	3.0	9.709	1	20	2310	2329	CCUUGUGAGUAAGUUGAAUC	AACUCAACUUACACACAAGG	Clivagem
sly-miR8038a-5p	Solyc05g008070.2.1	3.0	10.414	1	20	1482	1501	CCUUGUGAGUAAGUUGAAUC	GUUUUCUACUUACUCACAAGA	Clivagem
sly-miR8038a-5p	Solyc12g088440.1.1	3.0	15.779	1	20	322	341	CCUUGUGAGUAAGUUGAAUC	GAAUCAGCUUUUUCACAAGG	Tradução
sly-miR8038a-5p	Solyc05g054970.2.1	3.0	16.177	1	20	760	779	CCUUGUGAGUAAGUUGAAUC	GAUUGUGCUUGCUCACAAGG	Clivagem
sly-miR8039.1-5p	Solyc06g073080.2.1	3.0	12.225	1	20	1227	1246	UUUCCUAUCUGAACUAUGAC	GAUUAUAGUUCAGAUUAGAAA	Clivagem
sly-miR8039.1-5p	Solyc01g111530.2.1	3.0	17.033	1	20	495	514	UUUCCUAUCUGAACUAUGAC	GUCAUGGUUCCGAUAGGGAU	Tradução
sly-miR8039.1-5p	Solyc02g069420.2.1	3.0	12.635	1	20	515	534	UUUCCUAUCUGAACUAUGAC	GUUAAGGUUCAUUAUAGGAAA	Tradução
sly-miR8039.2-5p	Solyc01g109660.2.1	2.5	23.526	1	21	558	578	UUUCCUAUCGGAACUAUACACC	GGUGGUGGUUCCGAUGGGAAC	Clivagem
sly-miR8039.2-5p	Solyc04g009880.1.1	2.5	10.226	1	21	174	194	UUUCCUAUCGGAACUAUACACC	GGUGAUGGUUGUGAUAGGAGA	Tradução
sly-miR8039.2-5p	Solyc12g044640.1.1	3.0	22.153	1	21	9	29	UUUCCUAUCGGAACUAUACACC	GGUGAUGGCCGCCGAUGGGAAA	Clivagem
sly-miR8039.2-5p	Solyc01g111530.2.1	3.0	17.033	1	20	495	514	UUUCCUAUCGGAACUAUACAC	GUCAUGGUUCCGAUAGGGAU	Clivagem
sly-miR8045.1-5p	Solyc03g031930.1.1	3.0	15.166	1	21	103	123	AUUGAUAGUUGAGGUGUGUUU	AAUCGCACUUCAGCUAUCAGU	Clivagem
sly-miR8045.1-5p	Solyc05g052430.1.1	2.5	10.514	1	20	1084	1103	AUUGAUAGUUGAGGUGUGUU	AACUAACUCAAUUGUCAAU	Clivagem
sly-miR8045.1-5p	Solyc03g123990.2.1	3.0	11.929	1	20	171	190	AUUGAUAGUUGAGGUGUGUU	GGCACACCUCAACUACUAAU	Clivagem
sly-miR8045.2-5p	Solyc03g031930.1.1	3.0	15.166	1	21	103	123	AUUGAUAGUUGAGGUGUGUUU	AAUCGCACUUCAGCUAUCAGU	Clivagem
sly-miR8045.2-5p	Solyc05g052430.1.1	2.5	10.514	1	20	1084	1103	AUUGAUAGUUGAGGUGUGUU	AACUAACUCAAUUGUCAAU	Clivagem
sly-miR8045.2-5p	Solyc03g123990.2.1	3.0	11.929	1	20	171	190	AUUGAUAGUUGAGGUGUGUU	GGCACACCUCAACUACUAAU	Clivagem
sly-miR8051-5p	Solyc04g008520.2.1	1.5	7.271	1	20	1350	1369	UAGUAUGGUAGAAAGAUUCA	UGAAUCUUUCUACCAUUAUC	Clivagem

sly-miR8051-5p	Solyc10g051310.1.1	2.0	19.538	1	20	296	315	UAGUAUGGUAGAAAGAUUCA	UGGAUCUUUCUACCGUGUUA	Clivagem
sly-miR8051-5p	Solyc03g097280.2.1	2.5	23.005	1	20	1523	1542	UAGUAUGGUAGAAAGAUUCA	UGGAUGUUUCUACCAUUAUUG	Clivagem
sly-miR8051-5p	Solyc09g059810.1.1	3.0	20.892	1	20	78	97	UAGUAUGGUAGAAAGAUUCA	UGAAUCUUUUCUACAUUAUUG	Tradução
sly-miR8051-5p	Solyc12g011120.1.1	3.0	17.033	1	20	825	844	UAGUAUGGUAGAAAGAUUCA	UGAAGCUUUUCUACAAUGCUA	Clivagem
sly-miR8051-5p	Solyc09g010830.2.1	3.0	17.931	1	20	902	921	UAGUAUGGUAGAAAGAUUCA	UGAAUCUUUUUAGCCAUGCUG	Tradução
sly-miR8051-5p	Solyc02g086830.2.1	3.0	11.907	1	20	1555	1574	UAGUAUGGUAGAAAGAUUCA	UAAAUUUUCUACUUAUUA	Clivagem
sly-miR8051-5p	Solyc03g007800.2.1	3.0	18.384	1	20	2264	2283	UAGUAUGGUAGAAAGAUUCA	UGGAACUUUCUCCCAUGCUGA	Tradução
sly-miR8172-5p	Solyc08g016070.1.1	2.5	19.481	1	20	513	532	AUGGAUCAUCUAGAUGGAGA	UUUUCUACUAGAUGCUCUCCAU	Clivagem
sly-miR8172-5p	Solyc01g100190.2.1	2.0	16.094	1	20	1481	1500	AUGGAUCAUCUAGAUGGAGA	UCUUCUACUAGGGGAUCCAU	Clivagem
sly-miR8172-5p	Solyc05g055090.2.1	3.0	17.278	1	21	2648	2668	AUGGAUCAUCUAGAUGGAGAU	AUCUUCGCUUGGAUGAUCCAU	Clivagem
sly-miR8172-5p	Solyc11g006420.1.1	2.5	17.9	1	20	963	982	AUGGAUCAUCUAGAUGGAGA	UCUCUACUGAAUGAUUCAU	Tradução
sly-miR8172-5p	Solyc01g109620.2.1	3.0	18.977	1	21	1088	1108	AUGGAUCAUCUAGAUGGAGAU	AUUUGGAUCUGGAUGAUCCAU	Clivagem
sly-miR8172-5p	Solyc12g094590.1.1	3.0	17.698	1	21	152	172	AUGGAUCAUCUAGAUGGAGAU	AUCUCCGUCGUGAUGAUUCAU	Tradução
sly-miR8172-5p	Solyc03g122070.1.1	3.0	18.964	1	20	1935	1954	AUGGAUCAUCUAGAUGGAGA	UUCCCAUCUGGAUGGUCUUAU	Clivagem
sly-miR8172-5p	Solyc02g068510.1.1	3.0	9.509	1	21	535	556	AUGGAUCAUCU-AGAUGGAGAU	AACUCCAUCUUAGAAGAUCCAU	Clivagem
sly-miR827-3p	Solyc03g063650.1.1	2.5	13.527	1	21	906	926	UUAGAUGAACAUCAACAAACA	UGUUUGUUGGUGUCCAUUUUAG	Clivagem
sly-miR827-3p	Solyc09g010110.2.1	3.0	18.473	1	21	285	305	UUAGAUGAACAUCAACAAACA	UGUUUGUUCUUCUUAUCUAA	Tradução
sly-miR827-3p	Solyc11g071210.1.1	3.0	10.896	1	20	15	34	UUAGAUGAACAUCAACAAAC	GUAUGUUGAUGAUCAUUUGA	Tradução
sly-miR827-3p	Solyc11g070130.1.1	3.0	16.905	1	20	15	34	UUAGAUGAACAUCAACAAAC	GUAUGUUGAUGAUCAUUUGA	Tradução
sly-miR827-3p	Solyc08g076550.1.1	3.0	15.739	1	20	360	379	UUAGAUGAACAUCAACAAAC	GCUUGUUGAGGUUCAUCUGG	Tradução
sly-miR827-3p	Solyc05g007920.2.1	3.0	12.852	1	20	717	736	UUAGAUGAACAUCAACAAAC	GUUGGUUGAUUUUUUUUAA	Tradução
sly-miR827-3p	Solyc08g076570.2.1	3.0	12.569	1	20	573	592	UUAGAUGAACAUCAACAAAC	GCUUGUUGAGGUUCAUCUGG	Tradução
sly-miR827-5p	Solyc07g039190.2.1	3.0	17.925	1	21	1633	1653	UUUGUUGAUGGUCAUCUAUUC	GAGUAGAUGAUCAUCAAGAA	Clivagem
sly-miR827-5p	Solyc08g080030.2.1	2.0	8.19	1	20	1008	1027	UUUGUUGAUGGUCAUCUAUU	AAUAGGGGAUCAUCAACAAA	Clivagem
sly-miR827-5p	Solyc05g007740.1.1	3.0	13.561	1	21	914	934	UUUGUUGAUGGUCAUCUAUUC	GAAUAGUUGGCCAUCAAGAAA	Clivagem
sly-miR827-5p	Solyc12g041890.1.1	3.0	18.942	1	20	981	1000	UUUGUUGAUGGUCAUCUAUU	GAUGGAUGAUUGUCAACGAA	Clivagem
sly-miR827-5p	Solyc05g051580.2.1	2.5	11.383	1	20	1609	1628	UUUGUUGAUGGUCAUCUAUU	AACAGAUGGUCAUCAACGAA	Clivagem
sly-miR827-5p	Solyc09g090100.2.1	2.5	13.093	1	20	2144	2163	UUUGUUGAUGGUCAUCUAUU	AACAGAUGACCGUCAGCAGA	Clivagem
sly-miR827-5p	Solyc08g006110.2.1	3.0	13.913	1	21	273	293	UUUGUUGAUGGUCAUCUAUUC	GAGGAAAUGAUCAUCAACAAA	Clivagem
sly-miR827-5p	Solyc11g068950.1.1	3.0	11.928	1	20	1725	1744	UUUGUUGAUGGUCAUCUAUU	AAUGGAUGAUGAUCAACAAU	Tradução
sly-miR827-5p	Solyc03g006160.1.1	2.5	8.715	1	20	174	193	UUUGUUGAUGGUCAUCUAUU	AAAUGAUGAUGAUCAACAAA	Clivagem
sly-miR827-5p	Solyc04g077260.2.1	3.0	13.358	1	20	753	772	UUUGUUGAUGGUCAUCUAUU	GAUAAAUAUUAUCAACAAA	Clivagem
sly-miR827-5p	Solyc10g084200.1.1	3.0	12.624	1	20	100	119	UUUGUUGAUGGUCAUCUAUU	ACUAGAUGUCCAUCAGCAGA	Clivagem
sly-miR827-5p	Solyc01g087060.2.1	3.0	19.361	1	20	1052	1071	UUUGUUGAUGGUCAUCUAUU	AAUGGCUGAGCAUCAACAAG	Tradução
sly-miR827-5p	Solyc05g021430.1.1	3.0	15.199	1	20	312	331	UUUGUUGAUGGUCAUCUAUU	AGGACAUGGCCAUCAACAAA	Clivagem

sly-miR827-5p	Solyc00g014960.1.1	2.5	16.555	1	20	603	621	UUUGUUGAUGGUCAUCUAUU	AAUAGAUG-CCAUCAACAAG	Clivagem
sly-miR827-5p	Solyc04g050010.1.1	3.0	10.629	1	20	409	427	UUUGUUGAUGGUCAUCUAUU	AAUA-AUGAUCAUACAAG	Clivagem
sly-miR827-5p	Solyc04g009710.1.1	3.0	10.443	1	19	43	62	UUUGUUGAUGGU-CAUCUAU	AAAGAUGCACCAUCAACAAA	Clivagem
sly-miR828a-5p	Solyc10g005550.1.1	3.0	17.18	1	22	328	349	UCUUGCUCAAAUGAGUAUUCCA	UGGAAUACUCAUUUGAAGAAGA	Clivagem
sly-miR828a-5p	Solyc08g082890.2.1	2.5	12.135	1	22	390	411	UCUUGCUCAAAUGAGUAUUCCA	UGGAAUACGCAUUUGACCAAGA	Clivagem
sly-miR828a-5p	Solyc02g077250.2.1	3.0	6.991	1	22	578	599	UCUUGCUCAAAUGAGUAUUCCA	UGCAAUUUUCAUUUGAUCAAGA	Clivagem
sly-miR828a-5p	Solyc12g010730.1.1	2.5	15.692	1	21	411	431	UCUUGCUCAAAUGAGUAUUCC	GGAAGGUUUUUUGAGCAAGA	Clivagem
sly-miR828a-5p	Solyc11g065630.1.1	3.0	16.684	1	22	164	185	UCUUGCUCAAAUGAGUAUUCCA	UAGAAUGUUUUUUUGAUCAAGA	Clivagem
sly-miR828a-5p	Solyc01g087730.2.1	2.5	18.664	1	20	1080	1099	UCUUGCUCAAAUGAGUAUUC	GAAUGCUUAAUUGAGCGAGA	Tradução
sly-miR828a-5p	Solyc02g093040.2.1	3.0	16.535	1	20	1051	1070	UCUUGCUCAAAUGAGUAUUC	GAAUGGUCAUUUGGGCAAGU	Clivagem
sly-miR9471a-3p	Solyc03g111100.1.1	3.0	23.561	1	21	512	532	UUGGCUGAGUGAGCAUCACGG	UUGUGAUGUUUCCUCAGCCAG	Tradução
sly-miR9471a-5p	Solyc12g009620.1.1	3.0	18.991	1	20	210	229	CAGGUGCUCACUCAGCUAAU	GUUGGUUGAGAGAGCACUUG	Tradução
sly-miR9471a-5p	Solyc03g114870.1.1	3.0	20.771	1	20	1283	1302	CAGGUGCUCACUCAGCUAAU	AUGAGCUGAGUGUGUAUCUG	Clivagem
sly-miR9471b-3p	Solyc09g061750.1.1	3.0	23.356	1	21	744	764	UUGGCUGAGUGAGCAUCACUG	CAGUGCUGUUCGCUCAGCCAU	Clivagem
sly-miR9471b-3p	Solyc08g082850.2.1	3.0	20.388	1	21	1124	1144	UUGGCUGAGUGAGCAUCACUG	CAUUGAUGCUUACUCGGCUGA	Clivagem
sly-miR9472-3p	Solyc01g080150.2.1	0.5	12.203	1	20	357	376	UUCACAAUCUCUGCUGAAAA	UUUUCAGCAGAGGUUGUGAA	Clivagem
sly-miR9472-3p	Solyc11g040080.1.1	1.5	15.381	1	20	89	108	UUCACAAUCUCUGCUGAAAA	AUUUCAGCAGGGAUUGUGAA	Clivagem
sly-miR9472-3p	Solyc05g007250.2.1	2.5	20.759	1	20	819	838	UUCACAAUCUCUGCUGAAAA	UUCUUAGCGGAGAUUGUGAG	Clivagem
sly-miR9472-3p	Solyc01g088270.2.1	3.0	23.058	1	20	252	271	UUCACAAUCUCUGCUGAAAA	UUUUCUGCAAAGAUUGUGGG	Tradução
sly-miR9472-3p	Solyc01g088260.2.1	3.0	24.076	1	20	80	99	UUCACAAUCUCUGCUGAAAA	UUUUCUGCAAAGAUUGUGGG	Tradução
sly-miR9472-3p	Solyc10g008600.2.1	3.0	20.002	1	20	357	376	UUCACAAUCUCUGCUGAAAA	UUUUCACUAGUGAUUGUGGA	Tradução
sly-miR9472-3p	Solyc09g010840.1.1	3.0	14.335	1	20	397	416	UUCACAAUCUCUGCUGAAAA	UUUGCAGAAAAGAUUGUGAA	Tradução
sly-miR9472-5p	Solyc02g085400.2.1	2.5	17.488	1	20	955	974	UUUCAGUAGACGUUGUGAAU	CUUCGCAACGUUUACUGGAA	Clivagem
sly-miR9472-5p	Solyc12g014530.1.1	3.0	14.48	1	21	64	84	UUUCAGUAGACGUUGUGAAUA	UAUUCACAAUGUCAAGUGAAA	Clivagem
sly-miR9472-5p	Solyc03g053100.2.1	2.5	12.844	1	20	1359	1379	UUUCAG-UAGACGUUGUGAAU	AUUCACAACGUCUACUGAAA	Clivagem
sly-miR9472-5p	Solyc08g076200.2.1	3.0	18.449	1	20	1143	1162	UUUCAGUAGACGUUGUGAAU	GUUUACAAUGUUUGCUGGAA	Clivagem
sly-miR9472-5p	Solyc07g006300.2.1	3.0	6.997	1	21	1516	1536	UUUCAGUAGACGUUGUGAAUA	UGUUAAUAUGUCUACUGAAA	Clivagem
sly-miR9472-5p	Solyc01g094570.2.1	3.0	13.945	1	21	423	444	UUUCAGUAGA-CGUUGUGAAUA	UGUUCAUAAUGGUCUACUGAAA	Tradução
sly-miR9472-5p	Solyc12g070180.1.1	2.5	13.833	1	20	903	922	UUUCAGUAGACGUUGUGAAU	AUUCACAACACCUACUGAAG	Tradução
sly-miR9472-5p	Solyc03g097990.2.1	2.5	20.213	1	20	195	214	UUUCAGUAGACGUUGUGAAU	AGUCACAUUGUCUACUGAAA	Clivagem
sly-miR9472-5p	Solyc12g006000.1.1	3.0	9.966	1	20	1941	1960	UUUCAGUAGACGUUGUGAAU	AUUUCCAACGUCUACUGACA	Clivagem
sly-miR9472-5p	Solyc02g069650.1.1	3.0	14.138	1	20	1014	1033	UUUCAGUAGACGUUGUGAAU	AUUUGUAACGGCUACUGAGA	Tradução
sly-miR9472-5p	Solyc06g069000.2.1	3.0	14.269	1	20	483	502	UUUCAGUAGACGUUGUGAAU	AUACUCAUUGUCUGCUGAAA	Clivagem
sly-miR9472-5p	Solyc01g080670.2.1	3.0	17.611	1	20	873	892	UUUCAGUAGACGUUGUGAAU	GUCCAAAACGUCUGCUGAAA	Clivagem
sly-miR9473.1-3p	Solyc04g082600.2.1	3.0	15.055	1	20	1610	1629	AAACGAGUUCAGAUUUACAG	UUGUAAUUUGAAUUUGUUG	Clivagem

sly-miR9473.1-3p	Solyc09g090650.2.1	3.0	18.31	1	20	150	169	AAACGAGUUCAGAUUUACAG	UUGUGAAUCUGAACUUUUUU	Clivagem
sly-miR9473.1-3p	Solyc08g074260.2.1	3.0	13.81	1	21	938	958	AAACGAGUUCAGAUUUACAGC	GCAGUAAUUCUGGACUUGUUU	Clivagem
sly-miR9473.1-3p	Solyc11g013880.1.1	3.0	18.153	1	20	578	597	AAACGAGUUCAGAUUUACAG	CUGUAAAUGUGAACUUGUCU	Clivagem
sly-miR9473.1-5p	Solyc04g015310.1.1	2.5	12.489	1	21	557	577	UGGCUGUAAAUCUAAACUCGU	AAGAGUUUAGAUUGACAGUCA	Clivagem
sly-miR9473.1-5p	Solyc12g035680.1.1	3.0	10.79	1	21	20	40	UGGCUGUAAAUCUAAACUCGU	AAGAGUUUAGAUUGGCAGUCA	Clivagem
sly-miR9473.1-5p	Solyc10g054680.1.1	3.0	12.627	1	21	695	715	UGGCUGUAAAUCUAAACUCGU	AAGAGUUUAGAUUGGCAGUCA	Clivagem
sly-miR9473.1-5p	Solyc08g041950.1.1	3.0	13.145	1	21	695	715	UGGCUGUAAAUCUAAACUCGU	AAGAGUUUAGAUUGACAGUCG	Clivagem
sly-miR9473.1-5p	Solyc03g026190.2.1	3.0	20.104	1	21	1716	1736	UGGCUGUAAAUCUAAACUCGU	AAGAGUUUGGAGUUACAGUCA	Tradução
sly-miR9473.1-5p	Solyc10g006330.2.1	3.0	12.908	1	20	898	917	UGGCUGUAAAUCUAAACUCG	GGAGUUGGGAUUUAUAGCCA	Clivagem
sly-miR9473.1-5p	Solyc04g080480.1.1	3.0	17.663	1	19	665	684	UGGCUGUAAAUC-UAAACUC	GAGCUUAUGAUUUACAGCCA	Clivagem
sly-miR9473.2-3p	Solyc07g062110.2.1	2.5	19.696	1	21	647	667	GCUGUAAAUCUGAACUCGUUU	GAAUGACUGCAGAUUUACAGC	Clivagem
sly-miR9473.2-3p	Solyc04g039910.1.1	3.0	13.184	1	20	253	272	GCUGUAAAUCUGAACUCGUU	AACGAUUUUAGAAUUGCAGC	Clivagem
sly-miR9473.2-3p	Solyc05g050970.2.1	3.0	24.349	1	20	2229	2248	GCUGUAAAUCUGAACUCGUU	AAGGAGUUUGGAAUUACAGC	Clivagem
sly-miR9473.2-5p	Solyc04g008280.2.1	3.0	16.591	1	20	885	904	ACGAGUUUAGAUUUACAGCC	UGUUGUAAGUCAAACUCGU	Tradução
sly-miR9473.2-5p	Solyc06g051790.2.1	3.0	18.333	1	20	665	684	ACGAGUUUAGAUUUACAGCC	GGGUGUGAAUUUGAACUUGU	Clivagem
sly-miR9473.2-5p	Solyc06g051780.2.1	3.0	18.888	1	20	1482	1501	ACGAGUUUAGAUUUACAGCC	GGGUGUGAAUUUGAACUUGU	Clivagem
sly-miR9473.2-5p	Solyc02g063040.2.1	3.0	11.25	1	20	395	414	ACGAGUUUAGAUUUACAGCC	GACUAUAAUUUAAGCUCGU	Clivagem
sly-miR9476.1-3p	Solyc04g058140.2.1	3.0	17.342	1	20	1612	1631	AAAAAGAUGCAGGACUAGAC	AUCUAGUCUUGUAUCUUUUU	Clivagem
sly-miR9476.1-3p	Solyc06g072830.2.1	3.0	11.419	1	20	194	213	AAAAAGAUGCAGGACUAGAC	CUCUGGUUUUGUAUCUUUUU	Clivagem
sly-miR9476.1-3p	Solyc01g090350.2.1	2.5	7.214	1	20	596	615	AAAAAGAUGCAGGACUAGAC	GUUUAAUUCUGCAUUUUUUU	Clivagem
sly-miR9476.1-3p	Solyc02g069370.2.1	3.0	17.221	1	20	245	264	AAAAAGAUGCAGGACUAGAC	GUCUAGUUCUGCGUUUUGUU	Clivagem
sly-miR9476.1-3p	Solyc07g025160.2.1	3.0	14.256	1	20	1772	1791	AAAAAGAUGCAGGACUAGAC	CUCUAGUUUUGCUUCUUUUU	Clivagem
sly-miR9476.1-5p	Solyc06g054540.2.1	2.5	18.173	1	21	273	293	UCUAGUCCUGCAUCUUUUUUU	AGGAGAAGAUUGCAGGAUUAGG	Clivagem
sly-miR9476.1-5p	Solyc05g006950.2.1	2.5	11.765	1	21	1643	1663	UCUAGUCCUGCAUCUUUUUUU	AAAGAAAGAUUGCAGGAUCAGA	Clivagem
sly-miR9476.1-5p	Solyc03g119730.2.1	2.5	13.871	1	21	1717	1737	UCUAGUCCUGCAUCUUUUUUU	AAAAAAGACGCAGGACUGGU	Clivagem
sly-miR9476.1-5p	Solyc09g031970.2.1	2.5	22.003	1	21	720	740	UCUAGUCCUGCAUCUUUUUUU	GGAAAAAGAUGCAGCACUAGG	Clivagem
sly-miR9476.1-5p	Solyc01g067360.2.1	3.0	14.321	1	21	162	182	UCUAGUCCUGCAUCUUUUUUU	AGGAGAAGAUGCAAGAUUAGA	Clivagem
sly-miR9476.1-5p	Solyc07g006650.2.1	2.5	18.811	1	21	330	350	UCUAGUCCUGCAUCUUUUUUU	GAGAAAAGAUAGAAGGAUUGGA	Tradução
sly-miR9476.1-5p	Solyc12g019080.1.1	3.0	24.613	1	21	1905	1925	UCUAGUCCUGCAUCUUUUUUU	AAAAGAAAGUGUAGGACUGGA	Clivagem
sly-miR9476.1-5p	Solyc01g111310.2.1	2.5	14.302	1	20	1552	1571	UCUAGUCCUGCAUCUUUUUUU	AAAAAAGAUGCAUGACUGGU	Clivagem
sly-miR9476.1-5p	Solyc02g065220.2.1	3.0	24.947	1	20	509	528	UCUAGUCCUGCAUCUUUUUUU	AAAAAAGAUGCAGGAGUUGA	Clivagem
sly-miR9476.1-5p	Solyc07g055270.1.1	3.0	17.784	1	21	566	586	UCUAGUCCUGCAUCUUUUUUU	AGAAAAAAGUGGAGGACUGGA	Tradução
sly-miR9476.1-5p	Solyc01g008490.2.1	3.0	17.401	1	21	1145	1165	UCUAGUCCUGCAUCUUUUUUU	AAAAAAGGACUAGGACUAGA	Tradução
sly-miR9476.1-5p	Solyc08g013730.2.1	3.0	15.164	1	21	1440	1460	UCUAGUCCUGCAUCUUUUUUU	AAUUAAGGUGGAGGACUAGG	Tradução
sly-miR9476.1-5p	Solyc11g065720.1.1	3.0	20.766	1	21	1587	1607	UCUAGUCCUGCAUCUUUUUUU	AGAAAAAGAGGGGGACUAGA	Tradução

sly-miR9476.1-5p	Solyc01g086890.2.1	3.0	17.839	1	21	1516	1536	UCUAGUCCUGCAUCUUUUUUU	GAGAGAAGGUGAAGGACUAGG	Tradução
sly-miR9476.1-5p	Solyc09g008600.2.1	3.0	14.814	1	21	2008	2028	UCUAGUCCUGCAUCUUUUUUU	AAGUGAAGAUCAUGACUAGA	Clivagem
sly-miR9476.1-5p	Solyc06g082930.2.1	3.0	8.713	1	21	32	52	UCUAGUCCUGCAUCUUUUUUU	AAGAAAAGUUGAAGGAUUAGA	Tradução
sly-miR9476.1-5p	Solyc12g096660.1.1	3.0	23.919	1	21	1812	1832	UCUAGUCCUGCAUCUUUUUUU	AAAAGAAACUGUAGGACUAGA	Clivagem
sly-miR9476.1-5p	Solyc06g050580.1.1	3.0	17.149	1	20	539	558	UCUAGUCCUGCAUCUUUUUUU	UGAAAAGAUCAUGGACUAGA	Tradução
sly-miR9476.1-5p	Solyc05g023710.2.1	3.0	20.926	1	20	583	602	UCUAGUCCUGCAUCUUUUUUU	AAGAAAGAAGCAGUACUAGA	Clivagem
sly-miR9476.1-5p	Solyc11g069230.1.1	3.0	11.438	1	21	519	539	UCUAGUCCUGCAUCUUUUUUU	GAAACAGGAUGAAGGAUUAGA	Tradução
sly-miR9476.1-5p	Solyc10g085370.1.1	3.0	9.957	1	21	1173	1193	UCUAGUCCUGCAUCUUUUUUU	AAAAACAGAUGAUGGACUAGA	Tradução
sly-miR9476.2-3p	Solyc04g058140.2.1	3.0	17.342	1	20	1612	1631	AAAAAGAUGCAGGACUAGAC	AUCUAGUCUUGUAUCUUUUC	Clivagem
sly-miR9476.2-3p	Solyc06g072830.2.1	3.0	11.419	1	20	194	213	AAAAAGAUGCAGGACUAGAC	CUCUGGUUUUGUAUCUUUUU	Clivagem
sly-miR9476.2-3p	Solyc01g090350.2.1	2.5	7.214	1	20	596	615	AAAAAGAUGCAGGACUAGAC	GUUUAAUUCUGCAUUUUUUU	Clivagem
sly-miR9476.2-3p	Solyc02g069370.2.1	3.0	17.221	1	20	245	264	AAAAAGAUGCAGGACUAGAC	GUCUAGUUCUGCGUUUUGUU	Clivagem
sly-miR9476.2-3p	Solyc07g025160.2.1	3.0	14.256	1	20	1772	1791	AAAAAGAUGCAGGACUAGAC	CUCUAGUUUUGCUUUUUUU	Clivagem
sly-miR9476.2-5p	Solyc06g054540.2.1	2.5	18.173	1	21	273	293	UCUAGUCCUGCAUCUUUUUUU	AGGAGAAGAUCAUGGAUUAGG	Clivagem
sly-miR9476.2-5p	Solyc05g006950.2.1	2.5	11.765	1	21	1643	1663	UCUAGUCCUGCAUCUUUUUUU	AAAGAAAGAUCAUGGACUAGA	Clivagem
sly-miR9476.2-5p	Solyc03g119730.2.1	2.5	13.871	1	21	1717	1737	UCUAGUCCUGCAUCUUUUUUU	AAAAAAGACGCAGGACUGGU	Clivagem
sly-miR9476.2-5p	Solyc09g031970.2.1	2.5	22.003	1	21	720	740	UCUAGUCCUGCAUCUUUUUUU	GGAAAAAGAUCAUGCAGCUAGG	Clivagem
sly-miR9476.2-5p	Solyc01g067360.2.1	3.0	14.321	1	21	162	182	UCUAGUCCUGCAUCUUUUUUU	AGGAGAAGAUCAAGAUUUAGA	Clivagem
sly-miR9476.2-5p	Solyc07g006650.2.1	2.5	18.811	1	21	330	350	UCUAGUCCUGCAUCUUUUUUU	GAGAAAAGAUCAAGGAUUGGA	Tradução
sly-miR9476.2-5p	Solyc12g019080.1.1	3.0	24.613	1	21	1905	1925	UCUAGUCCUGCAUCUUUUUUU	AAAAGAAAGUGUAGGACUGGA	Clivagem
sly-miR9476.2-5p	Solyc01g111310.2.1	2.5	14.302	1	20	1552	1571	UCUAGUCCUGCAUCUUUUUUU	AAAAAAGAUCAUGACUGGU	Clivagem
sly-miR9476.2-5p	Solyc02g065220.2.1	3.0	24.947	1	20	509	528	UCUAGUCCUGCAUCUUUUUUU	AAAAAAGAUCAUGGAGUUGA	Clivagem
sly-miR9476.2-5p	Solyc07g055270.1.1	3.0	17.784	1	21	566	586	UCUAGUCCUGCAUCUUUUUUU	AGAAAAAAUGGAGGACUGGA	Tradução
sly-miR9476.2-5p	Solyc01g008490.2.1	3.0	17.401	1	21	1145	1165	UCUAGUCCUGCAUCUUUUUUU	AAAAAAGGACUAGGACUAGA	Tradução
sly-miR9476.2-5p	Solyc08g013730.2.1	3.0	15.164	1	21	1440	1460	UCUAGUCCUGCAUCUUUUUUU	AAUAAAGGUGGAGGACUAGG	Tradução
sly-miR9476.2-5p	Solyc11g065720.1.1	3.0	20.766	1	21	1587	1607	UCUAGUCCUGCAUCUUUUUUU	AGAAAAAGAAGGGGGACUAGA	Tradução
sly-miR9476.2-5p	Solyc01g086890.2.1	3.0	17.839	1	21	1516	1536	UCUAGUCCUGCAUCUUUUUUU	GAGAGAAGGUGAAGGACUAGG	Tradução
sly-miR9476.2-5p	Solyc09g008600.2.1	3.0	14.814	1	21	2008	2028	UCUAGUCCUGCAUCUUUUUUU	AAGUGAAGAUCAUGACUAGA	Clivagem
sly-miR9476.2-5p	Solyc06g082930.2.1	3.0	8.713	1	21	32	52	UCUAGUCCUGCAUCUUUUUUU	AAGAAAAGUUGAAGGAUUAGA	Tradução
sly-miR9476.2-5p	Solyc12g096660.1.1	3.0	23.919	1	21	1812	1832	UCUAGUCCUGCAUCUUUUUUU	AAAAGAAACUGUAGGACUAGA	Clivagem
sly-miR9476.2-5p	Solyc06g050580.1.1	3.0	17.149	1	20	539	558	UCUAGUCCUGCAUCUUUUUUU	UGAAAAGAUCAUGGACUAGA	Tradução
sly-miR9476.2-5p	Solyc05g023710.2.1	3.0	20.926	1	20	583	602	UCUAGUCCUGCAUCUUUUUUU	AAGAAAGAAGCAGUACUAGA	Clivagem
sly-miR9476.2-5p	Solyc11g069230.1.1	3.0	11.438	1	21	519	539	UCUAGUCCUGCAUCUUUUUUU	GAAACAGGAUGAAGGAUUAGA	Tradução
sly-miR9476.2-5p	Solyc10g085370.1.1	3.0	9.957	1	21	1173	1193	UCUAGUCCUGCAUCUUUUUUU	AAAAACAGAUGAUGGACUAGA	Tradução
sly-miR9478-3p	Solyc04g076290.2.1	2.0	8.382	1	20	1734	1753	UUCGAUGACAUUUUGAGCC	AACUCAAAUAUGUCAUCGAA	Clivagem

sly-miR9478-3p	Solyc01g007890.1.1	2.5	13.424	1	21	414	434	UUCGAUGACAUAUUUGAGCCU	AGGUUCAAUAUUUCAUCGAA	Tradução
sly-miR9478-3p	Solyc01g006620.2.1	3.0	23.629	1	20	1749	1768	UUCGAUGACAUAUUUGAGCC	UGAUCAAUAUGUCAUUGGA	Clivagem
sly-miR9478-5p	Solyc01g008250.2.1	3.0	15.596	1	20	902	921	GCUUAAAUAUGUAGAUCGAA	UUGGAUUUGUAUUAUUUGAGC	Clivagem
sly-miR9478-5p	Solyc05g007970.2.1	3.0	16.649	1	20	448	467	GCUUAAAUAUGUAGAUCGAA	AUCAUUGUACAUAUUUAAGC	Clivagem

Tabela S12 – Caracterização dos genes alvos dos miRNAs identificados em *S. pennellii* usando psRNAtarget.

miRNA maduro	Gene alvo	Exp	UPE	Início do miRNA	Fim do miRNA	Início do alvo	Fim do alvo	Fragmento do miRNA alinhado	Fragmento do alvo alinhado	Inibição por/da
spe-miR1128-5p	Sopen08g030810.1	2.5	14.09	1	21	176	196	UACUACUCCCUCCGUCCCAA	UUUUGAACGGAGGGAGUAGUG	Clivagem
spe-miR1128-5p	Sopen11g016530.3	3.0	21.804	1	20	3689	3708	UACUACUCCCUCCGUCCCAA	GUGGGACAGAGGGAGUAGUU	Clivagem
spe-miR1128-5p	Sopen11g016530.2	3.0	21.804	1	20	3689	3708	UACUACUCCCUCCGUCCCAA	GUGGGACAGAGGGAGUAGUU	Clivagem
spe-miR1128-5p	Sopen10g011020.1	3.0	18.043	1	20	1074	1093	UACUACUCCCUCCGUCCCAA	UUGGGAUGGUGGAGGUAGUA	Tradução
spe-miR1128-5p	Sopen11g015010.1	3.0	22.993	1	20	1437	1456	UACUACUCCCUCCGUCCCAA	UAGGGAUGGAGGAGGUAGUA	Clivagem
spe-miR1128-5p	Sopen12g008790.1	3.0	17.834	1	20	606	625	UACUACUCCCUCCGUCCCAA	UGGGGAUGGAGGAGGUAGUA	Clivagem
spe-miR1128-5p	Sopen07g016650.1	3.0	22.608	1	20	582	601	UACUACUCCCUCCGUCCCAA	UUGGGAUGGUGGAGGUAGUA	Tradução
spe-miR1128-5p	Sopen07g008030.2	3.0	21.082	1	20	1074	1093	UACUACUCCCUCCGUCCCAA	UUGGGAUGGUGGAGGUAGUA	Tradução
spe-miR1128-5p	Sopen01g014050.1	3.0	17.678	1	20	1695	1714	UACUACUCCCUCCGUCCCAA	UAGGGAUGGAGGAGGUAGUA	Clivagem
spe-miR1128-5p	Sopen07g008030.1	3.0	21.082	1	20	1074	1093	UACUACUCCCUCCGUCCCAA	UUGGGAUGGUGGAGGUAGUA	Tradução
spe-miR1128-5p	Sopen06g001550.1	3.0	19.978	1	20	1035	1054	UACUACUCCCUCCGUCCCAA	UUGGGAUGGAGGGAGUAGUG	Clivagem
spe-miR1128-5p	Sopen06g001550.2	3.0	19.978	1	20	1035	1054	UACUACUCCCUCCGUCCCAA	UUGGGAUGGAGGGAGUAGUG	Clivagem
spe-miR1128-5p	Sopen10g014830.1	3.0	21.471	1	20	747	766	UACUACUCCCUCCGUCCCAA	UUGGGAUGGUGGAGGUAGUA	Tradução
spe-miR1446-5p	Sopen03g030140.1	2.5	18.981	1	22	789	810	UGAACUCUCUCCCUCAAUGGCU	AGCCUUUGAGGGAGAGAGUUUC	Clivagem
spe-miR1446-5p	Sopen00g005310.1	2.0	18.54	1	22	2169	2190	UGAACUCUCUCCCUCAAUGGCU	ACCCAUUGAGGGAGAGGGUUUU	Clivagem
spe-miR1446-5p	Sopen08g003520.1	2.5	14.778	1	22	292	313	UGAACUCUCUCCCUCAAUGGCU	AGCCAUAGAGAGGGAGAGUUCA	Clivagem
spe-miR1446-5p	Sopen05g016560.1	2.5	18.036	1	22	1980	2001	UGAACUCUCUCCCUCAAUGGCU	ACCCGUUGAGGGAGAGGGUUUU	Clivagem
spe-miR1446-5p	Sopen10g035270.1	3.0	17.57	1	22	1374	1395	UGAACUCUCUCCCUCAAUGGCU	GGCUAUGGAGGAAGAGGGUUCA	Tradução
spe-miR1446-5p	Sopen04g009650.1	3.0	23.601	1	20	2399	2418	UGAACUCUCUCCCUCAAUGG	CCAUUGAGGGAGAGGGUGCU	Clivagem
spe-miR1446-5p	Sopen06g028960.1	3.0	19.297	1	20	928	947	UGAACUCUCUCCCUCAAUGG	AGAUUCAGGGAGAGAGUUCA	Clivagem
spe-miR1446-5p	Sopen00g013010.1	3.0	17.387	1	22	1780	1801	UGAACUCUCUCCCUCAAUGGCU	ACCCAUUGAGGGAGAGGGUUUU	Clivagem
spe-miR1446-5p	Sopen12g025890.1	3.0	23.256	1	20	275	294	UGAACUCUCUCCCUCAAUGG	CGAUUGAGGGAGAGGGUUUC	Clivagem
spe-miR1446-5p	Sopen03g011210.1	3.0	24.322	1	20	4151	4170	UGAACUCUCUCCCUCAAUGG	CCGUUGAUGGAGAGGGUUC	Clivagem
spe-miR1446-5p	Sopen10g013910.1	2.5	19.387	1	20	7	26	UGAACUCUCUCCCUCAAUGG	CCAUUAGUGGAGAGAGUUCA	Clivagem

spe-miR1446-5p	Sopen05g017840.1	3.0	17.304	1	20	251	270	UGAACUCUCUCCCUCAAUGG	CUAUUGAAGUGGAGAGUUCA	Tradução
spe-miR1446-5p	Sopen05g017790.1	3.0	19.937	1	20	1706	1725	UGAACUCUCUCCCUCAAUGG	CUAUUGAAGUGGAGAGUUCA	Tradução
spe-miR1446-5p	Sopen10g010800.2	3.0	17.743	1	22	3824	3845	UGAACUCUCUCCCUCAAUGGCU	AACAAUGGAAGGAGAGAGUUCA	Clivagem
spe-miR1446a-5p	Sopen06g028960.1	1.5	21.086	1	20	931	950	UUCUGAACUCUCUCCCUCAA	UUCAGGGAGAGAGUUCAGAG	Clivagem
spe-miR1446a-5p	Sopen04g014740.1	3.0	23.472	1	20	239	258	UUCUGAACUCUCUCCCUCAA	UUGAGGGAAAGAGUUUGGAU	Clivagem
spe-miR1446a-5p	Sopen12g016490.1	3.0	14.314	1	20	20	39	UUCUGAACUCUCUCCCUCAA	AUGAGGGAGAGAAUUUGGAA	Clivagem
spe-miR1446a-5p	Sopen09g021610.1	3.0	23.047	1	20	2039	2058	UUCUGAACUCUCUCCCUCAA	UUGAUGGAGAGGGUUCGGAA	Clivagem
spe-miR1446a-5p	Sopen05g018560.1	2.5	14.51	1	20	2001	2020	UUCUGAACUCUCUCCCUCAA	UGGAGGGAAAGGUUCAGAA	Clivagem
spe-miR1446a-5p	Sopen06g008160.1	2.5	23.522	1	20	3514	3533	UUCUGAACUCUCUCCCUCAA	UUGAAGGAGGAAGUUCAGAA	Tradução
spe-miR1446a-5p	Sopen07g010080.1	3.0	24.936	1	20	4787	4806	UUCUGAACUCUCUCCCUCAA	AUGAGGUUGAGAGUUCAGAA	Clivagem
spe-miR1446a-5p	Sopen10g006700.1	3.0	22.724	1	20	1774	1793	UUCUGAACUCUCUCCCUCAA	UUGAAGGAGGAAGUUCGGAA	Tradução
spe-miR1446a-5p	Sopen07g009410.1	3.0	22.742	1	20	2516	2535	UUCUGAACUCUCUCCCUCAA	UUGAAGGAGGAAGUUCGGAA	Tradução
spe-miR1446a-5p	Sopen10g020620.1	3.0	24.755	1	20	1939	1958	UUCUGAACUCUCUCCCUCAA	UUGAAGGAGGAAGUUCGGAA	Tradução
spe-miR1446a-5p	Sopen06g005480.1	3.0	23.314	1	20	1903	1922	UUCUGAACUCUCUCCCUCAA	UUGAAGGAGGAAGUUCGGAA	Tradução
spe-miR1446a-5p	Sopen10g016840.1	3.0	14.737	1	20	1398	1417	UUCUGAACUCUCUCCCUCAA	UGGAGGGAGAGUAUUCAGAA	Tradução
spe-miR1446a-5p	Sopen03g020470.1	3.0	21.654	1	20	2333	2352	UUCUGAACUCUCUCCCUCAA	UUGAGGAUGAGAAUUCAGAA	Clivagem
spe-miR156-10-3p	Sopen11g017850.1	1.5	23.005	1	22	696	717	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUGGAGCAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen05g032860.1	2.5	17.384	1	21	537	557	GCUCACUGCUCUAUCUGUCACC	GAGACAGGUAGAGCGGUGGGC	Clivagem
spe-miR156-10-3p	Sopen01g018450.1	2.0	20.795	1	22	726	747	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen05g021610.1	2.0	19.273	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUAGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen07g007550.1	2.0	17.663	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen12g012420.1	2.0	13.565	1	20	110	129	GCUCACUGCUCUAUCUGUCA	UGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen03g011830.1	2.0	13.593	1	20	116	135	GCUCACUGCUCUAUCUGUCA	UGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen05g016080.1	2.5	19.816	1	20	116	135	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGUAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen01g009890.1	2.5	21.589	1	22	111	132	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen02g005260.1	2.5	17.576	1	22	1896	1917	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen01g026210.1	2.5	15.635	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUAGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen04g014930.1	2.5	21.614	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUAGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen04g018070.1	2.5	17.245	1	22	27	48	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen11g015420.1	2.5	21.216	1	22	498	519	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen10g007760.1	2.5	16.709	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen05g012810.1	2.5	17.228	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGAUAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen10g015900.1	2.5	17.964	1	22	21	42	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen01g019370.1	2.5	12.207	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen03g017480.1	2.5	19.582	1	22	192	213	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem

spe-miR156-10-3p	Sopen07g021080.1	2.5	19.827	1	22	150	171	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen10g018420.1	2.5	17.197	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen04g016790.1	2.5	23.924	1	22	243	264	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUAGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen09g013220.1	2.5	20.453	1	20	1124	1143	GCUCACUGCUCUAUCUGUCA	UGACGGAUAGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen06g010360.1	2.5	18.725	1	20	98	117	GCUCACUGCUCUAUCUGUCA	UGACAGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen12g014150.1	3.0	19.494	1	22	735	756	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen10g026080.1	3.0	18.553	1	22	1650	1671	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen01g022420.1	3.0	24.047	1	22	102	123	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen07g010090.1	3.0	18.277	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen12g011820.1	3.0	20.389	1	22	48	69	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen04g019970.1	3.0	19.938	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen02g001170.1	3.0	20.828	1	22	1188	1209	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen01g017270.1	3.0	22.236	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen03g020600.1	3.0	24.232	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen09g017650.1	3.0	19.41	1	22	219	240	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen03g019520.1	3.0	15.474	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGGAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-10-3p	Sopen03g016380.1	3.0	21.313	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen07g018880.1	3.0	16.413	1	20	4949	4968	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen04g013680.1	3.0	21.133	1	20	113	132	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen04g014110.1	3.0	14.701	1	20	116	135	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen09g020350.1	3.0	22.222	1	22	108	129	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUCAGC	Clivagem
spe-miR156-10-3p	Sopen03g012430.1	3.0	17.997	1	20	440	459	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen07g013370.1	3.0	23.653	1	20	755	774	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen05g013320.1	3.0	19.059	1	20	116	135	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen12g013480.1	3.0	19.39	1	20	116	135	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-10-3p	Sopen09g008870.1	3.0	13.117	1	20	2157	2176	GCUCACUGCUCUAUCUGUCA	UGAUAGAUUAGCAGAGAGC	Tradução
spe-miR156-10-3p	Sopen05g023590.1	3.0	23.767	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGAAAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-10-5p	Sopen05g006830.1	1.0	10.935	1	21	1240	1260	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-10-5p	Sopen12g018830.1	1.0	13.536	1	21	970	990	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-10-5p	Sopen05g010900.1	1.0	17.999	1	20	1118	1137	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-10-5p	Sopen10g029320.1	1.0	20.437	1	20	764	783	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-10-5p	Sopen04g017460.1	1.0	17.486	1	20	791	810	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-10-5p	Sopen05g011450.1	1.0	16.959	1	20	656	675	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-10-5p	Sopen03g033930.1	2.0	15.3	1	20	1157	1176	UGACAGAAGAGAGUGAGCAC	AUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-10-5p	Sopen04g012860.1	3.0	19.779	1	21	275	295	UGACAGAAGAGAGUGAGCACA	UGGGCUUAUUUCUUCUGUUA	Clivagem

spe-miR156-10-5p	Sopen09g017280.1	3.0	7.793	1	21	1851	1871	UGACAGAAGAGAGUGAGCACA	UUUGCUCACUUUCAUUUGUCA	Clivagem
spe-miR156-10-5p	Sopen03g028420.1	3.0	11.697	1	20	3311	3330	UGACAGAAGAGAGUGAGCAC	GUGCUCAUUCUUUCUCUCA	Tradução
spe-miR156-10-5p	Sopen09g035820.2	3.0	14.923	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUCUUCUGUUA	Clivagem
spe-miR156-10-5p	Sopen09g035820.1	3.0	14.923	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUCUUCUGUUA	Clivagem
spe-miR156-11-3p	Sopen04g032730.1	2.5	14.91	1	22	1264	1285	GCUCACUGCUCUAUCUUUCAUC	GAUGGAAGAUACAGUAGUGAGU	Tradução
spe-miR156-11-3p	Sopen05g023590.1	2.0	23.767	1	22	114	135	GCUCACUGCUCUAUCUUUCAUC	GUUGAAAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-11-3p	Sopen11g017850.1	2.5	23.005	1	22	696	717	GCUCACUGCUCUAUCUUUCAUC	GUUGACAGAUAGGAGCAGUGAGG	Clivagem
spe-miR156-11-3p	Sopen12g013380.1	3.0	12.093	1	21	607	627	GCUCACUGCUCUAUCUUUCAU	AUUGAAGGUAGGGUAGUGAGC	Clivagem
spe-miR156-11-3p	Sopen04g026710.1	3.0	19.469	1	21	2887	2907	GCUCACUGCUCUAUCUUUCAU	AUGAAAGAGAGAGGAGUGAGG	Clivagem
spe-miR156-11-3p	Sopen08g007070.1	3.0	20.427	1	22	1764	1785	GCUCACUGCUCUAUCUUUCAUC	GUUGAAGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-11-3p	Sopen08g025660.1	3.0	13.423	1	21	1339	1359	GCUCACUGCUCUAUCUUUCAU	AUAAGAGAUAAAGCAGUGAGU	Tradução
spe-miR156-11-3p	Sopen04g021510.1	3.0	5.683	1	21	16	36	GCUCACUGCUCUAUCUUUCAU	GUGAAAGAAAGAGAAGUGAGA	Clivagem
spe-miR156-11-3p	Sopen01g018450.1	3.0	20.795	1	22	726	747	GCUCACUGCUCUAUCUUUCAUC	GUUGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-11-3p	Sopen05g021610.1	3.0	19.273	1	22	114	135	GCUCACUGCUCUAUCUUUCAUC	GUUGACAGAUAGAGAAGUGAGA	Clivagem
spe-miR156-11-3p	Sopen05g012810.1	3.0	17.228	1	22	114	135	GCUCACUGCUCUAUCUUUCAUC	GUUGAUAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-11-3p	Sopen07g007550.1	3.0	17.663	1	22	114	135	GCUCACUGCUCUAUCUUUCAUC	GUUGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-11-3p	Sopen09g034960.1	3.0	4.944	1	21	589	609	GCUCACUGCUCUAUCUUUCAU	GUGGAAGAAGAAGCAGUGAGC	Tradução
spe-miR156-11-3p	Sopen10g022180.1	3.0	17.358	1	21	19	39	GCUCACUGCUCUAUCUUUCAU	GUGAAUGAUGGAACAGUGAGU	Tradução
spe-miR156-11-3p	Sopen12g012420.1	3.0	13.565	1	20	110	129	GCUCACUGCUCUAUCUUUCA	UGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-11-3p	Sopen03g011830.1	3.0	13.593	1	20	116	135	GCUCACUGCUCUAUCUUUCA	UGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-11-3p	Sopen03g006380.1	3.0	17.375	1	22	64	85	GCUCACUGCUCUAUCUUUCAUC	GUUGAAAUGAAGAGCGGUGAGC	Clivagem
spe-miR156-11-3p	Sopen03g001040.1	3.0	18.762	1	21	350	370	GCUCACUGCUCUAUCUUUCAU	GUGAAAGCUUGAGAAGUGAGC	Clivagem
spe-miR156-11-5p	Sopen05g006830.1	2.5	10.935	1	21	1240	1260	UGACAGAAGGGCGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-11-5p	Sopen12g018830.1	2.5	13.536	1	21	970	990	UGACAGAAGGGCGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-11-5p	Sopen01g050530.1	3.0	15.829	1	20	500	519	UGACAGAAGGGCGUGAGCAC	UUGCUCUAGCCUCCUGUCA	Clivagem
spe-miR156-11-5p	Sopen11g018340.1	3.0	21.723	1	20	812	831	UGACAGAAGGGCGUGAGCAC	GUGCUCAUGUUCUUAUGUCA	Clivagem
spe-miR156-11-5p	Sopen12g013740.1	3.0	16.141	1	21	96	116	UGACAGAAGGGCGUGAGCACA	UAUGCUCUAGCCUUUUUGUCA	Clivagem
spe-miR156-11-5p	Sopen11g017950.1	3.0	22.18	1	20	653	672	UGACAGAAGGGCGUGAGCAC	CUGUUCAAGCCUUUUUGUCA	Clivagem
spe-miR156-11-5p	Sopen03g028420.1	3.0	11.697	1	20	3311	3330	UGACAGAAGGGCGUGAGCAC	GUGCUCAUUCUUUCUCUCA	Clivagem
spe-miR156-11-5p	Sopen05g010900.1	2.5	17.999	1	20	1118	1137	UGACAGAAGGGCGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-11-5p	Sopen10g029320.1	2.5	20.437	1	20	764	783	UGACAGAAGGGCGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-11-5p	Sopen04g017460.1	2.5	17.486	1	20	791	810	UGACAGAAGGGCGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-11-5p	Sopen05g011450.1	2.5	16.959	1	20	656	675	UGACAGAAGGGCGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-12-3p	Sopen03g020680.1	2.0	21.226	1	22	27	48	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAAGGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen01g017900.1	2.5	21.978	1	22	114	135	GCUCACUUCUCAUUCUGUCAGC	GUUGACGGAAGGAGAAGUGAGA	Clivagem

spe-miR156-12-3p	Sopen01g049520.1	2.5	19.943	1	21	161	181	GCUCACUUCUCAUUCUGUCAG	CUGACAGAUUGGGAAGUGAGA	Clivagem
spe-miR156-12-3p	Sopen10g018420.1	3.0	17.197	1	22	114	135	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen07g021080.1	3.0	19.827	1	22	150	171	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen03g017480.1	3.0	19.582	1	22	192	213	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen01g019370.1	3.0	12.207	1	22	114	135	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen07g007550.1	3.0	17.663	1	22	114	135	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen10g015900.1	3.0	17.964	1	22	21	42	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen10g007760.1	3.0	16.709	1	22	114	135	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen11g015420.1	3.0	21.216	1	22	498	519	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen05g021610.1	3.0	19.273	1	22	114	135	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUAGAGAAGUGAGA	Clivagem
spe-miR156-12-3p	Sopen04g018070.1	3.0	17.245	1	22	27	48	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen01g018450.1	3.0	20.795	1	22	726	747	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen02g005380.1	3.0	21.663	1	22	156	177	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUUGUGAAGUGAGG	Tradução
spe-miR156-12-3p	Sopen02g005260.1	3.0	17.576	1	22	1896	1917	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen01g009890.1	3.0	21.589	1	22	111	132	GCUCACUUCUCAUUCUGUCAGC	GUUGACAGAUUGGAGAAGUGAGA	Clivagem
spe-miR156-12-3p	Sopen09g012740.1	3.0	16.105	1	20	2589	2608	GCUCACUUCUCAUUCUGUCA	UGGUGGGAUGGGAAGUGGGC	Clivagem
spe-miR156-12-3p	Sopen08g008190.1	3.0	18.808	1	21	20	40	GCUCACUUCUCAUUCUGUCAG	UUGAAAGAAUGGGAAGAGAGC	Clivagem
spe-miR156-12-3p	Sopen06g010360.1	3.0	18.725	1	21	97	117	GCUCACUUCUCAUUCUGUCAG	UUGACAGAUUGGAGAAGUGAGA	Clivagem
spe-miR156-12-3p	Sopen03g011830.1	3.0	13.593	1	21	115	135	GCUCACUUCUCAUUCUGUCAG	UUGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen12g012420.1	3.0	13.565	1	21	109	129	GCUCACUUCUCAUUCUGUCAG	UUGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-12-3p	Sopen04g021510.1	3.0	5.683	1	20	17	36	GCUCACUUCUCAUUCUGUCA	UGAAAGAAAGAGAAGUGAGA	Clivagem
spe-miR156-12-3p	Sopen03g001040.1	3.0	18.762	1	20	351	370	GCUCACUUCUCAUUCUGUCA	UGAAAGCUUGAGAAGUGAGC	Clivagem
spe-miR156-12-5p	Sopen05g006830.1	1.0	10.935	1	21	1240	1260	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-12-5p	Sopen12g018830.1	1.0	13.536	1	21	970	990	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-12-5p	Sopen05g010900.1	1.0	17.999	1	20	1118	1137	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-12-5p	Sopen10g029320.1	1.0	20.437	1	20	764	783	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-12-5p	Sopen04g017460.1	1.0	17.486	1	20	791	810	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-12-5p	Sopen05g011450.1	1.0	16.959	1	20	656	675	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-12-5p	Sopen03g033930.1	2.0	15.3	1	20	1157	1176	UGACAGAAGAGAGUGAGCAC	AUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-12-5p	Sopen04g012860.1	3.0	19.779	1	21	275	295	UGACAGAAGAGAGUGAGCACA	UGGGCUUUAUUUCUUCUGUUA	Clivagem
spe-miR156-12-5p	Sopen09g017280.1	3.0	7.793	1	21	1851	1871	UGACAGAAGAGAGUGAGCACA	UUUGCUCACUUCUUCUUCUGUCA	Clivagem
spe-miR156-12-5p	Sopen03g028420.1	3.0	11.697	1	20	3311	3330	UGACAGAAGAGAGUGAGCAC	GUGCUCUUCUUCUUCUCUCA	Tradução
spe-miR156-12-5p	Sopen09g035820.2	3.0	14.923	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUCUUCUGUUA	Clivagem
spe-miR156-12-5p	Sopen09g035820.1	3.0	14.923	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUCUUCUGUUA	Clivagem
spe-miR156-1-3p	Sopen07g005330.1	2.5	12.452	1	21	922	942	GCUCUCUAUGCUUCCGUCAUC	GCUGAUGGAAGUAUAGAGAGU	Clivagem

spe-miR156-1-3p	Sopen11g005950.1	3.0	11.308	1	21	460	480	GCUCUCUAUGCUUCCGUCAUC	GCUGAUGGAAGUAUAGAGAGA	Clivagem
spe-miR156-1-3p	Sopen10g016840.1	3.0	20.426	1	21	2263	2283	GCUCUCUAUGCUUCCGUCAUC	GCUGAUGGGAGCAUAGAGAGG	Clivagem
spe-miR156-1-3p	Sopen01g009030.1	3.0	19.458	1	20	446	465	GCUCUCUAUGCUUCCGUCAU	AUGAUGGAAGUGUGGAGAGA	Clivagem
spe-miR156-1-3p	Sopen05g031160.2	3.0	17.965	1	21	460	480	GCUCUCUAUGCUUCCGUCAUC	GAUGACGGCAGCACAGAGAGA	Clivagem
spe-miR156-1-3p	Sopen08g014040.1	3.0	14.398	1	20	690	709	GCUCUCUAUGCUUCCGUCAU	AUGGUGGAAGCAUAAAGAGU	Clivagem
spe-miR156-1-5p	Sopen05g010900.1	1.0	19.373	1	21	1118	1138	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
spe-miR156-1-5p	Sopen10g029320.1	1.0	18.612	1	21	764	784	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
spe-miR156-1-5p	Sopen04g017460.1	1.0	15.743	1	21	791	811	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
spe-miR156-1-5p	Sopen05g006830.1	1.5	10.69	1	21	1241	1261	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAG	Clivagem
spe-miR156-1-5p	Sopen12g018830.1	2.0	12.728	1	21	971	991	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-1-5p	Sopen05g011450.1	2.0	17.142	1	21	656	676	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-1-5p	Sopen02g019370.1	2.0	23.937	1	20	368	387	UUGACAGAAGAUAGAGAGCA	UGCUCUCUGUCUUCUGUUAC	Clivagem
spe-miR156-1-5p	Sopen03g033930.1	2.0	14.993	1	20	1158	1177	UUGACAGAAGAUAGAGAGCA	UGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-1-5p	Sopen11g001610.2	2.5	9.772	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUAA	Clivagem
spe-miR156-1-5p	Sopen11g001610.1	2.5	9.772	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUAA	Clivagem
spe-miR156-1-5p	Sopen01g049090.1	2.5	18.859	1	20	496	515	UUGACAGAAGAUAGAGAGCA	GGCUCUUAUCUUCUGUCAA	Clivagem
spe-miR156-1-5p	Sopen09g026080.1	3.0	9.383	1	21	18	38	UUGACAGAAGAUAGAGAGCAC	GUCUUCUCUAUCUGCUGUCGA	Clivagem
spe-miR156-2-3p	Sopen12g002130.1	2.5	20.061	1	21	219	239	GCUCUCUAUGCUUCUGUCAUC	GAUGGUAGAAGCAAAGAGGGC	Clivagem
spe-miR156-2-3p	Sopen03g037660.1	3.0	13.771	1	21	859	879	GCUCUCUAUGCUUCUGUCAUC	GAUGAUAGAACCAUAGAGUGC	Tradução
spe-miR156-2-3p	Sopen07g005330.1	3.0	12.452	1	21	922	942	GCUCUCUAUGCUUCUGUCAUC	GCUGAUGGAAGUAUAGAGAGU	Clivagem
spe-miR156-2-3p	Sopen08g007190.1	3.0	20.039	1	20	352	371	GCUCUCUAUGCUUCUGUCAU	GUGGCAGAAGCAUGGAGGGA	Clivagem
spe-miR156-2-3p	Sopen05g007820.1	3.0	20.326	1	20	398	417	GCUCUCUAUGCUUCUGUCAU	GUGACAGAAUCAGGGAGAGC	Tradução
spe-miR156-2-5p	Sopen05g010900.1	1.0	19.373	1	21	1118	1138	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
spe-miR156-2-5p	Sopen10g029320.1	1.0	18.612	1	21	764	784	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
spe-miR156-2-5p	Sopen04g017460.1	1.0	15.743	1	21	791	811	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
spe-miR156-2-5p	Sopen05g006830.1	1.5	10.69	1	21	1241	1261	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAG	Clivagem
spe-miR156-2-5p	Sopen12g018830.1	2.0	12.728	1	21	971	991	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-2-5p	Sopen05g011450.1	2.0	17.142	1	21	656	676	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-2-5p	Sopen02g019370.1	2.0	23.937	1	20	368	387	UUGACAGAAGAUAGAGAGCA	UGCUCUCUGUCUUCUGUUAC	Clivagem
spe-miR156-2-5p	Sopen03g033930.1	2.0	14.993	1	20	1158	1177	UUGACAGAAGAUAGAGAGCA	UGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-2-5p	Sopen11g001610.2	2.5	9.772	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUAA	Clivagem
spe-miR156-2-5p	Sopen11g001610.1	2.5	9.772	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUAA	Clivagem
spe-miR156-2-5p	Sopen01g049090.1	2.5	18.859	1	20	496	515	UUGACAGAAGAUAGAGAGCA	GGCUCUUAUCUUCUGUCAA	Clivagem
spe-miR156-2-5p	Sopen09g026080.1	3.0	9.383	1	21	18	38	UUGACAGAAGAUAGAGAGCAC	GUCUUCUCUAUCUGCUGUCGA	Clivagem
spe-miR156-3-3p	Sopen10g032270.1	3.0	10.747	1	21	2191	2211	GCUCUUUAUUCUUCUGUCAUC	GAUGACAUGAGAGUAGAGAGU	Clivagem

spe-miR156-3-3p	Sopen07g009400.1	3.0	17.246	1	20	399	418	GCUCUUUAUUCUUCUGUCAU	AUGGUGGAGGAGUAAAGAGU	Clivagem
spe-miR156-3-3p	Sopen08g014040.1	3.0	14.398	1	20	690	709	GCUCUUUAUUCUUCUGUCAU	AUGGUGGAAGCAUAAAGAGU	Tradução
spe-miR156-3-3p	Sopen07g003350.1	3.0	11.843	1	20	1	20	GCUCUUUAUUCUUCUGUCAU	AUGAUGGAGGAAAAAGAGU	Clivagem
spe-miR156-3-3p	Sopen01g001820.3	3.0	15.638	1	20	41	60	GCUCUUUAUUCUUCUGUCAU	AUGGCAGAAGAGGAAGGAGU	Clivagem
spe-miR156-3-3p	Sopen01g001820.1	3.0	15.638	1	20	41	60	GCUCUUUAUUCUUCUGUCAU	AUGGCAGAAGAGGAAGGAGU	Clivagem
spe-miR156-3-3p	Sopen07g024410.1	3.0	14.503	1	20	769	788	GCUCUUUAUUCUUCUGUCAU	UUGACUGAAGAAGAAAGAGC	Clivagem
spe-miR156-3-3p	Sopen05g025630.1	3.0	12.432	1	20	4753	4772	GCUCUUUAUUCUUCUGUCAU	AUGACAAGAGAAGAAAGAGU	Clivagem
spe-miR156-3-3p	Sopen12g008580.1	3.0	7.61	1	20	2590	2609	GCUCUUUAUUCUUCUGUCAU	AUGACAAGAGAAGAAAGAGU	Clivagem
spe-miR156-3-3p	Sopen12g008550.1	3.0	9.459	1	20	2047	2066	GCUCUUUAUUCUUCUGUCAU	AUGACAAGAGAAGAAAGAGU	Clivagem
spe-miR156-3-3p	Sopen02g021800.1	3.0	16.488	1	20	1	20	GCUCUUUAUUCUUCUGUCAU	AUGACAGAAAAGGAAGGAGC	Tradução
spe-miR156-3-5p	Sopen05g010900.1	1.0	19.373	1	21	1118	1138	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-3-5p	Sopen10g029320.1	1.0	18.612	1	21	764	784	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-3-5p	Sopen04g017460.1	1.0	15.743	1	21	791	811	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-3-5p	Sopen05g006830.1	1.5	10.69	1	21	1241	1261	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAG	Clivagem
spe-miR156-3-5p	Sopen12g018830.1	2.0	12.728	1	21	971	991	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-3-5p	Sopen05g011450.1	2.0	17.142	1	21	656	676	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-3-5p	Sopen02g019370.1	2.0	23.937	1	20	368	387	UUGACAGAAGAUAGAGAGCA	UGCUCUCUGUCUUCUGUUAC	Clivagem
spe-miR156-3-5p	Sopen03g033930.1	2.0	14.993	1	20	1158	1177	UUGACAGAAGAUAGAGAGCA	UGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-3-5p	Sopen11g001610.2	2.5	9.772	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUAA	Clivagem
spe-miR156-3-5p	Sopen11g001610.1	2.5	9.772	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUAA	Clivagem
spe-miR156-3-5p	Sopen01g049090.1	2.5	18.859	1	20	496	515	UUGACAGAAGAUAGAGAGCA	GGCUCUUCAUCUUCUGUCA	Clivagem
spe-miR156-3-5p	Sopen09g026080.1	3.0	9.383	1	21	18	38	UUGACAGAAGAUAGAGAGCAC	GUCUUCUCUAUCUGCUGUCGA	Clivagem
spe-miR156-4-3p	Sopen07g009400.1	3.0	17.246	1	20	399	418	GCUCUUUAUUCUUCUGUCAU	AUGGUGGAGGAGUAAAGAGU	Clivagem
spe-miR156-4-3p	Sopen10g032270.1	3.0	10.747	1	20	2192	2211	GCUCUUUAUUCUUCUGUCAU	AUGACAUGAGAGUAGAGAGU	Clivagem
spe-miR156-4-3p	Sopen08g014040.1	3.0	14.398	1	20	690	709	GCUCUUUAUUCUUCUGUCAU	AUGGUGGAAGCAUAAAGAGU	Tradução
spe-miR156-4-3p	Sopen07g003350.1	3.0	11.843	1	20	1	20	GCUCUUUAUUCUUCUGUCAU	AUGAUGGAGGAAAAAGAGU	Clivagem
spe-miR156-4-3p	Sopen01g001820.3	3.0	15.638	1	20	41	60	GCUCUUUAUUCUUCUGUCAU	AUGGCAGAAGAGGAAGGAGU	Clivagem
spe-miR156-4-3p	Sopen01g001820.1	3.0	15.638	1	20	41	60	GCUCUUUAUUCUUCUGUCAU	AUGGCAGAAGAGGAAGGAGU	Clivagem
spe-miR156-4-3p	Sopen07g024410.1	3.0	14.503	1	20	769	788	GCUCUUUAUUCUUCUGUCAU	UUGACUGAAGAAGAAAGAGC	Clivagem
spe-miR156-4-3p	Sopen05g025630.1	3.0	12.432	1	20	4753	4772	GCUCUUUAUUCUUCUGUCAU	AUGACAAGAGAAGAAAGAGU	Clivagem
spe-miR156-4-3p	Sopen12g008580.1	3.0	7.61	1	20	2590	2609	GCUCUUUAUUCUUCUGUCAU	AUGACAAGAGAAGAAAGAGU	Clivagem
spe-miR156-4-3p	Sopen12g008550.1	3.0	9.459	1	20	2047	2066	GCUCUUUAUUCUUCUGUCAU	AUGACAAGAGAAGAAAGAGU	Clivagem
spe-miR156-4-3p	Sopen02g021800.1	3.0	16.488	1	20	1	20	GCUCUUUAUUCUUCUGUCAU	AUGACAGAAAAGGAAGGAGC	Tradução
spe-miR156-4-3p	Sopen03g004300.1	3.0	11.211	1	20	1114	1132	GCUCUUUAUUCUUCUGUCAU	AUGAUAGAA-AAUAAAGAGU	Tradução
spe-miR156-4-5p	Sopen05g010900.1	1.0	19.373	1	21	1118	1138	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem

spe-miR156-4-5p	Sopen10g029320.1	1.0	18.612	1	21	764	784	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-4-5p	Sopen04g017460.1	1.0	15.743	1	21	791	811	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-4-5p	Sopen05g006830.1	1.5	10.69	1	21	1241	1261	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAG	Clivagem
spe-miR156-4-5p	Sopen12g018830.1	2.0	12.728	1	21	971	991	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-4-5p	Sopen05g011450.1	2.0	17.142	1	21	656	676	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-4-5p	Sopen02g019370.1	2.0	23.937	1	20	368	387	UUGACAGAAGAUAGAGAGCA	UGCUCUCUGUCUUCUGUUAC	Clivagem
spe-miR156-4-5p	Sopen03g033930.1	2.0	14.993	1	20	1158	1177	UUGACAGAAGAUAGAGAGCA	UGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-4-5p	Sopen11g001610.2	2.5	9.772	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUAA	Clivagem
spe-miR156-4-5p	Sopen11g001610.1	2.5	9.772	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUAA	Clivagem
spe-miR156-4-5p	Sopen01g049090.1	2.5	18.859	1	20	496	515	UUGACAGAAGAUAGAGAGCA	GGCUCUUAUCUUCUGUCA	Clivagem
spe-miR156-4-5p	Sopen09g026080.1	3.0	9.383	1	21	18	38	UUGACAGAAGAUAGAGAGCAC	GUCUUCUCUAUCUGCUGUCGA	Clivagem
spe-miR156-5-3p	Sopen01g038560.1	3.0	16.825	1	20	169	188	GCUCUUUAUUCUUCUGUCAC	GUGACAGAAGGAUGUGGAGC	Clivagem
spe-miR156-5-3p	Sopen07g024410.1	3.0	14.503	1	20	769	788	GCUCUUUAUUCUUCUGUCAC	UUGACUGAAGAAGAAAGAGC	Clivagem
spe-miR156-5-3p	Sopen01g026220.1	3.0	13.814	1	20	3086	3105	GCUCUUUAUUCUUCUGUCAC	GUGACAUAAAGAGAAAAGAGU	Clivagem
spe-miR156-5-3p	Sopen02g025840.1	3.0	15.377	1	20	1896	1915	GCUCUUUAUUCUUCUGUCAC	GUGGGAGAAGAUUGAAGAGC	Tradução
spe-miR156-5-3p	Sopen06g034380.2	3.0	14.445	1	20	375	394	GCUCUUUAUUCUUCUGUCAC	GUGGAAGAAGAAGAAAGAGU	Clivagem
spe-miR156-5-3p	Sopen06g034380.1	3.0	14.445	1	20	168	187	GCUCUUUAUUCUUCUGUCAC	GUGGAAGAAGAAGAAAGAGU	Clivagem
spe-miR156-5-3p	Sopen05g023480.1	3.0	7.749	1	20	347	366	GCUCUUUAUUCUUCUGUCAC	GCGAAAGAAGAGUAAAGGGC	Clivagem
spe-miR156-5-5p	Sopen05g010900.1	1.0	19.373	1	21	1118	1138	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-5-5p	Sopen10g029320.1	1.0	18.612	1	21	764	784	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-5-5p	Sopen04g017460.1	1.0	15.743	1	21	791	811	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-5-5p	Sopen05g006830.1	1.5	10.69	1	21	1241	1261	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAG	Clivagem
spe-miR156-5-5p	Sopen12g018830.1	2.0	12.728	1	21	971	991	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-5-5p	Sopen05g011450.1	2.0	17.142	1	21	656	676	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-5-5p	Sopen02g019370.1	2.0	23.937	1	20	368	387	UUGACAGAAGAUAGAGAGCA	UGCUCUCUGUCUUCUGUUAC	Clivagem
spe-miR156-5-5p	Sopen03g033930.1	2.0	14.993	1	20	1158	1177	UUGACAGAAGAUAGAGAGCA	UGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-5-5p	Sopen11g001610.2	2.5	9.772	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUAA	Clivagem
spe-miR156-5-5p	Sopen11g001610.1	2.5	9.772	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUAA	Clivagem
spe-miR156-5-5p	Sopen01g049090.1	2.5	18.859	1	20	496	515	UUGACAGAAGAUAGAGAGCA	GGCUCUUAUCUUCUGUCA	Clivagem
spe-miR156-5-5p	Sopen09g026080.1	3.0	9.383	1	21	18	38	UUGACAGAAGAUAGAGAGCAC	GUCUUCUCUAUCUGCUGUCGA	Clivagem
spe-miR156-6-3p	Sopen03g037870.1	3.0	14.675	1	22	1521	1542	GCUCUCUAUUCUUCUGUCAUCA	UGAUGAUAGAGCAAUGGAGAGU	Tradução
spe-miR156-6-3p	Sopen05g016520.1	3.0	14.317	1	22	414	435	GCUCUCUAUUCUUCUGUCAUCA	UGAGGAUAGAGGAAUAGAGGGU	Clivagem
spe-miR156-6-3p	Sopen01g039110.1	3.0	18.281	1	22	534	556	GCUCUCUAUUCUUC-UGUCAUCA	UGAUGACAUGGAGAAUAGGGAGC	Clivagem
spe-miR156-6-3p	Sopen10g032270.1	2.5	10.747	1	21	2191	2211	GCUCUCUAUUCUUCUGUCAUC	GAUGACAUGAGAGUAGAGAGU	Clivagem
spe-miR156-6-3p	Sopen05g025470.1	3.0	12.507	1	22	18	39	GCUCUCUAUUCUUCUGUCAUCA	UAAUGCUAGAAGAUGGAGGGU	Clivagem

spe-miR156-6-3p	Sopen09g018690.1	3.0	11.471	1	22	34	55	GCUCUCUAUUCUUCUGUCAUCA	UUAAGGAGGAAGAAUAGAGAGC	Clivagem
spe-miR156-6-3p	Sopen07g024250.1	3.0	21.197	1	20	210	229	GCUCUCUAUUCUUCUGUCAU	AUGGCAGACAAAUGGAGAGC	Tradução
spe-miR156-6-5p	Sopen05g010900.1	1.0	19.373	1	21	1118	1138	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
spe-miR156-6-5p	Sopen10g029320.1	1.0	18.612	1	21	764	784	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
spe-miR156-6-5p	Sopen04g017460.1	1.0	15.743	1	21	791	811	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAA	Clivagem
spe-miR156-6-5p	Sopen05g006830.1	1.5	10.69	1	21	1241	1261	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAG	Clivagem
spe-miR156-6-5p	Sopen12g018830.1	2.0	12.728	1	21	971	991	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-6-5p	Sopen05g011450.1	2.0	17.142	1	21	656	676	UUGACAGAAGAUAGAGAGCAC	GUGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-6-5p	Sopen02g019370.1	2.0	23.937	1	20	368	387	UUGACAGAAGAUAGAGAGCA	UGCUCUCUGUCUUCUGUUAC	Clivagem
spe-miR156-6-5p	Sopen03g033930.1	2.0	14.993	1	20	1158	1177	UUGACAGAAGAUAGAGAGCA	UGCUCUCUCUCUUCUGUCAU	Clivagem
spe-miR156-6-5p	Sopen11g001610.2	2.5	9.772	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUA	Clivagem
spe-miR156-6-5p	Sopen11g001610.1	2.5	9.772	1	20	178	197	UUGACAGAAGAUAGAGAGCA	AGCUUUUUUAUCUUCUGUUA	Clivagem
spe-miR156-6-5p	Sopen01g049090.1	2.5	18.859	1	20	496	515	UUGACAGAAGAUAGAGAGCA	GGCUCUUAUCUUCUGUCAA	Clivagem
spe-miR156-6-5p	Sopen09g026080.1	3.0	9.383	1	21	18	38	UUGACAGAAGAUAGAGAGCAC	GUCUUCUCUAUCUGCUGUCGA	Clivagem
spe-miR156-7-3p	Sopen05g023150.1	3.0	22.548	1	20	154	173	GCUUACUCUCUAUCUGUCAC	GUGACAUUAGGGAGAAAGC	Clivagem
spe-miR156-7-3p	Sopen08g008400.1	3.0	19.784	1	20	337	356	GCUUACUCUCUAUCUGUCAC	GUGACAUUAGAGAGAAGGC	Clivagem
spe-miR156-7-5p	Sopen05g006830.1	1.0	10.935	1	21	1240	1260	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-7-5p	Sopen12g018830.1	1.0	13.536	1	21	970	990	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-7-5p	Sopen05g010900.1	1.0	17.999	1	20	1118	1137	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-7-5p	Sopen10g029320.1	1.0	20.437	1	20	764	783	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-7-5p	Sopen04g017460.1	1.0	17.486	1	20	791	810	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-7-5p	Sopen05g011450.1	1.0	16.959	1	20	656	675	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-7-5p	Sopen03g033930.1	2.0	15.3	1	20	1157	1176	UGACAGAAGAGAGUGAGCAC	AUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-7-5p	Sopen04g012860.1	3.0	19.779	1	21	275	295	UGACAGAAGAGAGUGAGCACA	UGGGCUUUAUUUCUUCUGUUA	Clivagem
spe-miR156-7-5p	Sopen09g017280.1	3.0	7.793	1	21	1851	1871	UGACAGAAGAGAGUGAGCACA	UUUGCUCACUUUCAUUUGUCA	Clivagem
spe-miR156-7-5p	Sopen03g028420.1	3.0	11.697	1	20	3311	3330	UGACAGAAGAGAGUGAGCAC	GUGCUCUUAUCCCUUCUCUCA	Tradução
spe-miR156-7-5p	Sopen09g035820.2	3.0	14.923	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUCUUCUGUUA	Clivagem
spe-miR156-7-5p	Sopen09g035820.1	3.0	14.923	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUCUUCUGUUA	Clivagem
spe-miR156-8-3p	Sopen01g018450.1	1.0	20.795	1	22	726	747	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen05g021610.1	1.0	19.273	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUAGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen07g007550.1	1.0	17.663	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen12g012420.1	1.0	13.565	1	20	110	129	GCUCACUUCUCUAUCUGUCA	UGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen03g011830.1	1.0	13.593	1	20	116	135	GCUCACUUCUCUAUCUGUCA	UGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen01g009890.1	1.5	21.589	1	22	111	132	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUAGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen02g005260.1	1.5	17.576	1	22	1896	1917	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUAGAGAAGUGAGG	Clivagem

spe-miR156-8-3p	Sopen01g026210.1	1.5	15.635	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUAGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen04g014930.1	1.5	21.614	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUAGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen04g018070.1	1.5	17.245	1	22	27	48	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen11g015420.1	1.5	21.216	1	22	498	519	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen10g007760.1	1.5	16.709	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen05g012810.1	1.5	17.228	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGAUAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen10g015900.1	1.5	17.964	1	22	21	42	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen01g019370.1	1.5	12.207	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen03g017480.1	1.5	19.582	1	22	192	213	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen07g021080.1	1.5	19.827	1	22	150	171	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen10g018420.1	1.5	17.197	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen04g016790.1	1.5	23.924	1	22	243	264	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUAGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen09g013220.1	1.5	20.453	1	20	1124	1143	GCUCACUUCUCUAUCUGUCA	UGACGGAUAGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen06g010360.1	1.5	18.725	1	20	98	117	GCUCACUUCUCUAUCUGUCA	UGACAGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen12g014150.1	2.0	19.494	1	22	735	756	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen10g026080.1	2.0	18.553	1	22	1650	1671	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen01g022420.1	2.0	24.047	1	22	102	123	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen07g010090.1	2.0	18.277	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen12g011820.1	2.0	20.389	1	22	48	69	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen04g019970.1	2.0	19.938	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen02g001170.1	2.0	20.828	1	22	1188	1209	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen01g017270.1	2.0	22.236	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen03g020600.1	2.0	24.232	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen09g017650.1	2.0	19.41	1	22	219	240	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen03g019520.1	2.0	15.474	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGGCAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen07g018880.1	2.0	16.413	1	20	4949	4968	GCUCACUUCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen04g013680.1	2.0	21.133	1	20	113	132	GCUCACUUCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen03g016380.1	2.0	21.313	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen04g014110.1	2.0	14.701	1	20	116	135	GCUCACUUCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen09g020350.1	2.0	22.222	1	22	108	129	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUCAGC	Clivagem
spe-miR156-8-3p	Sopen03g012430.1	2.0	17.997	1	20	440	459	GCUCACUUCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen07g013370.1	2.0	23.653	1	20	755	774	GCUCACUUCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen01g020340.1	3.0	21.612	1	22	99	120	GCUCACUUCUCUAUCUGUCACC	GGUGACAGAUGGACAACUGAGC	Tradução
spe-miR156-8-3p	Sopen05g013320.1	2.0	19.059	1	20	116	135	GCUCACUUCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen03g012270.1	3.0	19.53	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGAUG	Clivagem

spe-miR156-8-3p	Sopen12g013480.1	2.0	19.39	1	20	116	135	GCUCACUUCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen07g015170.1	2.5	23.984	1	21	103	123	GCUCACUUCUCUAUCUGUCAC	GUGACAGAUGGUGAAGUGAGG	Tradução
spe-miR156-8-3p	Sopen06g008810.1	2.5	14.395	1	22	1071	1092	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUAGAGAAGUCAGG	Clivagem
spe-miR156-8-3p	Sopen05g016290.1	2.5	23.608	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACGGGUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen11g017650.1	2.5	20.78	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGAUGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen06g007370.1	2.5	15.336	1	22	99	120	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUAGAGAAGUUAGA	Clivagem
spe-miR156-8-3p	Sopen10g013250.1	2.5	21.997	1	22	687	708	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUAAGC	Clivagem
spe-miR156-8-3p	Sopen05g023590.1	2.0	23.767	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGAAAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen01g018660.1	2.5	17.316	1	22	102	123	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUAAGU	Clivagem
spe-miR156-8-3p	Sopen09g014030.1	3.0	20.643	1	22	6333	6354	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGAGAGA	Clivagem
spe-miR156-8-3p	Sopen10g014570.1	3.0	21.139	1	22	2269	2290	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUAAGG	Clivagem
spe-miR156-8-3p	Sopen05g015100.1	3.0	21.315	1	22	1668	1689	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUAAGG	Clivagem
spe-miR156-8-3p	Sopen05g015100.1	3.0	19.44	1	22	2118	2139	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUAAGG	Clivagem
spe-miR156-8-3p	Sopen04g010720.1	2.5	24.081	1	22	2742	2763	GCUCACUUCUCUAUCUGUCACC	GUUGACAAAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen01g021200.1	3.0	24.643	1	21	2234	2254	GCUCACUUCUCUAUCUGUCAC	GUGGUGGACAGAGAAGUGAGU	Clivagem
spe-miR156-8-3p	Sopen04g018110.1	3.0	22.918	1	22	2151	2172	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUAAGG	Clivagem
spe-miR156-8-3p	Sopen12g011810.1	2.5	18.323	1	22	75	96	GCUCACUUCUCUAUCUGUCACC	GUUGACCGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen08g008920.1	3.0	20.413	1	22	2172	2193	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUAAGG	Clivagem
spe-miR156-8-3p	Sopen02g005700.1	2.5	24.158	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGUGAAGUGAGG	Tradução
spe-miR156-8-3p	Sopen09g015080.1	2.5	19.321	1	22	27	48	GCUCACUUCUCUAUCUGUCACC	GUUGACCGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen01g020550.1	2.5	19.361	1	22	27	48	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGCGAAGUGAGG	Tradução
spe-miR156-8-3p	Sopen03g020680.1	2.5	21.226	1	22	27	48	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAAGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen11g017850.1	2.5	23.005	1	22	696	717	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGCAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen05g015280.1	2.5	20.63	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUAAAGAAGUGAGA	Tradução
spe-miR156-8-3p	Sopen02g004810.1	2.5	13.851	1	22	105	126	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGUGAAGUGAGG	Tradução
spe-miR156-8-3p	Sopen05g034390.1	3.0	17.79	1	20	1019	1038	GCUCACUUCUCUAUCUGUCA	GGAUAGAUAGAGGAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen06g010580.1	3.0	20.379	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUAAGG	Clivagem
spe-miR156-8-3p	Sopen12g008980.1	2.5	24.385	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGUGAAGUGAGG	Tradução
spe-miR156-8-3p	Sopen05g024620.1	3.0	24.101	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUAAGG	Clivagem
spe-miR156-8-3p	Sopen01g018670.1	3.0	17.055	1	22	102	123	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUAAGG	Clivagem
spe-miR156-8-3p	Sopen01g017980.1	3.0	22.992	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAAUGAGA	Clivagem
spe-miR156-8-3p	Sopen04g014410.1	3.0	18.968	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUGUGG	Clivagem
spe-miR156-8-3p	Sopen06g013360.1	3.0	23.894	1	22	102	123	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUUAGA	Clivagem
spe-miR156-8-3p	Sopen09g015900.1	3.0	22.251	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUAAGG	Clivagem
spe-miR156-8-3p	Sopen11g022380.1	3.0	23.237	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGAGAGG	Clivagem

spe-miR156-8-3p	Sopen09g014870.1	2.5	19.783	1	22	255	276	GCUCACUUCUCUAUCUGUCACC	GUUGACCGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen06g013370.1	3.0	22.261	1	22	102	123	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUUAGA	Clivagem
spe-miR156-8-3p	Sopen08g007210.1	2.5	20.066	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUCACAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen08g013910.1	2.5	18.309	1	20	1289	1308	GCUCACUUCUCUAUCUGUCA	UGACAGAUGGUGAAGUGAGG	Tradução
spe-miR156-8-3p	Sopen01g049520.1	2.5	19.943	1	20	162	181	GCUCACUUCUCUAUCUGUCA	UGACAGAUUGGGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen09g010440.1	3.0	19.119	1	20	116	135	GCUCACUUCUCUAUCUGUCA	UGACAGAUGGAGAAGUAAGA	Clivagem
spe-miR156-8-3p	Sopen02g004230.1	2.5	19.772	1	20	116	135	GCUCACUUCUCUAUCUGUCA	UGACAUUUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen09g014390.1	2.5	16.461	1	20	116	135	GCUCACUUCUCUAUCUGUCA	UGACAGAUGGUGAAGUGAGA	Tradução
spe-miR156-8-3p	Sopen09g015680.1	3.0	18.736	1	20	116	135	GCUCACUUCUCUAUCUGUCA	UGACAGAUGGAGAAGUAAGG	Clivagem
spe-miR156-8-3p	Sopen09g014050.1	2.5	20.919	1	20	116	135	GCUCACUUCUCUAUCUGUCA	UGACUGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen08g007070.1	3.0	20.427	1	22	1764	1785	GCUCACUUCUCUAUCUGUCACC	GUUGAAGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen04g021510.1	3.0	5.683	1	21	16	36	GCUCACUUCUCUAUCUGUCAC	GUGAAAGAAAGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen07g024020.1	3.0	22.22	1	21	673	693	GCUCACUUCUCUAUCUGUCAC	GUGUUAGUUAGAGAAGUGAGU	Clivagem
spe-miR156-8-3p	Sopen11g017500.1	3.0	18.918	1	22	111	132	GCUCACUUCUCUAUCUGUCACC	GUUAACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen01g017900.1	3.0	21.978	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAAGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen02g008080.1	3.0	19.956	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGUAGAAGUGAGA	Tradução
spe-miR156-8-3p	Sopen05g024040.1	3.0	18.502	1	22	417	438	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGCAGAAGUGAGA	Tradução
spe-miR156-8-3p	Sopen11g012890.1	3.0	23.978	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGGAAAAGUGAGA	Tradução
spe-miR156-8-3p	Sopen11g015430.1	3.0	18.151	1	22	21	42	GCUCACUUCUCUAUCUGUCACC	GAUGACGAAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen06g015590.1	3.0	18.7	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUGACGGAUGUAGAAGUGAGA	Tradução
spe-miR156-8-3p	Sopen12g014680.1	3.0	21.768	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUCACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen08g013250.1	3.0	24.63	1	22	114	135	GCUCACUUCUCUAUCUGUCACC	GUUAACGGAUGGAGAAGUGAGG	Clivagem
spe-miR156-8-3p	Sopen09g019540.1	3.0	22.075	1	20	1736	1755	GCUCACUUCUCUAUCUGUCA	UGACAGAUGGUGAGGUGAGG	Tradução
spe-miR156-8-3p	Sopen03g020560.1	3.0	20.876	1	20	116	135	GCUCACUUCUCUAUCUGUCA	UGAUAGAUGGUGAAGUGAGG	Tradução
spe-miR156-8-3p	Sopen01g016250.1	3.0	18.832	1	20	122	141	GCUCACUUCUCUAUCUGUCA	UGACGGAUGGAAAAGUGAGA	Tradução
spe-miR156-8-3p	Sopen01g014190.1	3.0	17.823	1	20	110	129	GCUCACUUCUCUAUCUGUCA	UGACGAAUGGAGAAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen05g018640.1	3.0	15.812	1	20	116	135	GCUCACUUCUCUAUCUGUCA	UGACGGAUGAAGAAGUGAGA	Tradução
spe-miR156-8-3p	Sopen07g020170.1	3.0	23.413	1	20	137	156	GCUCACUUCUCUAUCUGUCA	UGACAGAUGGUGAGGUGAGG	Tradução
spe-miR156-8-3p	Sopen05g016080.1	3.0	19.816	1	20	116	135	GCUCACUUCUCUAUCUGUCA	UGACGGAUGGAGUAGUGAGA	Clivagem
spe-miR156-8-3p	Sopen02g005380.1	3.0	21.663	1	22	156	177	GCUCACUUCUCUAUCUGUCACC	GUUGACAGAUUGUGAAGUGAGG	Tradução
spe-miR156-8-3p	Sopen05g018920.1	3.0	24.289	1	22	5093	5114	GCUCACUUCUCUAUCUGUCACC	GAUCACAGAUAGAUAGGUGGGC	Tradução
spe-miR156-8-3p	Sopen03g001040.1	3.0	18.762	1	21	350	370	GCUCACUUCUCUAUCUGUCAC	GUGAAAGCUUGAGAAGUGAGC	Clivagem
spe-miR156-8-3p	Sopen04g028970.1	3.0	13.887	1	22	652	673	GCUCACUUCUCUAUCUGUCACC	GCUGAUAAAUAUGGAAGUGAGC	Tradução
spe-miR156-8-5p	Sopen05g006830.1	1.0	10.935	1	21	1240	1260	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-8-5p	Sopen12g018830.1	1.0	13.536	1	21	970	990	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem

spe-miR156-8-5p	Sopen05g010900.1	1.0	17.999	1	20	1118	1137	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-8-5p	Sopen10g029320.1	1.0	20.437	1	20	764	783	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-8-5p	Sopen04g017460.1	1.0	17.486	1	20	791	810	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-8-5p	Sopen05g011450.1	1.0	16.959	1	20	656	675	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-8-5p	Sopen03g033930.1	2.0	15.3	1	20	1157	1176	UGACAGAAGAGAGUGAGCAC	AUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-8-5p	Sopen04g012860.1	3.0	19.779	1	21	275	295	UGACAGAAGAGAGUGAGCACA	UGGGCUUAUUUUCUUCUGUUA	Clivagem
spe-miR156-8-5p	Sopen09g017280.1	3.0	7.793	1	21	1851	1871	UGACAGAAGAGAGUGAGCACA	UUUGCUCACUUUUAUUUGUCA	Clivagem
spe-miR156-8-5p	Sopen03g028420.1	3.0	11.697	1	20	3311	3330	UGACAGAAGAGAGUGAGCAC	GUGCUCUUAUCCCUUCUCUCA	Tradução
spe-miR156-8-5p	Sopen09g035820.2	3.0	14.923	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUCUUCUGUUA	Clivagem
spe-miR156-8-5p	Sopen09g035820.1	3.0	14.923	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUCUUCUGUUA	Clivagem
spe-miR156-9-3p	Sopen11g017850.1	1.5	23.005	1	22	696	717	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUUGAGCAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen05g032860.1	2.5	17.384	1	21	537	557	GCUCACUGCUCUAUCUGUCAC	GAGACAGGUAGAGCGGUGGGC	Clivagem
spe-miR156-9-3p	Sopen01g018450.1	2.0	20.795	1	22	726	747	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen05g021610.1	2.0	19.273	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUAGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen07g007550.1	2.0	17.663	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen12g012420.1	2.0	13.565	1	20	110	129	GCUCACUGCUCUAUCUGUCA	UGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen03g011830.1	2.0	13.593	1	20	116	135	GCUCACUGCUCUAUCUGUCA	UGACAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen05g016080.1	2.5	19.816	1	20	116	135	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGUAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen01g009890.1	2.5	21.589	1	22	111	132	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen02g005260.1	2.5	17.576	1	22	1896	1917	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen01g026210.1	2.5	15.635	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUAGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen04g014930.1	2.5	21.614	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUAGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen04g018070.1	2.5	17.245	1	22	27	48	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen11g015420.1	2.5	21.216	1	22	498	519	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen10g007760.1	2.5	16.709	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen05g012810.1	2.5	17.228	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGAUAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen10g015900.1	2.5	17.964	1	22	21	42	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen01g019370.1	2.5	12.207	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen03g017480.1	2.5	19.582	1	22	192	213	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen07g021080.1	2.5	19.827	1	22	150	171	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen10g018420.1	2.5	17.197	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUUGGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen04g016790.1	2.5	23.924	1	22	243	264	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUAGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen09g013220.1	2.5	20.453	1	20	1124	1143	GCUCACUGCUCUAUCUGUCA	UGACGGAUAGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen06g010360.1	2.5	18.725	1	20	98	117	GCUCACUGCUCUAUCUGUCA	UGACAGAUUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen12g014150.1	3.0	19.494	1	22	735	756	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem

spe-miR156-9-3p	Sopen10g026080.1	3.0	18.553	1	22	1650	1671	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen01g022420.1	3.0	24.047	1	22	102	123	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen07g010090.1	3.0	18.277	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen12g011820.1	3.0	20.389	1	22	48	69	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen04g019970.1	3.0	19.938	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen02g001170.1	3.0	20.828	1	22	1188	1209	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen01g017270.1	3.0	22.236	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen03g020600.1	3.0	24.232	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen09g017650.1	3.0	19.41	1	22	219	240	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen03g019520.1	3.0	15.474	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGGCAGAUGGAGAAGUGAGG	Clivagem
spe-miR156-9-3p	Sopen03g016380.1	3.0	21.313	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen07g018880.1	3.0	16.413	1	20	4949	4968	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen04g013680.1	3.0	21.133	1	20	113	132	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen04g014110.1	3.0	14.701	1	20	116	135	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen09g020350.1	3.0	22.222	1	22	108	129	GCUCACUGCUCUAUCUGUCACC	GUUGACAGAUGGAGAAGUCAGC	Clivagem
spe-miR156-9-3p	Sopen03g012430.1	3.0	17.997	1	20	440	459	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen07g013370.1	3.0	23.653	1	20	755	774	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen05g013320.1	3.0	19.059	1	20	116	135	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen12g013480.1	3.0	19.39	1	20	116	135	GCUCACUGCUCUAUCUGUCA	UGACGGAUGGAGAAGUGAGA	Clivagem
spe-miR156-9-3p	Sopen09g008870.1	3.0	13.117	1	20	2157	2176	GCUCACUGCUCUAUCUGUCA	UGAUAGAUUAGCAGAGAGC	Tradução
spe-miR156-9-3p	Sopen05g023590.1	3.0	23.767	1	22	114	135	GCUCACUGCUCUAUCUGUCACC	GUUGAAAGAUAGAGAAGUGAGG	Clivagem
spe-miR156-9-5p	Sopen05g006830.1	1.0	10.935	1	21	1240	1260	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-9-5p	Sopen12g018830.1	1.0	13.536	1	21	970	990	UGACAGAAGAGAGUGAGCACA	UGUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-9-5p	Sopen05g010900.1	1.0	17.999	1	20	1118	1137	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-9-5p	Sopen10g029320.1	1.0	20.437	1	20	764	783	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-9-5p	Sopen04g017460.1	1.0	17.486	1	20	791	810	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-9-5p	Sopen05g011450.1	1.0	16.959	1	20	656	675	UGACAGAAGAGAGUGAGCAC	GUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-9-5p	Sopen03g033930.1	2.0	15.3	1	20	1157	1176	UGACAGAAGAGAGUGAGCAC	AUGCUCUCUCUCUUCUGUCA	Clivagem
spe-miR156-9-5p	Sopen04g012860.1	3.0	19.779	1	21	275	295	UGACAGAAGAGAGUGAGCACA	UGGGCUUUAUUUCUUCUGUUA	Clivagem
spe-miR156-9-5p	Sopen09g017280.1	3.0	7.793	1	21	1851	1871	UGACAGAAGAGAGUGAGCACA	UUUGCUCACUUUCAUUUGUCA	Clivagem
spe-miR156-9-5p	Sopen03g028420.1	3.0	11.697	1	20	3311	3330	UGACAGAAGAGAGUGAGCAC	GUGCUCUUCUCCUUCUCUCA	Tradução
spe-miR156-9-5p	Sopen09g035820.2	3.0	14.923	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUCUUCUGUUA	Clivagem
spe-miR156-9-5p	Sopen09g035820.1	3.0	14.923	1	20	425	445	UGACAGAAGAGAGU-GAGCAC	GUGCUCGAUUCUCUUCUGUUA	Clivagem
spe-miR160-1-3p	Sopen09g004010.1	3.0	18.282	1	21	61	81	GCGUAUGAGGAGCCAAGCAUA	UAUCCUUGGCUCUUAUAUGU	Clivagem
spe-miR160-1-3p	Sopen02g003520.1	3.0	19.396	1	21	3650	3670	GCGUAUGAGGAGCCAAGCAUA	UACACUUGGCUCUUAUAUGC	Clivagem

spe-miR160-1-5p	Sopen09g002650.1	0.5	24.519	1	21	1353	1373	UGCCUGGCUCCUGUAUGCCA	UGGCAUGCAGGGAGCCAGGCA	Clivagem
spe-miR160-1-5p	Sopen11g028210.1	0.0	21.851	1	20	1303	1322	UGCCUGGCUCCUGUAUGCC	GGCAUACAGGGAGCCAGGCA	Clivagem
spe-miR160-1-5p	Sopen10g035510.1	1.0	18.481	1	21	1344	1364	UGCCUGGCUCCUGUAUGCCA	UGGUUAGCAGGGAGCCAGGCA	Clivagem
spe-miR160-1-5p	Sopen11g008490.1	0.5	20.847	1	20	1393	1412	UGCCUGGCUCCUGUAUGCC	GGCAUGCAGGGAGCCAGGCA	Clivagem
spe-miR160-2-3p	Sopen03g041640.1	2.0	19.497	1	21	869	889	GCAUUCUAGGAGCUAAGCAUG	CAUGCUIUUGCUCCUGGAAUGU	Clivagem
spe-miR160-2-3p	Sopen09g001230.1	3.0	19.206	1	20	847	866	GCAUUCUAGGAGCUAAGCAU	GUGCUUAGUUUUUGGAGUGC	Clivagem
spe-miR160-2-3p	Sopen06g022710.2	3.0	21.614	1	21	119	139	GCAUUCUAGGAGCUAAGCAUG	CAUGCUIUUGCUCCAGGAAUGU	Clivagem
spe-miR160-2-3p	Sopen06g022710.1	3.0	21.614	1	21	215	235	GCAUUCUAGGAGCUAAGCAUG	CAUGCUIUUGCUCCAGGAAUGU	Clivagem
spe-miR160-2-3p	Sopen06g022710.3	3.0	21.614	1	21	1151	1171	GCAUUCUAGGAGCUAAGCAUG	CAUGCUIUUGCUCCAGGAAUGU	Clivagem
spe-miR160-2-5p	Sopen09g002650.1	1.0	24.519	1	21	1353	1373	UGCCUGGCUCUUGUAUGCCA	UGGCAUGCAGGGAGCCAGGCA	Clivagem
spe-miR160-2-5p	Sopen11g028210.1	0.5	21.851	1	20	1303	1322	UGCCUGGCUCUUGUAUGCC	GGCAUACAGGGAGCCAGGCA	Clivagem
spe-miR160-2-5p	Sopen10g035510.1	1.5	18.481	1	21	1344	1364	UGCCUGGCUCUUGUAUGCCA	UGGUUAGCAGGGAGCCAGGCA	Clivagem
spe-miR160-2-5p	Sopen11g008490.1	1.0	20.847	1	20	1393	1412	UGCCUGGCUCUUGUAUGCC	GGCAUGCAGGGAGCCAGGCA	Clivagem
spe-miR160-2-5p	Sopen00g001830.1	2.5	17.357	1	19	1862	1881	UGCCUGGCUCUUGUAUGC	GCAUACGAAGGGGCCAGGCA	Clivagem
spe-miR160-2-5p	Sopen11g027660.1	3.0	15.581	1	20	1376	1395	UGCCUGGCUCUUGUAUGCC	GGCUAACAAGGAGUCAGGUA	Clivagem
spe-miR160-2-5p	Sopen05g029300.1	3.0	21.766	1	19	2225	2244	UGCCUGGCUCUUGUAUGC	GCAUACGAAGGGGUCAGGCA	Clivagem
spe-miR160a-3p	Sopen09g004010.1	2.5	18.282	1	21	61	81	GCGUAUAAGGAGCCAAGCAUA	UAUCCUUGGCUCUUAUAUGU	Clivagem
spe-miR160a-3p	Sopen02g003520.1	2.5	19.396	1	21	3650	3670	GCGUAUAAGGAGCCAAGCAUA	UACACUUGGCUCUUAUAUGC	Clivagem
spe-miR160a-5p	Sopen09g002650.1	0.5	24.519	1	21	1353	1373	UGCCUGGCUCCUGUAUGCCA	UGGCAUGCAGGGAGCCAGGCA	Clivagem
spe-miR160a-5p	Sopen11g028210.1	0.0	21.851	1	20	1303	1322	UGCCUGGCUCCUGUAUGCC	GGCAUACAGGGAGCCAGGCA	Clivagem
spe-miR160a-5p	Sopen10g035510.1	1.0	18.481	1	21	1344	1364	UGCCUGGCUCCUGUAUGCCA	UGGUUAGCAGGGAGCCAGGCA	Clivagem
spe-miR160a-5p	Sopen11g008490.1	0.5	20.847	1	20	1393	1412	UGCCUGGCUCCUGUAUGCC	GGCAUGCAGGGAGCCAGGCA	Clivagem
spe-miR160c-5p	Sopen09g002650.1	1.0	24.519	1	21	1353	1373	UGCCUGGCUCCUGGAUGCCA	UGGCAUGCAGGGAGCCAGGCA	Clivagem
spe-miR160c-5p	Sopen10g035510.1	1.5	18.481	1	21	1344	1364	UGCCUGGCUCCUGGAUGCCA	UGGUUAGCAGGGAGCCAGGCA	Clivagem
spe-miR160c-5p	Sopen11g008490.1	1.0	20.847	1	20	1393	1412	UGCCUGGCUCCUGGAUGCC	GGCAUGCAGGGAGCCAGGCA	Clivagem
spe-miR160c-5p	Sopen11g028210.1	1.0	21.851	1	20	1303	1322	UGCCUGGCUCCUGGAUGCC	GGCAUACAGGGAGCCAGGCA	Clivagem
spe-miR160c-5p	Sopen01g037400.1	2.5	16.185	1	20	1161	1180	UGCCUGGCUCCUGGAUGCC	GGCUUCCAGGGAGACAGGCA	Clivagem
spe-miR160g-2-5p	Sopen09g004290.1	3.0	20.063	1	21	149	169	UGCUUGGCUCUUAUACGCCA	UGGCGUAUAAGGAGCAAGGUG	Clivagem
spe-miR160g-2-5p	Sopen06g003000.1	3.0	17.183	1	21	1433	1453	UGCUUGGCUCUUAUACGCCA	UGGUUUUAAGGAGUUGAGCA	Clivagem
spe-miR160g-2-5p	Sopen06g002900.1	3.0	14.522	1	21	5111	5131	UGCUUGGCUCUUAUACGCCA	UGGUUUUAAGGAGUUGAGCA	Clivagem
spe-miR160g-2-5p	Sopen11g028210.1	3.0	21.851	1	20	1303	1322	UGCUUGGCUCUUAUACGCC	GGCAUACAGGGAGCCAGGCA	Clivagem
spe-miR162a-1-3p	Sopen04g015920.1	1.5	23.84	1	21	1776	1796	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUUUUUGC	Clivagem
spe-miR162a-1-3p	Sopen11g022790.1	2.0	21.749	1	21	189	209	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGA	Clivagem
spe-miR162a-1-3p	Sopen05g025280.1	2.0	23.235	1	21	1824	1844	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGA	Clivagem
spe-miR162a-1-3p	Sopen11g011420.1	2.0	23.493	1	21	2022	2042	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGA	Clivagem

spe-miR162a-1-3p	Sopen12g027200.1	2.0	22.999	1	21	3621	3641	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGA	Clivagem
spe-miR162a-1-3p	Sopen07g013870.1	2.0	24.098	1	21	3762	3782	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGA	Clivagem
spe-miR162a-1-3p	Sopen10g001150.1	2.0	18.626	1	21	3073	3094	UCGAUAA-ACCUCUGCAUCCAG	CUGGAUGCAGAGGUUAUUAUCGA	Clivagem
spe-miR162a-1-3p	Sopen01g018960.1	2.5	22.703	1	20	1207	1226	UCGAUAAACCUCUGCAUCCA	AGGAUGCAGAGGUUUUUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen04g015700.1	3.0	15.881	1	20	2866	2885	UCGAUAAACCUCUGCAUCCA	UGGAUGCAGAGGUUUUAUAC	Clivagem
spe-miR162a-1-3p	Sopen05g019170.1	3.0	23.814	1	21	30	50	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGU	Clivagem
spe-miR162a-1-3p	Sopen05g013160.1	3.0	22.99	1	21	882	902	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen10g020850.1	3.0	23.323	1	21	894	914	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen01g018610.2	3.0	22.361	1	21	1008	1028	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen06g012090.1	3.0	23.193	1	21	795	815	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen08g011360.1	3.0	20.199	1	21	30	50	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen04g009510.1	3.0	21.422	1	21	1287	1307	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen04g008580.1	2.5	18.663	1	20	788	807	UCGAUAAACCUCUGCAUCCA	UGGAUGCAGAGGUUGAUUUGG	Clivagem
spe-miR162a-1-3p	Sopen08g011520.1	3.0	22.833	1	21	1278	1298	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGU	Clivagem
spe-miR162a-1-3p	Sopen09g010030.1	3.0	23.092	1	21	1537	1557	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen01g019070.1	3.0	19.549	1	21	1578	1598	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen09g022310.1	3.0	23.823	1	21	1755	1775	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen09g021250.1	3.0	22.971	1	21	1533	1553	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen05g018310.1	3.0	20.232	1	21	1860	1880	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen12g018400.1	3.0	24.534	1	21	1749	1769	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen01g014920.1	3.0	23.935	1	21	2292	2312	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen09g010270.1	3.0	24.883	1	21	2463	2483	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen07g013350.1	3.0	18.864	1	21	2214	2234	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen10g019050.1	3.0	21.864	1	21	2268	2288	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen06g010320.1	3.0	23.158	1	21	1914	1934	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen04g013690.1	3.0	24.369	1	21	2473	2493	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen11g021750.1	3.0	20.243	1	21	2277	2297	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen08g010430.1	3.0	20.29	1	21	2220	2240	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen05g015900.1	3.0	20.348	1	21	2397	2417	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen07g012670.1	3.0	23.643	1	21	2505	2525	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen01g019730.1	3.0	23.646	1	21	792	812	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen10g021040.1	3.0	22.973	1	21	2673	2693	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen09g018110.1	3.0	19.604	1	21	1758	1778	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen10g015300.1	3.0	19.312	1	21	2610	2630	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen12g019640.1	3.0	19.708	1	21	2457	2477	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem

spe-miR162a-1-3p	Sopen06g010300.1	3.0	19.311	1	21	2052	2072	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen01g023620.1	3.0	22.52	1	21	2781	2801	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen01g014360.1	3.0	24.31	1	21	2799	2819	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen10g011300.1	3.0	18.269	1	21	2805	2825	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen08g015880.1	3.0	18.826	1	21	2190	2210	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen10g017700.1	2.5	22.321	1	21	2829	2849	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGUUUAUUGC	Tradução
spe-miR162a-1-3p	Sopen10g011520.1	3.0	22.604	1	21	2673	2693	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGU	Clivagem
spe-miR162a-1-3p	Sopen05g022360.1	3.0	23.027	1	21	2781	2801	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen09g021690.1	3.0	22.966	1	21	2802	2822	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen02g004730.1	3.0	24.003	1	21	2892	2912	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen07g021320.1	3.0	20.492	1	21	2844	2864	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen03g018150.1	3.0	19.095	1	21	3102	3122	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen07g011010.1	3.0	20.239	1	21	2934	2954	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen10g014520.1	3.0	19.059	1	21	1449	1469	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen01g017290.1	3.0	19.782	1	21	2910	2930	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen08g013390.1	3.0	19.675	1	21	3009	3029	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen06g013170.1	3.0	20.537	1	21	3279	3299	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen06g015490.1	3.0	23.663	1	21	2997	3017	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen11g016670.1	3.0	22.083	1	21	3078	3098	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen10g016760.1	3.0	24.609	1	21	2970	2990	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen07g007720.1	3.0	17.139	1	21	2988	3008	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen02g002060.1	3.0	23.867	1	21	3039	3059	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen12g008440.1	3.0	20.284	1	21	2880	2900	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen05g026590.1	3.0	20.798	1	21	3051	3071	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen06g006370.1	3.0	24.442	1	21	3177	3197	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen07g006790.1	3.0	23.323	1	21	3201	3221	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGU	Clivagem
spe-miR162a-1-3p	Sopen03g015490.1	3.0	24.128	1	21	3363	3383	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen05g021270.1	3.0	19.277	1	21	3375	3395	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGU	Clivagem
spe-miR162a-1-3p	Sopen01g026340.3	3.0	21.775	1	21	2538	2558	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen09g012910.1	3.0	23.536	1	21	3501	3521	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen05g014960.1	3.0	20.749	1	21	3225	3245	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen01g018760.1	3.0	24.834	1	21	3609	3629	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen01g018780.1	3.0	24.069	1	21	3288	3308	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen11g016970.1	3.0	24.475	1	21	3510	3530	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen07g008950.1	3.0	21.256	1	21	3453	3473	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem

spe-miR162a-1-3p	Sopen03g019810.1	3.0	19.517	1	21	3798	3818	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen01g018610.1	3.0	22.361	1	21	3696	3716	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen05g027810.1	3.0	23.498	1	21	3462	3482	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen03g008570.1	3.0	20.724	1	21	3735	3755	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen09g011720.1	3.0	22.572	1	21	3444	3464	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen06g010410.1	3.0	24.752	1	21	2931	2951	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen01g026340.2	3.0	21.775	1	21	2538	2558	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen08g012390.1	3.0	23.361	1	21	3960	3980	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen02g004530.1	3.0	23.346	1	21	3189	3209	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen01g026340.1	3.0	21.775	1	21	2538	2558	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen12g008790.1	3.0	24.252	1	21	4053	4073	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen12g009450.1	3.0	23.349	1	21	4194	4214	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen10g015130.1	3.0	23.423	1	21	4191	4211	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen12g020370.1	3.0	23.812	1	21	4851	4871	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen04g010070.1	3.0	23.192	1	21	4545	4565	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGU	Clivagem
spe-miR162a-1-3p	Sopen12g015370.1	3.0	22.097	1	21	2952	2972	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen04g017480.1	3.0	23.983	1	21	4740	4760	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen09g009180.1	3.0	21.389	1	21	3543	3563	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen05g011120.1	3.0	23.887	1	21	4656	4676	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen05g014680.1	3.0	19.888	1	21	1611	1631	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen05g014680.1	3.0	21.067	1	21	5412	5432	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen07g008130.1	3.0	24.114	1	21	3948	3968	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen06g012230.1	3.0	22.302	1	21	6018	6038	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen04g009510.2	3.0	21.422	1	21	5868	5888	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen08g007670.1	3.0	24.019	1	21	5649	5669	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen06g012610.1	3.0	22.056	1	21	3219	3239	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen11g011080.1	3.0	19.401	1	21	3333	3353	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen11g017160.1	3.0	21.983	1	21	7125	7145	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen03g013510.1	3.0	22.197	1	21	7779	7799	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen08g012200.1	3.0	23.317	1	21	7680	7700	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen04g011520.2	3.0	24.264	1	20	31	50	UCGAUAAACCUCUGCAUCCA	UGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen04g011520.1	3.0	23.12	1	20	2719	2738	UCGAUAAACCUCUGCAUCCA	UGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen04g017510.1	3.0	23.767	1	20	2701	2720	UCGAUAAACCUCUGCAUCCA	UGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-1-3p	Sopen01g022920.1	3.0	23.786	1	21	669	689	UCGAUAAACCUCUGCAUCCAG	UUGGAUGAAGAGGUCUAUUGA	Clivagem
spe-miR162a-1-5p	Sopen11g015090.1	2.5	17.188	1	20	1834	1853	GGAGGCAGCGGUUCAUCAU	AGCGAUGGAUCGUUGCCUCC	Clivagem

spe-miR162a-1-5p	Sopen04g033060.2	3.0	18.362	1	21	300	320	GGAGGCAGCGGUUCAUCAUC	GAUCGAUCAAACGCUGCCUUU	Tradução
spe-miR162a-1-5p	Sopen04g033060.1	3.0	15.44	1	21	300	320	GGAGGCAGCGGUUCAUCAUC	GAUCGAUCAAACGCUGCCUUU	Tradução
spe-miR162a-2-3p	Sopen04g015920.1	1.5	23.84	1	21	1776	1796	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUUUUUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen11g022790.1	2.0	21.749	1	21	189	209	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGA	Clivagem
spe-miR162a-2-3p	Sopen05g025280.1	2.0	23.235	1	21	1824	1844	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGA	Clivagem
spe-miR162a-2-3p	Sopen11g011420.1	2.0	23.493	1	21	2022	2042	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGA	Clivagem
spe-miR162a-2-3p	Sopen12g027200.1	2.0	22.999	1	21	3621	3641	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGA	Clivagem
spe-miR162a-2-3p	Sopen07g013870.1	2.0	24.098	1	21	3762	3782	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGA	Clivagem
spe-miR162a-2-3p	Sopen10g001150.1	2.0	18.626	1	21	3073	3094	UCGAUAA-ACCUCUGCAUCCAG	CUGGAUGCAGAGGUUUUAUCGA	Clivagem
spe-miR162a-2-3p	Sopen01g018960.1	2.5	22.703	1	20	1207	1226	UCGAUAAACCUCUGCAUCCA	AGGAUGCAGAGGUUUUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen04g015700.1	3.0	15.881	1	20	2866	2885	UCGAUAAACCUCUGCAUCCA	UGGAUGCAGAGGUUUUAUAC	Clivagem
spe-miR162a-2-3p	Sopen05g019170.1	3.0	23.814	1	21	30	50	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGU	Clivagem
spe-miR162a-2-3p	Sopen05g013160.1	3.0	22.99	1	21	882	902	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen10g020850.1	3.0	23.323	1	21	894	914	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen01g018610.2	3.0	22.361	1	21	1008	1028	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen06g012090.1	3.0	23.193	1	21	795	815	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen08g011360.1	3.0	20.199	1	21	30	50	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen04g009510.1	3.0	21.422	1	21	1287	1307	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen04g008580.1	2.5	18.663	1	20	788	807	UCGAUAAACCUCUGCAUCCA	UGGAUGCAGAGGUUGAUUGG	Clivagem
spe-miR162a-2-3p	Sopen08g011520.1	3.0	22.833	1	21	1278	1298	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGU	Clivagem
spe-miR162a-2-3p	Sopen09g010030.1	3.0	23.092	1	21	1537	1557	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen01g019070.1	3.0	19.549	1	21	1578	1598	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen09g022310.1	3.0	23.823	1	21	1755	1775	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen09g021250.1	3.0	22.971	1	21	1533	1553	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen05g018310.1	3.0	20.232	1	21	1860	1880	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen12g018400.1	3.0	24.534	1	21	1749	1769	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen01g014920.1	3.0	23.935	1	21	2292	2312	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen09g010270.1	3.0	24.883	1	21	2463	2483	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen07g013350.1	3.0	18.864	1	21	2214	2234	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen10g019050.1	3.0	21.864	1	21	2268	2288	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen06g010320.1	3.0	23.158	1	21	1914	1934	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen04g013690.1	3.0	24.369	1	21	2473	2493	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen11g021750.1	3.0	20.243	1	21	2277	2297	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen08g010430.1	3.0	20.29	1	21	2220	2240	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen05g015900.1	3.0	20.348	1	21	2397	2417	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem

spe-miR162a-2-3p	Sopen07g012670.1	3.0	23.643	1	21	2505	2525	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen01g019730.1	3.0	23.646	1	21	792	812	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen10g021040.1	3.0	22.973	1	21	2673	2693	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen09g018110.1	3.0	19.604	1	21	1758	1778	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen10g015300.1	3.0	19.312	1	21	2610	2630	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen12g019640.1	3.0	19.708	1	21	2457	2477	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen06g010300.1	3.0	19.311	1	21	2052	2072	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen01g023620.1	3.0	22.52	1	21	2781	2801	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen01g014360.1	3.0	24.31	1	21	2799	2819	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen10g011300.1	3.0	18.269	1	21	2805	2825	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen08g015880.1	3.0	18.826	1	21	2190	2210	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen10g017700.1	2.5	22.321	1	21	2829	2849	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGUUUAUUGC	Tradução
spe-miR162a-2-3p	Sopen10g011520.1	3.0	22.604	1	21	2673	2693	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGU	Clivagem
spe-miR162a-2-3p	Sopen05g022360.1	3.0	23.027	1	21	2781	2801	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen09g021690.1	3.0	22.966	1	21	2802	2822	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen02g004730.1	3.0	24.003	1	21	2892	2912	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen07g021320.1	3.0	20.492	1	21	2844	2864	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen03g018150.1	3.0	19.095	1	21	3102	3122	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen07g011010.1	3.0	20.239	1	21	2934	2954	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen10g014520.1	3.0	19.059	1	21	1449	1469	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen01g017290.1	3.0	19.782	1	21	2910	2930	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen08g013390.1	3.0	19.675	1	21	3009	3029	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen06g013170.1	3.0	20.537	1	21	3279	3299	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen06g015490.1	3.0	23.663	1	21	2997	3017	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen11g016670.1	3.0	22.083	1	21	3078	3098	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen10g016760.1	3.0	24.609	1	21	2970	2990	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen07g007720.1	3.0	17.139	1	21	2988	3008	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen02g002060.1	3.0	23.867	1	21	3039	3059	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen12g008440.1	3.0	20.284	1	21	2880	2900	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen05g026590.1	3.0	20.798	1	21	3051	3071	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen06g006370.1	3.0	24.442	1	21	3177	3197	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen07g006790.1	3.0	23.323	1	21	3201	3221	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGU	Clivagem
spe-miR162a-2-3p	Sopen03g015490.1	3.0	24.128	1	21	3363	3383	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen05g021270.1	3.0	19.277	1	21	3375	3395	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGU	Clivagem
spe-miR162a-2-3p	Sopen01g026340.3	3.0	21.775	1	21	2538	2558	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem

spe-miR162a-2-3p	Sopen09g012910.1	3.0	23.536	1	21	3501	3521	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen05g014960.1	3.0	20.749	1	21	3225	3245	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen01g018760.1	3.0	24.834	1	21	3609	3629	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen01g018780.1	3.0	24.069	1	21	3288	3308	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen11g016970.1	3.0	24.475	1	21	3510	3530	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen07g008950.1	3.0	21.256	1	21	3453	3473	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen03g019810.1	3.0	19.517	1	21	3798	3818	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen01g018610.1	3.0	22.361	1	21	3696	3716	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen05g027810.1	3.0	23.498	1	21	3462	3482	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen03g008570.1	3.0	20.724	1	21	3735	3755	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen09g011720.1	3.0	22.572	1	21	3444	3464	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen06g010410.1	3.0	24.752	1	21	2931	2951	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen01g026340.2	3.0	21.775	1	21	2538	2558	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen08g012390.1	3.0	23.361	1	21	3960	3980	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen02g004530.1	3.0	23.346	1	21	3189	3209	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen01g026340.1	3.0	21.775	1	21	2538	2558	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen12g008790.1	3.0	24.252	1	21	4053	4073	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen12g009450.1	3.0	23.349	1	21	4194	4214	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen10g015130.1	3.0	23.423	1	21	4191	4211	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen12g020370.1	3.0	23.812	1	21	4851	4871	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen04g010070.1	3.0	23.192	1	21	4545	4565	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGU	Clivagem
spe-miR162a-2-3p	Sopen12g015370.1	3.0	22.097	1	21	2952	2972	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen04g017480.1	3.0	23.983	1	21	4740	4760	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen09g009180.1	3.0	21.389	1	21	3543	3563	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen05g011120.1	3.0	23.887	1	21	4656	4676	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen05g014680.1	3.0	19.888	1	21	1611	1631	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen05g014680.1	3.0	21.067	1	21	5412	5432	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen07g008130.1	3.0	24.114	1	21	3948	3968	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen06g012230.1	3.0	22.302	1	21	6018	6038	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen04g009510.2	3.0	21.422	1	21	5868	5888	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen08g007670.1	3.0	24.019	1	21	5649	5669	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen06g012610.1	3.0	22.056	1	21	3219	3239	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen11g011080.1	3.0	19.401	1	21	3333	3353	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen11g017160.1	3.0	21.983	1	21	7125	7145	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen03g013510.1	3.0	22.197	1	21	7779	7799	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem

spe-miR162a-2-3p	Sopen08g012200.1	3.0	23.317	1	21	7680	7700	UCGAUAAACCUCUGCAUCCAG	UUGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen04g011520.2	3.0	24.264	1	20	31	50	UCGAUAAACCUCUGCAUCCA	UGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen04g011520.1	3.0	23.12	1	20	2719	2738	UCGAUAAACCUCUGCAUCCA	UGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen04g017510.1	3.0	23.767	1	20	2701	2720	UCGAUAAACCUCUGCAUCCA	UGGAUGCAGAGGUCUAUUGC	Clivagem
spe-miR162a-2-3p	Sopen01g022920.1	3.0	23.786	1	21	669	689	UCGAUAAACCUCUGCAUCCAG	UUGGAUGAAGAGGUCUAUUGA	Clivagem
spe-miR162a-2-5p	Sopen11g015090.1	2.5	17.188	1	20	1834	1853	GGAGGCAGCGGUUCAUGAU	AGCGAUGGAUCGUUGCCUCC	Clivagem
spe-miR162a-2-5p	Sopen04g033060.2	3.0	18.362	1	21	300	320	GGAGGCAGCGGUUCAUGAUC	GAUCGAUCAAAACGCUGCCUUU	Tradução
spe-miR162a-2-5p	Sopen04g033060.1	3.0	15.44	1	21	300	320	GGAGGCAGCGGUUCAUGAUC	GAUCGAUCAAAACGCUGCCUUU	Tradução
spe-miR164-3p	Sopen05g022910.1	3.0	24.468	1	20	2144	2163	CAUGUGCUCUAGCUCUCCAG	GUGGAGAGCAAGAGUGCAUG	Tradução
spe-miR164-5p	Sopen07g034510.1	1.0	11.053	1	21	656	676	UGGAGAAGCAGGGCACAUGCU	AGCAAGUGCCCUGCUUCUCCA	Clivagem
spe-miR164-5p	Sopen07g031040.1	1.5	15.093	1	21	713	733	UGGAGAAGCAGGGCACAUGCU	AGCACGUGCCCUGUUUCUCCA	Clivagem
spe-miR164-5p	Sopen01g036340.1	1.5	23.786	1	20	1276	1295	UGGAGAAGCAGGGCACAUGC	GCAUGUGCCCAGCUUCUUCA	Tradução
spe-miR164-5p	Sopen01g036340.2	1.5	23.786	1	20	1273	1292	UGGAGAAGCAGGGCACAUGC	GCAUGUGCCCAGCUUCUUCA	Tradução
spe-miR164-5p	Sopen06g027010.1	3.0	6.966	1	20	624	643	UGGAGAAGCAGGGCACAUGC	CCACGUGCACUGCUUCUCCA	Clivagem
spe-miR164-5p	Sopen03g034840.1	3.0	12.333	1	20	615	634	UGGAGAAGCAGGGCACAUGC	CCACGUGCACUGCUUCUCCA	Clivagem
spe-miR164-5p	Sopen01g046980.1	3.0	16.482	1	20	161	180	UGGAGAAGCAGGGCACAUGC	GGAGGUGUCCUGCUUCUUCA	Clivagem
spe-miR164a-3p	Sopen09g031420.1	2.0	11.26	1	20	1	20	CAUGUGCCUGUUUUCGCCAU	AUGGGGAAAACAGGUAGAUG	Clivagem
spe-miR164a-3p	Sopen05g013480.1	3.0	21.699	1	21	1246	1266	CAUGUGCCUGUUUUCGCCAU	GAUCAGGAGAGCAGGCACAUG	Clivagem
spe-miR164a-3p	Sopen01g048320.1	3.0	13.029	1	20	326	345	CAUGUGCCUGUUUUCGCCAU	AUGAGGGAGACAGGUUAUUG	Clivagem
spe-miR164a-3p	Sopen01g032750.1	2.5	13.258	1	20	1564	1583	CAUGUGCCUGUUUUCGCCAU	AAGGGGAAAACAAGCAUAUG	Clivagem
spe-miR164a-3p	Sopen01g048290.1	3.0	15.711	1	20	170	189	CAUGUGCCUGUUUUCGCCAU	AUGCGGGAGACAGGUUAUUG	Clivagem
spe-miR164a-3p	Sopen03g037140.1	3.0	11.453	1	20	330	349	CAUGUGCCUGUUUUCGCCAU	AUGGGAGACACAGGCAUAUG	Clivagem
spe-miR164a-3p	Sopen05g006680.1	3.0	15.212	1	20	1809	1828	CAUGUGCCUGUUUUCGCCAU	AUGGGGAGAAGACGUACAUG	Tradução
spe-miR164a-5p	Sopen07g031040.1	0.5	15.093	1	20	714	733	UGGAGAAGCAGGGCACGUGC	GCACGUGCCCUGUUUCUCCA	Clivagem
spe-miR164a-5p	Sopen07g034510.1	1.0	11.053	1	20	657	676	UGGAGAAGCAGGGCACGUGC	GCAAGUGCCCUGCUUCUCCA	Clivagem
spe-miR164a-5p	Sopen01g036340.1	2.0	23.786	1	21	1275	1295	UGGAGAAGCAGGGCACGUGCA	UGCAUGUGCCCAGCUUCUUCA	Tradução
spe-miR164a-5p	Sopen01g036340.2	2.0	23.786	1	21	1272	1292	UGGAGAAGCAGGGCACGUGCA	UGCAUGUGCCCAGCUUCUUCA	Tradução
spe-miR164a-5p	Sopen06g027010.1	2.0	6.966	1	20	624	643	UGGAGAAGCAGGGCACGUGC	CCACGUGCACUGCUUCUCCA	Clivagem
spe-miR164a-5p	Sopen03g034840.1	2.0	12.333	1	20	615	634	UGGAGAAGCAGGGCACGUGC	CCACGUGCACUGCUUCUCCA	Clivagem
spe-miR164a-5p	Sopen11g025920.1	2.5	14.503	1	20	311	330	UGGAGAAGCAGGGCACGUGC	UCGCAUGCCCUGCUUCUCCA	Clivagem
spe-miR164a-5p	Sopen01g046980.1	3.0	16.482	1	21	160	180	UGGAGAAGCAGGGCACGUGCA	UGGAGGUGUCCUGCUUCUUCA	Clivagem
spe-miR164b-3p	Sopen10g009260.1	3.0	20.957	1	20	1433	1452	CACGUGUUCUCCUUCUCCAA	UUGGGGAAGGAAAACCCGUG	Tradução
spe-miR164b-3p	Sopen06g028460.1	3.0	11.604	1	20	275	294	CACGUGUUCUCCUUCUCCAA	UUGUAGAAGGGGACCACGUG	Clivagem
spe-miR164b-3p	Sopen07g034160.1	3.0	24.006	1	20	123	142	CACGUGUUCUCCUUCUCCAA	UCGGAGGGGGAGAAUAUGUG	Clivagem
spe-miR164b-5p	Sopen07g031040.1	0.5	15.093	1	20	714	733	UGGAGAAGCAGGGCACGUGC	GCACGUGCCCUGUUUCUCCA	Clivagem

spe-miR164b-5p	Sopen07g034510.1	1.0	11.053	1	20	657	676	UGGAGAAGCAGGGCACGUGC	GCAAGUGCCCUGCUUCUCCA	Clivagem
spe-miR164b-5p	Sopen01g036340.1	2.0	23.786	1	21	1275	1295	UGGAGAAGCAGGGCACGUGCA	UGCAUGUGCCCAGCUUCUUA	Tradução
spe-miR164b-5p	Sopen01g036340.2	2.0	23.786	1	21	1272	1292	UGGAGAAGCAGGGCACGUGCA	UGCAUGUGCCCAGCUUCUUA	Tradução
spe-miR164b-5p	Sopen06g027010.1	2.0	6.966	1	20	624	643	UGGAGAAGCAGGGCACGUGC	CCACGUGCACUGCUUCUCCA	Clivagem
spe-miR164b-5p	Sopen03g034840.1	2.0	12.333	1	20	615	634	UGGAGAAGCAGGGCACGUGC	CCACGUGCACUGCUUCUCCA	Clivagem
spe-miR164b-5p	Sopen11g025920.1	2.5	14.503	1	20	311	330	UGGAGAAGCAGGGCACGUGC	UCGCAUGCCCUGCUUCUCCA	Clivagem
spe-miR164b-5p	Sopen01g046980.1	3.0	16.482	1	21	160	180	UGGAGAAGCAGGGCACGUGCA	UGGAGGUGUCCUGCUUCUUA	Clivagem
spe-miR166-1-3p	Sopen03g039740.1	1.5	19.478	1	20	549	568	UCGGACCAGGCUUCAUUCUCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
spe-miR166-1-3p	Sopen12g022680.1	1.5	19.596	1	20	549	568	UCGGACCAGGCUUCAUUCUCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
spe-miR166-1-3p	Sopen02g018990.1	2.0	19.296	1	20	531	550	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166-1-3p	Sopen02g018990.2	2.0	19.296	1	20	534	553	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166-1-3p	Sopen11g028190.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166-1-3p	Sopen02g006800.1	2.0	21.092	1	20	573	592	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166-1-3p	Sopen09g033010.1	3.0	15.556	1	20	1572	1591	UCGGACCAGGCUUCAUUCUCC	GGGAAAGGAGCCUUGUCCGA	Clivagem
spe-miR166-1-5p	Sopen12g032200.1	3.0	16.934	1	21	701	721	AGAAUGUCGUCUGGUUCGAGA	UCUUGAACUAUACGAUGUUCU	Tradução
spe-miR166-1-5p	Sopen12g032200.2	3.0	16.934	1	21	728	748	AGAAUGUCGUCUGGUUCGAGA	UCUUGAACUAUACGAUGUUCU	Tradução
spe-miR166-1-5p	Sopen09g019910.1	2.5	20.777	1	20	1243	1262	AGAAUGUCGUCUGGUUCGAG	UUGGAAUCAGACGAUAUUCU	Clivagem
spe-miR166-1-5p	Sopen04g034200.1	3.0	19.358	1	20	427	446	AGAAUGUCGUCUGGUUCGAG	CUGGGACCAGAUGACAUUCA	Clivagem
spe-miR166-1-5p	Sopen07g034050.1	2.5	9.007	1	20	2944	2963	AGAAUGUCGUCUGGUUCGAG	CUCGAUCCAAUUGACAUUCU	Tradução
spe-miR166-2-3p	Sopen03g039740.1	1.5	19.478	1	20	549	568	UCGGACCAGGCUUCAUUCUCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
spe-miR166-2-3p	Sopen12g022680.1	1.5	19.596	1	20	549	568	UCGGACCAGGCUUCAUUCUCC	UGGAAUGAAGCCUGGUCCGG	Clivagem
spe-miR166-2-3p	Sopen02g018990.1	2.0	19.296	1	20	531	550	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166-2-3p	Sopen02g018990.2	2.0	19.296	1	20	534	553	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166-2-3p	Sopen11g028190.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166-2-3p	Sopen02g006800.1	2.0	21.092	1	20	573	592	UCGGACCAGGCUUCAUUCUCC	UGGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166-2-3p	Sopen09g033010.1	3.0	15.556	1	20	1572	1591	UCGGACCAGGCUUCAUUCUCC	GGGAAAGGAGCCUUGUCCGA	Clivagem
spe-miR166-2-5p	Sopen04g004220.1	2.0	15.585	1	21	2445	2465	GGAAUGUUGUUUGGCUCGAGG	UCUCAAGCCAAGCAACAUUCU	Clivagem
spe-miR166-2-5p	Sopen06g033300.1	2.5	14.052	1	21	2478	2498	GGAAUGUUGUUUGGCUCGAGG	UCUUAAGCCAAGCAACAUUCU	Clivagem
spe-miR166-2-5p	Sopen09g025580.1	2.5	18.087	1	21	825	845	GGAAUGUUGUUUGGCUCGAGG	UCUUGAGCUAAAAGACAUUCC	Tradução
spe-miR166-2-5p	Sopen08g002360.2	3.0	20.637	1	20	763	782	GGAAUGUUGUUUGGCUCGAG	AGCGAGCCAAACAAUGUUC	Clivagem
spe-miR166-2-5p	Sopen08g002360.1	3.0	20.637	1	20	778	797	GGAAUGUUGUUUGGCUCGAG	AGCGAGCCAAACAAUGUUC	Clivagem
spe-miR166-2-5p	Sopen07g034050.1	2.5	9.007	1	20	2944	2963	GGAAUGUUGUUUGGCUCGAG	CUCGAUCCAAUUGACAUUCU	Clivagem
spe-miR166-2-5p	Sopen04g020890.1	3.0	21.389	1	21	2379	2399	GGAAUGUUGUUUGGCUCGAGG	CGUCAAGUCAAAACAAUUCU	Clivagem
spe-miR166-2-5p	Sopen12g018730.1	2.5	12.805	1	21	4041	4061	GGAAUGUUGUUUGGCUCGAGG	UCUCAACCAAAUACAUUC	Clivagem
spe-miR166-2-5p	Sopen09g023690.1	3.0	18.271	1	21	5440	5460	GGAAUGUUGUUUGGCUCGAGG	UCUCAAGCUGAACACGUUCU	Clivagem

spe-miR166-2-5p	Sopen02g032990.1	3.0	12.934	1	21	1422	1442	GGAAUGUUGUUGGCUCGAGG	UCUUGAGCCCCAAAAUAUUC	Tradução
spe-miR166a-1-3p	Sopen03g039740.1	1.5	19.478	1	20	549	568	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-1-3p	Sopen12g022680.1	1.5	19.596	1	20	549	568	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-1-3p	Sopen02g018990.1	2.0	19.296	1	20	531	550	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-1-3p	Sopen02g018990.2	2.0	19.296	1	20	534	553	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-1-3p	Sopen11g028190.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-1-3p	Sopen02g006800.1	2.0	21.092	1	20	573	592	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-1-3p	Sopen09g033010.1	3.0	15.556	1	20	1572	1591	UCGGACCAGGCUUCAUUC	GGGAAAGGAGCCUUGUCCGA	Clivagem
spe-miR166a-2-3p	Sopen03g039740.1	1.5	19.478	1	20	549	568	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-2-3p	Sopen12g022680.1	1.5	19.596	1	20	549	568	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-2-3p	Sopen02g018990.1	2.0	19.296	1	20	531	550	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-2-3p	Sopen02g018990.2	2.0	19.296	1	20	534	553	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-2-3p	Sopen11g028190.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-2-3p	Sopen02g006800.1	2.0	21.092	1	20	573	592	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-2-3p	Sopen09g033010.1	3.0	15.556	1	20	1572	1591	UCGGACCAGGCUUCAUUC	GGGAAAGGAGCCUUGUCCGA	Clivagem
spe-miR166a-3-3p	Sopen03g039740.1	1.5	19.478	1	20	549	568	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-3-3p	Sopen12g022680.1	1.5	19.596	1	20	549	568	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-3-3p	Sopen02g018990.1	2.0	19.296	1	20	531	550	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-3-3p	Sopen02g018990.2	2.0	19.296	1	20	534	553	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-3-3p	Sopen11g028190.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-3-3p	Sopen02g006800.1	2.0	21.092	1	20	573	592	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166a-3-3p	Sopen09g033010.1	3.0	15.556	1	20	1572	1591	UCGGACCAGGCUUCAUUC	GGGAAAGGAGCCUUGUCCGA	Clivagem
spe-miR166a-3-5p	Sopen07g017540.1	3.0	15.666	1	21	585	605	GGAAUGUUGUCUGGCUCGAAG	UUUGGAUUCAGACAACAUUUC	Clivagem
spe-miR166a-3-5p	Sopen07g017540.2	3.0	15.666	1	21	1026	1046	GGAAUGUUGUCUGGCUCGAAG	UUUGGAUUCAGACAACAUUUC	Clivagem
spe-miR166c-3p	Sopen03g039740.1	1.5	19.478	1	20	549	568	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166c-3p	Sopen12g022680.1	1.5	19.596	1	20	549	568	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166c-3p	Sopen02g018990.1	2.0	19.296	1	20	531	550	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166c-3p	Sopen02g018990.2	2.0	19.296	1	20	534	553	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166c-3p	Sopen11g028190.1	2.0	23.445	1	20	561	580	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166c-3p	Sopen02g006800.1	2.0	21.092	1	20	573	592	UCGGACCAGGCUUCAUUC	UGGAUGAAGCCUGGUCCGG	Clivagem
spe-miR166c-3p	Sopen07g023950.1	2.5	20.135	1	20	1164	1183	UCGGACCAGGCUUCAUUC	AGGAUCAAGCCUGGUUCGA	Clivagem
spe-miR166c-3p	Sopen03g040450.1	3.0	14.69	1	20	663	681	UCGGACCAGGCUUCAUUC	AGGAUGAAGCUUGG-CCGA	Clivagem
spe-miR166c-3p	Sopen10g029370.1	3.0	19.779	1	20	22	40	UCGGACCAGGCUUCAUUC	AGGAUGGAGC-UGGUUCGA	Tradução
spe-miR166c-5p	Sopen12g019630.1	3.0	19.427	1	21	930	950	GGGAUGUUGUCUGGCUCGACA	UGUUGGGCCAGAUUAUCCU	Clivagem
spe-miR166c-5p	Sopen05g001920.1	3.0	19.929	1	21	810	830	GGGAUGUUGUCUGGCUCGACA	UGUUGAGACAGACAACAUUUU	Clivagem

spe-miR166c-5p	Sopen03g018670.1	3.0	24.448	1	20	1521	1540	GGGAUGUUGUCUGGCUCGAC	GUCGUGCCAGGUAAUAUCUC	Clivagem
spe-miR166c-5p	Sopen08g014940.1	3.0	22.106	1	20	3024	3043	GGGAUGUUGUCUGGCUCGAC	GUCGUGCCAGGUAAUAUCUC	Clivagem
spe-miR166c-5p	Sopen09g026060.1	3.0	20.595	1	20	1572	1591	GGGAUGUUGUCUGGCUCGAC	GUCGAGCUACAGAGCAUCCC	Tradução
spe-miR166c-5p	Sopen02g007910.1	3.0	12.984	1	20	64	83	GGGAUGUUGUCUGGCUCGAC	GUCAAGACCGACAACAUCCC	Clivagem
spe-miR167-1-3p	Sopen07g010340.1	2.5	19.004	1	20	43	62	GAUCAUGUGGCAGCAUCACC	GGAGAUGCUGCCAUUAUGGUU	Clivagem
spe-miR167-1-3p	Sopen02g004310.1	3.0	21.06	1	20	2100	2119	GAUCAUGUGGCAGCAUCACC	UGAGAUGUUGCCACAUGAUU	Clivagem
spe-miR167-1-3p	Sopen09g005560.1	3.0	18.734	1	20	2356	2375	GAUCAUGUGGCAGCAUCACC	GUUGAUGCUGCCAUUUUAUC	Clivagem
spe-miR167-1-3p	Sopen09g005560.2	3.0	18.734	1	20	2329	2348	GAUCAUGUGGCAGCAUCACC	GUUGAUGCUGCCAUUUUAUC	Clivagem
spe-miR167-1-3p	Sopen08g016090.1	3.0	20.538	1	20	337	356	GAUCAUGUGGCAGCAUCACC	GGAGAUGCUGCUAUUAUGGUU	Clivagem
spe-miR167-1-3p	Sopen12g019610.1	3.0	18.851	1	20	385	404	GAUCAUGUGGCAGCAUCACC	GGAGAUGCUGCUAUUAUGGUU	Clivagem
spe-miR167-1-5p	Sopen03g003720.1	3.0	19.799	1	21	704	724	UGAAGCUGCCAGCAUGAUCUA	UAGAUAAGCUGGAAGCUUUG	Clivagem
spe-miR167-1-5p	Sopen06g012940.1	3.0	20.335	1	20	836	855	UGAAGCUGCCAGCAUGAUCU	UGAUUCUGCUGGUAGCUUCA	Clivagem
spe-miR167-1-5p	Sopen04g029200.1	3.0	15.396	1	20	905	924	UGAAGCUGCCAGCAUGAUCU	AGAAUAUGCUGGUGGCCUUUA	Clivagem
spe-miR167-1-5p	Sopen04g030810.1	3.0	17.335	1	20	246	265	UGAAGCUGCCAGCAUGAUCU	AGAUAUGCUGUAGUUUUUG	Tradução
spe-miR167-1-5p	Sopen07g006340.1	3.0	19.79	1	20	227	246	UGAAGCUGCCAGCAUGAUCU	AGAUAUUGAGGCAGCUUCA	Tradução
spe-miR167-2-3p	Sopen03g030330.1	3.0	18.97	1	20	1368	1387	GAUCAUGUGGUUGCUUCACC	UGUGAAGCAUUCAUUAUGAUC	Tradução
spe-miR167-2-3p	Sopen03g025940.1	2.5	18.607	1	20	291	310	GAUCAUGUGGUUGCUUCACC	GGUGGAGCUACAACAUGAUC	Tradução
spe-miR167-2-3p	Sopen04g036130.1	3.0	12.46	1	20	1080	1099	GAUCAUGUGGUUGCUUCACC	UGUAAAGCAAACACAUGAUC	Tradução
spe-miR167-2-3p	Sopen01g013360.1	3.0	14.561	1	20	867	886	GAUCAUGUGGUUGCUUCACC	GAUGGACCAACUACAUGAUC	Clivagem
spe-miR167-2-5p	Sopen03g003720.1	3.0	19.799	1	21	704	724	UGAAGCUGCCAGCAUGAUCUA	UAGAUAAGCUGGAAGCUUUG	Clivagem
spe-miR167-2-5p	Sopen06g012940.1	3.0	20.335	1	20	836	855	UGAAGCUGCCAGCAUGAUCU	UGAUUCUGCUGGUAGCUUCA	Clivagem
spe-miR167-2-5p	Sopen04g029200.1	3.0	15.396	1	20	905	924	UGAAGCUGCCAGCAUGAUCU	AGAAUAUGCUGGUGGCCUUUA	Clivagem
spe-miR167-2-5p	Sopen04g030810.1	3.0	17.335	1	20	246	265	UGAAGCUGCCAGCAUGAUCU	AGAUAUGCUGUAGUUUUUG	Tradução
spe-miR167-2-5p	Sopen07g006340.1	3.0	19.79	1	20	227	246	UGAAGCUGCCAGCAUGAUCU	AGAUAUUGAGGCAGCUUCA	Tradução
spe-miR167-3-5p	Sopen03g003720.1	3.0	19.799	1	21	704	724	UGAAGCUGCCAGCAUGAUCUA	UAGAUAAGCUGGAAGCUUUG	Clivagem
spe-miR167-3-5p	Sopen06g012940.1	3.0	20.335	1	20	836	855	UGAAGCUGCCAGCAUGAUCU	UGAUUCUGCUGGUAGCUUCA	Clivagem
spe-miR167-3-5p	Sopen04g029200.1	3.0	15.396	1	20	905	924	UGAAGCUGCCAGCAUGAUCU	AGAAUAUGCUGGUGGCCUUUA	Clivagem
spe-miR167-3-5p	Sopen04g030810.1	3.0	17.335	1	20	246	265	UGAAGCUGCCAGCAUGAUCU	AGAUAUGCUGUAGUUUUUG	Tradução
spe-miR167-3-5p	Sopen07g006340.1	3.0	19.79	1	20	227	246	UGAAGCUGCCAGCAUGAUCU	AGAUAUUGAGGCAGCUUCA	Tradução
spe-miR167a-3p	Sopen10g009740.1	2.5	23.238	1	20	1927	1946	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCCAUUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g009090.1	2.5	21.571	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUACAUGGUU	Clivagem
spe-miR167a-3p	Sopen10g026500.1	3.0	21.555	1	20	3718	3737	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUUAUGGUU	Clivagem
spe-miR167a-3p	Sopen02g009050.1	3.0	23.771	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUUAUGGUU	Clivagem
spe-miR167a-3p	Sopen04g020870.2	3.0	23.782	1	20	370	389	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUUAUGGUU	Clivagem
spe-miR167a-3p	Sopen02g009520.1	3.0	22.517	1	20	193	212	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUUAUGGUU	Clivagem

spe-miR167a-3p	Sopen02g002140.1	3.0	23.661	1	20	514	533	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen10g010120.1	3.0	20.141	1	20	1957	1976	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g015530.1	3.0	23.77	1	20	547	566	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen06g010220.2	3.0	22.257	1	20	3124	3143	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g013200.1	3.0	24.514	1	20	370	389	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen02g009210.2	3.0	24.695	1	20	4651	4670	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen06g016950.1	3.0	24.599	1	20	397	416	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g014680.1	3.0	22.527	1	20	2371	2390	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen04g010950.1	3.0	22.595	1	20	514	533	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen02g009000.1	3.0	21.867	1	20	235	254	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g013340.1	3.0	19.372	1	20	742	761	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen06g009060.1	3.0	21.41	1	20	2890	2909	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen04g014900.1	3.0	19.873	1	20	154	173	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen04g011220.1	3.0	20.71	1	20	223	242	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen11g014250.1	3.0	23.821	1	20	1105	1124	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g016480.1	3.0	24.328	1	20	445	464	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen08g012110.1	3.0	24.527	1	20	622	641	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen03g020660.1	3.0	23.254	1	20	253	272	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g018700.1	3.0	20.56	1	20	694	713	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g019160.1	3.0	24.728	1	20	463	482	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g027810.1	3.0	20.624	1	20	1753	1772	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen10g017240.1	3.0	24.862	1	20	397	416	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen09g022250.1	3.0	22.499	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen12g027520.1	3.0	19.6	1	20	160	179	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen10g010100.1	3.0	22.962	1	20	2806	2825	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen06g005370.1	3.0	23.646	1	20	631	650	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen01g018760.1	3.0	23.231	1	20	391	410	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen04g014490.1	3.0	21.782	1	20	1147	1166	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen04g018390.1	3.0	23.576	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen08g010650.1	3.0	23.5	1	20	370	389	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen12g019450.1	3.0	23.675	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen02g007340.1	3.0	24.196	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen06g008250.1	3.0	23.594	1	20	391	410	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen04g022410.1	3.0	22.427	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g012110.1	3.0	17.546	1	20	220	239	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem

spe-miR167a-3p	Sopen12g010650.1	3.0	20.705	1	20	682	701	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g009080.1	3.0	21.823	1	20	361	380	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen12g011720.1	3.0	23.162	1	20	463	482	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen04g015720.1	3.0	23.562	1	20	640	659	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen06g015490.1	3.0	20.822	1	20	268	287	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen08g013960.1	3.0	23.895	1	20	223	242	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g021320.1	3.0	22.545	1	20	238	257	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen11g021890.1	3.0	22.841	1	20	844	863	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen10g012650.1	3.0	23.339	1	20	1285	1304	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUACGUGGUU	Clivagem
spe-miR167a-3p	Sopen06g006380.1	3.0	22.645	1	20	439	458	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen02g002230.1	3.0	24.91	1	20	220	239	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen04g018340.1	3.0	21.613	1	20	322	341	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen04g011220.2	3.0	20.71	1	20	223	242	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen06g008820.1	3.0	24.1	1	20	535	554	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g019220.1	3.0	22.977	1	20	361	380	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen08g013090.1	3.0	21.378	1	20	259	278	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen01g018360.1	3.0	24.702	1	20	553	572	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen11g018990.1	3.0	23.794	1	20	397	416	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen09g013680.1	3.0	21.417	1	20	235	254	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g015900.1	3.0	16.166	1	20	4	23	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen12g015030.1	3.0	21.858	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen01g018470.1	3.0	23.678	1	20	421	440	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen10g024170.1	3.0	23.235	1	20	250	269	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g015660.1	3.0	22.343	1	20	556	575	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen01g020210.1	3.0	20.687	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g006150.1	3.0	22.41	1	20	1303	1322	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g016260.1	3.0	24.69	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g025580.1	3.0	22.183	1	20	160	179	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g010690.1	3.0	24.85	1	20	475	494	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g021960.1	3.0	15.465	1	20	403	422	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen04g015860.1	3.0	24.933	1	20	688	707	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen01g033770.1	3.0	19.016	1	20	178	197	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen11g011550.1	3.0	19.889	1	20	361	380	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g007230.1	3.0	22.974	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g011550.1	3.0	21.885	1	20	397	416	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem

spe-miR167a-3p	Sopen11g014060.1	3.0	22.413	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g021490.1	3.0	23.054	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen06g011410.1	3.0	22.87	1	20	154	173	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen01g015560.1	3.0	22.333	1	20	562	581	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g008170.1	3.0	24.67	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen06g010270.1	3.0	22.106	1	20	361	380	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen01g010240.1	3.0	24.795	1	20	361	380	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen09g010290.1	3.0	23.143	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen11g023040.1	3.0	24.326	1	20	394	413	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g020430.1	3.0	24.018	1	20	1729	1748	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g020980.1	3.0	22.484	1	20	661	680	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g007890.1	3.0	24.736	1	20	181	200	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen07g010960.1	3.0	22.843	1	20	1297	1316	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen05g025900.1	3.0	23.3	1	20	541	560	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-3p	Sopen03g020650.1	3.0	23.822	1	20	469	488	GAUCAUGUGGCAGCCUCACC	GGAGAGGCUGCUAUAUGGUU	Clivagem
spe-miR167a-5p	Sopen03g003720.1	3.0	19.799	1	21	704	724	UGAAGCUGCCAGCAUGAUCUA	UAGAUAAGCUGGAAGCUUUG	Clivagem
spe-miR167a-5p	Sopen06g012940.1	3.0	20.335	1	20	836	855	UGAAGCUGCCAGCAUGAUCU	UGAUUCUGCUGGUAGCUUCA	Clivagem
spe-miR167a-5p	Sopen04g029200.1	3.0	15.396	1	20	905	924	UGAAGCUGCCAGCAUGAUCU	AGAAUAUGCUGGUGGCUUUA	Clivagem
spe-miR167a-5p	Sopen04g030810.1	3.0	17.335	1	20	246	265	UGAAGCUGCCAGCAUGAUCU	AGAUAUCGUAGUAGUUUUG	Tradução
spe-miR167a-5p	Sopen07g006340.1	3.0	19.79	1	20	227	246	UGAAGCUGCCAGCAUGAUCU	AGAUAUUGAGGCAGCUUCA	Tradução
spe-miR167h-3p	Sopen07g034760.1	3.0	17.386	1	21	1323	1343	AUCAUGCUGGCAGCUUCAACU	AGUUGGAGUGGCUAGCGUGAU	Clivagem
spe-miR168a-3p	Sopen01g035540.1	3.0	21.549	1	21	2375	2395	CCUGCCUUGCAUCAACUGAAU	AGUCGGUUGAUGCAAGUCAGG	Clivagem
spe-miR168a-3p	Sopen05g011450.1	3.0	17.309	1	20	521	540	CCUGCCUUGCAUCAACUGAA	UCCAGUUCAUGCAAGGCAGU	Clivagem
spe-miR168a-5p	Sopen03g028990.1	2.5	19.306	1	20	612	631	UCGCUUGGUGCAGGUCGGGA	UCCCGAGCUGCACCAAGCAA	Clivagem
spe-miR168a-5p	Sopen06g028670.1	2.5	23.686	1	20	336	355	UCGCUUGGUGCAGGUCGGGA	UCCCGAGCUGCACCAAGCAA	Clivagem
spe-miR168a-5p	Sopen05g024890.1	3.0	17.379	1	20	156	176	UCGCUUGGUGCAGG-UCGGGA	UCCCGAUCCUACACCAAGCGA	Tradução
spe-miR168a-5p	Sopen00g001810.1	3.0	20.892	1	19	1876	1895	UCGCUUGGUGCAGG-UCGGG	CCCGAUCCUCCACCAAGCGA	Tradução
spe-miR168b-3p	Sopen06g033090.1	3.0	23.261	1	20	873	892	CCCGCCUUGCAUCAACUGAA	UUCAGUUGAUGCAGGGCGAU	Clivagem
spe-miR168b-3p	Sopen02g006370.1	3.0	21.959	1	20	318	337	CCCGCCUUGCAUCAACUGAA	UUUAGUUGUUGCAAGGUGGU	Clivagem
spe-miR168b-3p	Sopen03g011150.1	3.0	23.861	1	20	180	199	CCCGCCUUGCAUCAACUGAA	UUUAGGUGAUGCUAGGUGGG	Clivagem
spe-miR168b-5p	Sopen03g028990.1	2.5	19.306	1	20	612	631	UCGCUUGGUGCAGGUCGGGA	UCCCGAGCUGCACCAAGCAA	Clivagem
spe-miR168b-5p	Sopen06g028670.1	2.5	23.686	1	20	336	355	UCGCUUGGUGCAGGUCGGGA	UCCCGAGCUGCACCAAGCAA	Clivagem
spe-miR168b-5p	Sopen05g024890.1	3.0	17.379	1	20	156	176	UCGCUUGGUGCAGG-UCGGGA	UCCCGAUCCUACACCAAGCGA	Tradução
spe-miR168b-5p	Sopen00g001810.1	3.0	20.892	1	19	1876	1895	UCGCUUGGUGCAGG-UCGGG	CCCGAUCCUCCACCAAGCGA	Tradução
spe-miR169-1-3p	Sopen05g031520.1	3.0	23.85	1	22	530	551	CCGGCAAGUUGUUUUUGGCUAU	GUAGCCAAGGACAAGUUGUUGG	Clivagem

spe-miR169-1-3p	Sopen01g037910.1	3.0	15.109	1	21	60	80	CCGGCAAGUUGUUUUUGGCUA	UAGCCAGAAAAACUUGCUGC	Tradução
spe-miR169-1-3p	Sopen12g017580.1	3.0	14.337	1	20	384	403	CCGGCAAGUUGUUUUUGGCU	CGCCGAAAACAACUUGCCAG	Clivagem
spe-miR169-1-3p	Sopen01g037810.1	2.5	15.751	1	20	9	28	CCGGCAAGUUGUUUUUGGCU	AGCUAAAAGCGAAUUGCCGG	Clivagem
spe-miR169-1-3p	Sopen01g030750.1	3.0	15.665	1	20	1552	1571	CCGGCAAGUUGUUUUUGGCU	AGCCAAAAUCAACUUCUGG	Clivagem
spe-miR169-1-3p	Sopen02g030400.1	3.0	13.469	1	20	1032	1052	CCGGCAAGUUGUU-UUUGGCU	GGCCAAGGAACAACUUGCUGG	Clivagem
spe-miR169-1-3p	Sopen01g033440.1	3.0	16.754	1	20	226	244	CCGGCAAGUUGUUUUUGGCU	AGUCAAAAACAA-UUGUCGG	Clivagem
spe-miR169-1-5p	Sopen02g010830.1	2.5	20.016	1	20	2894	2913	CAGCCAAGGAUGACUUGCCG	CCGCAAGACAUUUUGGCUG	Clivagem
spe-miR169-1-5p	Sopen02g010310.1	2.5	24.327	1	20	3054	3073	CAGCCAAGGAUGACUUGCCG	CCGCAAGACAUUUUGGCUG	Clivagem
spe-miR169-1-5p	Sopen08g024380.1	3.0	20.941	1	20	333	352	CAGCCAAGGAUGACUUGCCG	CCGCAAGUUUUUAUUGGCUG	Clivagem
spe-miR169-1-5p	Sopen09g029840.1	3.0	13.598	1	20	2906	2925	CAGCCAAGGAUGACUUGCCG	UGGCAAGUGAUUUUUGGCUG	Clivagem
spe-miR169-2-5p	Sopen06g026220.1	3.0	22.05	1	20	645	664	UAGCCAAGGAUGACUUGCCU	UCGCAAGGCAUCCUUGGCUA	Clivagem
spe-miR169-2-5p	Sopen12g002010.1	3.0	13.293	1	21	677	697	UAGCCAAGGAUGACUUGCCUA	UAGGUUAGACAACUUGGCUA	Tradução
spe-miR169-3-3p	Sopen09g021180.1	3.0	19.604	1	21	1295	1315	GCAGGUCAUCUUUAGCUAACU	AGUUCCCUUGAGGAUGACCUGC	Clivagem
spe-miR169-3-3p	Sopen05g002290.1	3.0	14.716	1	21	236	256	GCAGGUCAUCUUUAGCUAACU	GGCUUGGUUAAAGAUACCUGC	Clivagem
spe-miR169-4-3p	Sopen09g021180.1	3.0	19.604	1	21	1295	1315	GCAGGUCAUCUUUAGCUAACU	AGUUCCCUUGAGGAUGACCUGC	Clivagem
spe-miR169-4-3p	Sopen05g002290.1	3.0	14.716	1	21	236	256	GCAGGUCAUCUUUAGCUAACU	GGCUUGGUUAAAGAUACCUGC	Clivagem
spe-miR169-4-5p	Sopen06g026220.1	3.0	22.05	1	20	645	664	UAGCCAAGGAUGACUUGCCU	UCGCAAGGCAUCCUUGGCUA	Clivagem
spe-miR169-4-5p	Sopen12g002010.1	3.0	13.293	1	21	677	697	UAGCCAAGGAUGACUUGCCUG	UAGGUUAGACAACUUGGCUA	Tradução
spe-miR169-5-3p	Sopen01g040400.1	3.0	18.798	1	20	581	600	GGCAAGUGGUCCUUGGCUAC	GUAGACAAGGAUCCCUUGCC	Clivagem
spe-miR169-5-3p	Sopen01g040400.2	3.0	18.798	1	20	2501	2520	GGCAAGUGGUCCUUGGCUAC	GUAGACAAGGAUCCCUUGCC	Clivagem
spe-miR169-5-5p	Sopen02g010830.1	2.5	20.016	1	20	2894	2913	CAGCCAAGGAUGACUUGCCG	CCGCAAGACAUUUUGGCUG	Clivagem
spe-miR169-5-5p	Sopen02g010310.1	2.5	24.327	1	20	3054	3073	CAGCCAAGGAUGACUUGCCG	CCGCAAGACAUUUUGGCUG	Clivagem
spe-miR169-5-5p	Sopen08g024380.1	3.0	20.941	1	20	333	352	CAGCCAAGGAUGACUUGCCG	CCGCAAGUUUUUAUUGGCUG	Clivagem
spe-miR169-5-5p	Sopen09g029840.1	3.0	13.598	1	20	2906	2925	CAGCCAAGGAUGACUUGCCG	UGGCAAGUGAUUUUUGGCUG	Clivagem
spe-miR169a-1-3p	Sopen09g004720.1	2.5	14.761	1	20	674	693	GGCAAGUUGUUCUUGGCUAU	AUGGCCAAGAAGAAUUUGUC	Tradução
spe-miR169a-1-3p	Sopen09g034510.2	3.0	16.42	1	21	868	888	GGCAAGUUGUUCUUGGCUAUA	UAUAGGCAAGAAGAAUUUGCU	Tradução
spe-miR169a-1-3p	Sopen09g034510.1	3.0	16.42	1	21	865	885	GGCAAGUUGUUCUUGGCUAUA	UAUAGGCAAGAAGAAUUUGCU	Tradução
spe-miR169a-1-3p	Sopen06g031640.1	3.0	10.883	1	20	1229	1248	GGCAAGUUGUUCUUGGCUAU	AUGGACAAGGACAAUUUGCU	Clivagem
spe-miR169a-1-3p	Sopen09g033070.1	3.0	19.154	1	20	542	561	GGCAAGUUGUUCUUGGCUAU	AUGGACAAGAACGACUUGUU	Clivagem
spe-miR169a-1-3p	Sopen02g021640.1	3.0	9.513	1	20	1405	1424	GGCAAGUUGUUCUUGGCUAU	AUGGCCAAGUACAACUUACC	Tradução
spe-miR169a-1-3p	Sopen04g030460.1	3.0	16.622	1	20	154	173	GGCAAGUUGUUCUUGGCUAU	AAGGCUAAGAACAACUUUGUC	Clivagem
spe-miR169a-1-5p	Sopen02g010830.1	2.5	20.016	1	20	2894	2913	CAGCCAAGGAUGACUUGCCG	CCGCAAGACAUUUUGGCUG	Clivagem
spe-miR169a-1-5p	Sopen02g010310.1	2.5	24.327	1	20	3054	3073	CAGCCAAGGAUGACUUGCCG	CCGCAAGACAUUUUGGCUG	Clivagem
spe-miR169a-1-5p	Sopen08g024380.1	3.0	20.941	1	20	333	352	CAGCCAAGGAUGACUUGCCG	CCGCAAGUUUUUAUUGGCUG	Clivagem
spe-miR169a-1-5p	Sopen09g029840.1	3.0	13.598	1	20	2906	2925	CAGCCAAGGAUGACUUGCCG	UGGCAAGUGAUUUUUGGCUG	Clivagem

spe-miR169a-2-5p	Sopen02g010830.1	2.5	20.016	1	20	2894	2913	CAGCCAAGGAUGACUUGCCG	CCGCAAGACAUCUUUGGCUG	Clivagem
spe-miR169a-2-5p	Sopen02g010310.1	2.5	24.327	1	20	3054	3073	CAGCCAAGGAUGACUUGCCG	CCGCAAGACAUCUUUGGCUG	Clivagem
spe-miR169a-2-5p	Sopen08g024380.1	3.0	20.941	1	20	333	352	CAGCCAAGGAUGACUUGCCG	CCGCAAGUUAUUUAUUGGCUG	Clivagem
spe-miR169a-2-5p	Sopen09g029840.1	3.0	13.598	1	20	2906	2925	CAGCCAAGGAUGACUUGCCG	UGGCAAGUGAUUAUUGGCUG	Clivagem
spe-miR169c-5p	Sopen02g010830.1	2.5	20.016	1	20	2894	2913	CAGCCAAGGAUGACUUGCCG	CCGCAAGACAUCUUUGGCUG	Clivagem
spe-miR169c-5p	Sopen02g010310.1	2.5	24.327	1	20	3054	3073	CAGCCAAGGAUGACUUGCCG	CCGCAAGACAUCUUUGGCUG	Clivagem
spe-miR169c-5p	Sopen08g024380.1	3.0	20.941	1	20	333	352	CAGCCAAGGAUGACUUGCCG	CCGCAAGUUAUUUAUUGGCUG	Clivagem
spe-miR169c-5p	Sopen09g029840.1	3.0	13.598	1	20	2906	2925	CAGCCAAGGAUGACUUGCCG	UGGCAAGUGAUUAUUGGCUG	Clivagem
spe-miR169e-3p	Sopen06g033960.1	2.5	10.328	1	21	2459	2479	UGGCAAGCAUCUUUGGCGACU	AGUUUAUCAAAGAUGCUUGUCA	Clivagem
spe-miR169e-3p	Sopen12g019050.1	2.5	21.926	1	20	1012	1031	UGGCAAGCAUCUUUGGCGAC	GUUGCUGAAGGUGCUUGCCG	Clivagem
spe-miR169e-3p	Sopen06g025900.1	3.0	20.942	1	21	177	197	UGGCAAGCAUCUUUGGCGACU	AGUUGCCAAAGGUCCUUGCUG	Clivagem
spe-miR169e-3p	Sopen12g010190.1	3.0	22.63	1	21	903	923	UGGCAAGCAUCUUUGGCGACU	GGUUGCCAAGGAUGGUUGCUA	Clivagem
spe-miR169e-3p	Sopen06g009510.1	3.0	16.79	1	21	1263	1283	UGGCAAGCAUCUUUGGCGACU	AGUCGUCAAAGGUUUUUGUCA	Clivagem
spe-miR169e-3p	Sopen03g041740.1	3.0	18.566	1	21	1519	1539	UGGCAAGCAUCUUUGGCGACU	AGUGGUGAAAGAUGCUUGCCG	Clivagem
spe-miR169e-3p	Sopen03g034070.1	3.0	13.677	1	19	93	112	UGGCAAGCAU-CUUUGGCGA	UCGUCAAAGUAUGCUUGCUA	Tradução
spe-miR169e-5p	Sopen06g026220.1	3.0	22.05	1	20	645	664	UAGCCAAGGAUGACUUGCCU	UCGCAAGGCAUCCUUGGCUA	Clivagem
spe-miR169e-5p	Sopen12g002010.1	3.0	13.293	1	22	676	697	UAGCCAAGGAUGACUUGCCUUU	AUAGGUAAGACAACUUUGGCUA	Tradução
spe-miR171-1-3p	Sopen08g027270.1	2.0	18.525	1	21	1077	1097	UAAUUGAGCCGUGCCAAUAUC	GAUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171-1-3p	Sopen01g036680.1	2.0	21.062	1	21	1287	1307	UAAUUGAGCCGUGCCAAUAUC	GAUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171-1-3p	Sopen09g005820.1	2.5	17.423	1	20	583	602	UAAUUGAGCCGUGCCAAUAU	AUAUUGGCAUGGGUUGAUUA	Clivagem
spe-miR171-1-5p	Sopen03g004550.1	3.0	23.906	1	21	128	148	AGAUUAUUGGUGCGGUUCAUU	AAUUGGAGCGCGUCAAUUGUCU	Clivagem
spe-miR171-1-5p	Sopen11g024620.1	2.5	24.927	1	21	238	258	AGAUUAUUGGUGCGGUUCAUU	GAUGGAACUGCAGCAUAUAUCU	Tradução
spe-miR171-2-3p	Sopen01g036680.1	0.0	21.062	1	20	1288	1307	UGAUUGAGCCGCGCCAAUAU	AUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171-2-3p	Sopen08g027270.1	0.0	18.525	1	20	1078	1097	UGAUUGAGCCGCGCCAAUAU	AUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171-2-3p	Sopen05g023420.1	3.0	21.929	1	20	35	54	UGAUUGAGCCGCGCCAAUAU	AUAUUGGCGUGGCUAAUUCU	Clivagem
spe-miR171-2-3p	Sopen02g001660.1	3.0	17.329	1	20	335	354	UGAUUGAGCCGCGCCAAUAU	AUGUUGUGGUGGCUCAAUCA	Clivagem
spe-miR171-2-3p	Sopen02g030270.1	3.0	18.109	1	20	586	605	UGAUUGAGCCGCGCCAAUAU	AUACUGGCACGCCUCAAUCA	Tradução
spe-miR171-2-5p	Sopen03g040550.1	2.5	14.523	1	21	731	751	UAUUGGUGCGGUUCAUUGAGA	UUUCAUUGAAUUGCACUAAUG	Clivagem
spe-miR171-2-5p	Sopen10g015270.1	3.0	15.194	1	20	795	814	UAUUGGUGCGGUUCAUUGAG	UUUAUUGGACUGUACCAAUG	Clivagem
spe-miR171-2-5p	Sopen03g021950.1	3.0	18.962	1	20	460	479	UAUUGGUGCGGUUCAUUGAG	CUUGUUGAAUCGCACCAAGA	Clivagem
spe-miR171-2-5p	Sopen07g024510.1	3.0	18.009	1	20	435	454	UAUUGGUGCGGUUCAUUGAG	CUCGUUGAACUUCACCGAUG	Tradução
spe-miR171-2-5p	Sopen12g018860.1	3.0	18.899	1	20	317	336	UAUUGGUGCGGUUCAUUGAG	CUUAUUGCAUGGCACCAAUA	Tradução
spe-miR171-2-5p	Sopen12g014050.2	3.0	17.969	1	20	1605	1624	UAUUGGUGCGGUUCAUUGAG	CUAUUUGAAGCGCACCAAUA	Tradução
spe-miR171-2-5p	Sopen12g014050.3	3.0	17.969	1	20	858	877	UAUUGGUGCGGUUCAUUGAG	CUAUUUGAAGCGCACCAAUA	Tradução
spe-miR171-3-3p	Sopen08g003030.1	2.5	12.604	1	21	535	555	UAAUUGAACCAGCACCAUAUC	GAUAUUCUGCGGUUCAUUG	Clivagem

spe-miR171-3-5p	Sopen03g015010.1	3.0	22.99	1	20	1609	1628	GAUUAUUGGCACGGCUCAAUU	AAUGGAGAUGUGCCAGUAUC	Clivagem
spe-miR171-3p	Sopen08g027270.1	0.5	18.525	1	21	1077	1097	UGAUUUGAGCCGUGCCAAUAUC	GAUUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171-3p	Sopen01g036680.1	0.5	21.062	1	21	1287	1307	UGAUUUGAGCCGUGCCAAUAUC	GAUUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171-3p	Sopen02g030270.1	2.0	18.109	1	21	585	605	UGAUUUGAGCCGUGCCAAUAUC	GAUACUGGCACGCCUCAAUCA	Tradução
spe-miR171-3p	Sopen08g030180.1	2.5	19.248	1	20	3464	3483	UGAUUUGAGCCGUGCCAAUAU	AUAUUGGCAUGGCUCUAUCG	Clivagem
spe-miR171-3p	Sopen09g005820.1	3.0	17.423	1	20	583	602	UGAUUUGAGCCGUGCCAAUAU	AUAUUGGCAUGGGUUGAUUA	Clivagem
spe-miR171-4-3p	Sopen01g036680.1	1.0	20.723	1	21	1284	1304	UUGAGCCGCGUCAAUUUCUCU	AGGGAUUAUUGGCGCGGCUCAA	Clivagem
spe-miR171-4-3p	Sopen08g027270.1	2.5	16.529	1	20	1075	1094	UUGAGCCGCGUCAAUUUCUC	AUGAUUAUUGGCGCGGCUCAA	Clivagem
spe-miR171-4-3p	Sopen11g008200.1	3.0	24.304	1	21	381	401	UUGAGCCGCGUCAAUUUCUCU	AGUGAUUAUUGGUUCGGCUCAA	Tradução
spe-miR171-4-3p	Sopen04g014060.1	3.0	23.227	1	21	31	51	UUGAGCCGCGUCAAUUUCUCU	AGUGAUUUGUUCGUGGCUCAA	Tradução
spe-miR171-4-3p	Sopen07g024130.1	2.5	17.769	1	20	46	65	UUGAGCCGCGUCAAUUUCUC	GAGAUUAUUGAAGAGGCUCGA	Tradução
spe-miR171-4-3p	Sopen12g011110.1	3.0	18.349	1	21	1245	1265	UUGAGCCGCGUCAAUUUCUCU	GGAGGUUAUUGAAGAGGUUCAA	Tradução
spe-miR171-4-5p	Sopen11g024620.1	2.5	24.927	1	21	238	258	AGAUUAUUGAUGCGGUUCAUC	GAUGGAACUGCAGCAAUUUCU	Tradução
spe-miR171-4-5p	Sopen03g004550.1	2.5	23.906	1	20	129	148	AGAUUAUUGAUGCGGUUCAU	AUUGGAGCGCGUCAAUUGUCU	Clivagem
spe-miR171-4-5p	Sopen04g019740.1	3.0	19.526	1	20	118	137	AGAUUAUUGAUGCGGUUCAU	AUGGAACCACGUCAAUUAUU	Clivagem
spe-miR171-5-3p	Sopen08g027270.1	0.5	18.525	1	21	1077	1097	UGAUUUGAGCCGUGCCAAUAUC	GAUUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171-5-3p	Sopen01g036680.1	0.5	21.062	1	21	1287	1307	UGAUUUGAGCCGUGCCAAUAUC	GAUUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171-5-3p	Sopen02g030270.1	2.0	18.109	1	21	585	605	UGAUUUGAGCCGUGCCAAUAUC	GAUACUGGCACGCCUCAAUCA	Tradução
spe-miR171-5-3p	Sopen08g030180.1	2.5	19.248	1	20	3464	3483	UGAUUUGAGCCGUGCCAAUAU	AUAUUGGCAUGGCUCUAUCG	Clivagem
spe-miR171-5-3p	Sopen09g005820.1	3.0	17.423	1	20	583	602	UGAUUUGAGCCGUGCCAAUAU	AUAUUGGCAUGGGUUGAUUA	Clivagem
spe-miR171-5p	Sopen05g001140.1	3.0	12.239	1	21	4792	4812	UGGGAUGUUGGUGUGGUUCAA	UUGGACAACAUAACAUAUUCA	Clivagem
spe-miR171-5p	Sopen08g016830.1	3.0	9.389	1	20	431	450	UGGGAUGUUGGUGUGGUUCA	AGAACCACACUGGCAUCUCA	Clivagem
spe-miR171-5p	Sopen01g032170.1	2.5	15.784	1	20	821	840	UGGGAUGUUGGUGUGGUUCA	UUAACUACACCAACAUUUCA	Clivagem
spe-miR171-5p	Sopen10g013210.1	3.0	15.114	1	20	1841	1860	UGGGAUGUUGGUGUGGUUCA	UGAACAACACUAGCAUCCCU	Clivagem
spe-miR171-5p	Sopen11g027150.1	3.0	19.197	1	20	764	783	UGGGAUGUUGGUGUGGUUCA	UGGGCCACACAGACAUUCCA	Tradução
spe-miR171-6-3p	Sopen08g027270.1	1.0	18.525	1	21	1077	1097	UGAUUUGAGCCGUGUCAAUUUC	GAUUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171-6-3p	Sopen01g036680.1	1.0	21.062	1	21	1287	1307	UGAUUUGAGCCGUGUCAAUUUC	GAUUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171-6-3p	Sopen02g030270.1	2.5	18.109	1	21	585	605	UGAUUUGAGCCGUGUCAAUUUC	GAUACUGGCACGCCUCAAUCA	Tradução
spe-miR171-6-3p	Sopen01g029300.1	2.5	21.155	1	20	596	615	UGAUUUGAGCCGUGUCAAUUUC	UUCUUGACAUGGCUCAAUCA	Clivagem
spe-miR171-6-3p	Sopen11g015160.1	3.0	16.395	1	20	4172	4191	UGAUUUGAGCCGUGUCAAUUUC	GUUAUUGAUUUGGCUCAAUUU	Clivagem
spe-miR171-6-3p	Sopen08g030180.1	3.0	19.248	1	20	3464	3483	UGAUUUGAGCCGUGUCAAUUUC	AUAUUGGCAUGGCUCUAUCG	Clivagem
spe-miR171-6-3p	Sopen01g038760.1	3.0	18.702	1	21	346	366	UGAUUUGAGCCGUGUCAAUUUC	GAUGUUAAAAUGGCUCAAUCA	Clivagem
spe-miR171-7-3p	Sopen11g008200.1	1.0	24.304	1	20	382	401	GUGAGCCGAACCAUAUUCAC	GUGAUUAUUGGUUCGGCUCAA	Clivagem
spe-miR171-7-3p	Sopen08g022810.1	2.5	21.349	1	20	1817	1836	GUGAGCCGAACCAUAUUCAC	GUGAUGUUGGUUUGGCUCGG	Clivagem
spe-miR171-7-3p	Sopen11g016480.1	2.5	14.686	1	20	329	348	GUGAGCCGAACCAUAUUCAC	AUGAUGUUGGUUCGGUUCAU	Clivagem

spe-miR171-7-3p	Sopen07g031990.1	3.0	8.117	1	20	284	303	GUGAGCCGAACCAUAUCAC	UCGAUAUUGGUUUGGCUCAU	Clivagem
spe-miR171-7-3p	Sopen07g028130.1	3.0	23.689	1	20	341	360	GUGAGCCGAACCAUAUCAC	CUGAUUAUUGGUCCGGCUCGU	Tradução
spe-miR171-7-3p	Sopen08g008920.1	3.0	19.761	1	21	1468	1488	GUGAGCCGAACCAUAUCACG	UGUGAAUUGGUUUCGGUUCAU	Clivagem
spe-miR171-7-3p	Sopen05g018610.1	3.0	14.664	1	20	1997	2016	GUGAGCCGAACCAUAUCAC	GUGAAUUUGGUUUCGGUUCAU	Clivagem
spe-miR171-7-3p	Sopen01g022310.1	3.0	15.784	1	20	1376	1395	GUGAGCCGAACCAUAUCAC	GUGAUUUUGCUUCGGUUCAU	Tradução
spe-miR171-7-5p	Sopen01g051050.1	3.0	17.694	1	21	522	542	AGUGAUUAUUGGUUCGGCUCAU	GUUAGCAGAACUGAUUAUCACU	Clivagem
spe-miR171-7-5p	Sopen09g031280.1	3.0	19.31	1	22	1303	1323	AGUGAUUAUUGGUUCGGCUCAU	GUUGAGCCGAAUUA-UAUCACU	Clivagem
spe-miR171a-3p	Sopen08g027270.1	0.5	18.525	1	20	1078	1097	UGAUUGAGCCGUGCCAAUAU	AUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171a-3p	Sopen01g036680.1	0.5	21.062	1	20	1288	1307	UGAUUGAGCCGUGCCAAUAU	AUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171a-3p	Sopen08g030180.1	2.5	19.248	1	20	3464	3483	UGAUUGAGCCGUGCCAAUAU	AUAUUGGCAUGGCUCUAUCG	Clivagem
spe-miR171a-3p	Sopen02g030270.1	2.0	18.109	1	20	586	605	UGAUUGAGCCGUGCCAAUAU	AUACUGGCACGCCUCAAUCA	Tradução
spe-miR171a-3p	Sopen09g005820.1	3.0	17.423	1	20	583	602	UGAUUGAGCCGUGCCAAUAU	AUAUUGGCAUGGGUUGAUUA	Clivagem
spe-miR171e-1-3p	Sopen01g036680.1	1.0	21.062	1	21	1287	1307	AGAUUGAGCCGCGCCAAUAUC	GAUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171e-1-3p	Sopen08g027270.1	1.0	18.525	1	21	1077	1097	AGAUUGAGCCGCGCCAAUAUC	GAUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171e-1-3p	Sopen05g023420.1	2.0	21.929	1	21	34	54	AGAUUGAGCCGCGCCAAUAUC	GAUAUUGGCGUGGCUAAAUCU	Clivagem
spe-miR171e-1-3p	Sopen07g034070.1	2.5	24.904	1	21	2398	2418	AGAUUGAGCCGCGCCAAUAUC	GAUCUUGGCGCAGCUCGAUCU	Tradução
spe-miR171e-1-3p	Sopen06g001160.1	3.0	7.741	1	20	14	33	AGAUUGAGCCGCGCCAAUAU	AUAUGGGUGCUGCUCAAUUU	Tradução
spe-miR171e-1-5p	Sopen01g001870.1	2.0	13.251	1	20	903	922	CGAUGUUGGUGAGGUUCAU	AUGGAAUCUCACCAACAUUG	Clivagem
spe-miR171e-1-5p	Sopen09g031140.1	2.5	16.524	1	20	231	250	CGAUGUUGGUGAGGUUCAU	AUUGGACCUCACCGAUGUUG	Clivagem
spe-miR171e-1-5p	Sopen03g007730.1	3.0	17.139	1	21	130	150	CGAUGUUGGUGAGGUUCAU	GAUUAUCUUCACCGACAUCG	Clivagem
spe-miR171e-1-5p	Sopen08g020590.1	3.0	17.096	1	20	407	426	CGAUGUUGGUGAGGUUCAU	AUUCAACUUCAUCAACAUCA	Clivagem
spe-miR171e-1-5p	Sopen10g005400.1	3.0	13.085	1	20	3700	3719	CGAUGUUGGUGAGGUUCAU	AUUGAAGCUCACCAAAAUUG	Clivagem
spe-miR171e-1-5p	Sopen01g001730.1	3.0	16.775	1	20	924	943	CGAUGUUGGUGAGGUUCAU	AUGGAAUCUCACCAACAUAG	Clivagem
spe-miR171e-1-5p	Sopen08g015960.1	3.0	18.044	1	20	975	994	CGAUGUUGGUGAGGUUCAU	AUUGAACAUCAGUGACAUCG	Tradução
spe-miR171e-2-3p	Sopen01g036680.1	1.0	21.062	1	21	1287	1307	AGAUUGAGCCGCGCCAAUAUC	GAUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171e-2-3p	Sopen08g027270.1	1.0	18.525	1	21	1077	1097	AGAUUGAGCCGCGCCAAUAUC	GAUAUUGGCGCGGCUCAAUCA	Clivagem
spe-miR171e-2-3p	Sopen05g023420.1	2.0	21.929	1	21	34	54	AGAUUGAGCCGCGCCAAUAUC	GAUAUUGGCGUGGCUAAAUCU	Clivagem
spe-miR171e-2-3p	Sopen07g034070.1	2.5	24.904	1	21	2398	2418	AGAUUGAGCCGCGCCAAUAUC	GAUCUUGGCGCAGCUCGAUCU	Tradução
spe-miR171e-2-3p	Sopen06g001160.1	3.0	7.741	1	20	14	33	AGAUUGAGCCGCGCCAAUAU	AUAUGGGUGCUGCUCAAUUU	Tradução
spe-miR171e-2-5p	Sopen01g001870.1	2.0	13.251	1	20	903	922	CGAUGUUGGUGAGGUUCAU	AUGGAAUCUCACCAACAUUG	Clivagem
spe-miR171e-2-5p	Sopen09g031140.1	2.5	16.524	1	20	231	250	CGAUGUUGGUGAGGUUCAU	AUUGGACCUCACCGAUGUUG	Clivagem
spe-miR171e-2-5p	Sopen03g007730.1	3.0	17.139	1	21	130	150	CGAUGUUGGUGAGGUUCAU	GAUUAUCUUCACCGACAUCG	Clivagem
spe-miR171e-2-5p	Sopen08g020590.1	3.0	17.096	1	20	407	426	CGAUGUUGGUGAGGUUCAU	AUUCAACUUCAUCAACAUCA	Clivagem
spe-miR171e-2-5p	Sopen10g005400.1	3.0	13.085	1	20	3700	3719	CGAUGUUGGUGAGGUUCAU	AUUGAAGCUCACCAAAAUUG	Clivagem
spe-miR171e-2-5p	Sopen01g001730.1	3.0	16.775	1	20	924	943	CGAUGUUGGUGAGGUUCAU	AUGGAAUCUCACCAACAUAG	Clivagem

spe-miR171e-2-5p	Sopen08g015960.1	3.0	18.044	1	20	975	994	CGAUGUUGGUGAGGUUCAU	AUUGAACAUCAUGAGACAUCG	Tradução
spe-miR172-1-3p	Sopen11g030250.1	0.5	13.096	1	20	1332	1351	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-1-3p	Sopen11g030250.2	0.5	13.096	1	20	1287	1306	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-1-3p	Sopen04g020090.1	0.5	11.188	1	20	1104	1123	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-1-3p	Sopen02g037720.1	1.5	16.019	1	20	1440	1459	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUCC	Clivagem
spe-miR172-1-3p	Sopen02g015090.1	1.5	16.771	1	20	1431	1450	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUCC	Clivagem
spe-miR172-1-3p	Sopen03g008400.3	1.5	17.579	1	20	1344	1363	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUCC	Clivagem
spe-miR172-1-3p	Sopen06g031890.1	1.5	12.791	1	20	1299	1318	AGAAUCUUGAUGAUGCUGCA	GGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-1-3p	Sopen09g002150.1	1.5	10.959	1	20	1278	1297	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-1-3p	Sopen03g008400.2	1.5	17.579	1	20	1332	1351	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUCC	Clivagem
spe-miR172-1-3p	Sopen09g002130.1	1.5	10.959	1	20	1275	1294	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-1-3p	Sopen10g033790.1	1.5	13.636	1	20	1242	1261	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-1-3p	Sopen06g031890.2	1.5	12.791	1	20	1254	1273	AGAAUCUUGAUGAUGCUGCA	GGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-1-3p	Sopen09g002130.2	1.5	10.959	1	20	1230	1249	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-1-3p	Sopen03g008400.1	1.5	18.47	1	20	1128	1147	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUCC	Clivagem
spe-miR172-1-3p	Sopen10g002630.2	2.5	17.691	1	21	1864	1884	AGAAUCUUGAUGAUGCUGCAU	AUGUACCUUCAUCAAGAUUCU	Clivagem
spe-miR172-1-3p	Sopen07g031900.1	2.5	18.332	1	21	1816	1836	AGAAUCUUGAUGAUGCUGCAU	AUGUAUCUUCAUCAAGAUUCU	Clivagem
spe-miR172-1-3p	Sopen10g002630.3	2.5	17.691	1	21	1258	1278	AGAAUCUUGAUGAUGCUGCAU	AUGUACCUUCAUCAAGAUUCU	Clivagem
spe-miR172-1-3p	Sopen03g037820.1	3.0	9.958	1	21	1345	1365	AGAAUCUUGAUGAUGCUGCAU	AUGCAGCAAGUUCAAGAUUCU	Tradução
spe-miR172-1-3p	Sopen11g006420.1	3.0	17.08	1	21	1126	1145	AGAAUCUUGAUGAUGCUGCAU	AUGCAGC-UUAUCAAGAUUUU	Clivagem
spe-miR172-1-3p	Sopen04g020260.1	3.0	21.984	1	21	256	275	AGAAUCUUGAUGAUGCUGCAU	AUGCAGC-UUAUCAAGGUUCU	Clivagem
spe-miR172-1-3p	Sopen06g034240.1	3.0	15.528	1	21	1403	1422	AGAAUCUUGAUGAUGCUGCAU	GUGCAGC-UCGUCAAGAUUUU	Clivagem
spe-miR172-1-5p	Sopen10g032510.1	1.5	19.135	1	20	1924	1943	GUAGCAUCAUCAAGAUUCAU	GUGAGUCUUGAUGAUGCUAU	Clivagem
spe-miR172-1-5p	Sopen07g019560.1	2.0	8.797	1	20	772	791	GUAGCAUCAUCAAGAUUCAU	AUGAAUUUUGAUGAUGUUGU	Clivagem
spe-miR172-1-5p	Sopen10g017470.1	2.5	19.139	1	21	876	896	GUAGCAUCAUCAAGAUUCAU	UGUGAGUCUUGAUGAUGCUAU	Clivagem
spe-miR172-1-5p	Sopen00g003020.1	2.5	11.522	1	20	1	20	GUAGCAUCAUCAAGAUUCAU	AUGAAUUUUGAUGAAGCUAU	Clivagem
spe-miR172-1-5p	Sopen02g022280.1	3.0	11.595	1	21	228	248	GUAGCAUCAUCAAGAUUCAU	UAAGAGUUUUGAUGAUGUUGC	Clivagem
spe-miR172-1-5p	Sopen11g011480.1	2.5	19.314	1	21	582	602	GUAGCAUCAUCAAGAUUCAU	UAUGUAUCUUGGUAAUGCUAC	Clivagem
spe-miR172-1-5p	Sopen08g026540.1	3.0	16.489	1	20	376	395	GUAGCAUCAUCAAGAUUCAU	AUGAAUUUUGAUGAUUUUAU	Clivagem
spe-miR172-1-5p	Sopen08g019040.1	3.0	19.384	1	20	274	293	GUAGCAUCAUCAAGAUUCAU	AUGAGUCUUGAUGAUCCUGU	Clivagem
spe-miR172-1-5p	Sopen09g029230.1	3.0	14.275	1	20	784	803	GUAGCAUCAUCAAGAUUCAU	AUGAAUCUUGGUGAUGAUGU	Clivagem
spe-miR172-1-5p	Sopen05g014030.1	3.0	13.19	1	20	598	617	GUAGCAUCAUCAAGAUUCAU	AUGAAUUUUGAUGAAGCUGU	Clivagem
spe-miR172-1-5p	Sopen10g023950.1	3.0	8.758	1	20	226	245	GUAGCAUCAUCAAGAUUCAU	AUGAAUUUUGAUGAAGCUGU	Clivagem
spe-miR172-1-5p	Sopen06g021350.1	3.0	12.74	1	21	738	758	GUAGCAUCAUCAAGAUUCAU	UAUUGAACUUGAUGAUUAC	Clivagem
spe-miR172-1-5p	Sopen08g002930.1	3.0	14.512	1	21	735	755	GUAGCAUCAUCAAGAUUCAU	UAUUGAGCUUGAUGAUUAC	Clivagem

spe-miR172-1-5p	Sopen06g021350.2	3.0	12.74	1	21	735	755	GUAGCAUCAUCAAGAUUCAUA	UAUUGAACUUGAUGAUUUAC	Clivagem
spe-miR172-1-5p	Sopen09g024810.1	3.0	21.684	1	21	99	119	GUAGCAUCAUCAAGAUUCAUA	UAUGGAUAUUGAUUAUGCUAU	Clivagem
spe-miR172-1-5p	Sopen11g011620.1	3.0	24.941	1	21	99	119	GUAGCAUCAUCAAGAUUCAUA	UAUGGAUAUUGAUUAUGCUAU	Clivagem
spe-miR172-1-5p	Sopen09g034430.1	3.0	14.147	1	21	135	155	GUAGCAUCAUCAAGAUUCAUA	UAUGGUUCUUGAAGAUGUUAC	Tradução
spe-miR172-1-5p	Sopen07g017110.1	3.0	20.425	1	20	112	131	GUAGCAUCAUCAAGAUUCAU	AAGAAUCUUGAUGGUGUUAG	Clivagem
spe-miR172-1-5p	Sopen06g010250.1	3.0	19.116	1	20	583	602	GUAGCAUCAUCAAGAUUCAU	AUGAGUUUUUAUGAUGCUAG	Tradução
spe-miR172-1-5p	Sopen02g034360.1	3.0	11.915	1	20	181	200	GUAGCAUCAUCAAGAUUCAU	AUCAUUUUUGAUGAUUUAA	Clivagem
spe-miR172-1-5p	Sopen02g023500.1	2.5	19.508	1	20	501	520	GUAGCAUCAUCAAGAUUCAU	AAGAAUCUUGAAGAUGCUGC	Tradução
spe-miR172-1-5p	Sopen05g001590.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen04g018150.1	3.0	21.993	1	21	5547	5567	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen10g021340.1	3.0	22.819	1	21	3291	3311	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen07g022000.1	3.0	21.993	1	21	4038	4058	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen09g007350.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen04g026730.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen08g029640.1	3.0	21.993	1	21	3861	3881	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen07g028380.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen10g021220.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen12g020430.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen07g033180.2	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen09g027600.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen06g003740.1	3.0	22.039	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen06g025370.2	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen02g030500.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen12g023100.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen04g023800.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen02g017660.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen09g010790.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen11g026270.2	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen06g021220.2	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen06g020490.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen05g006720.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen01g005920.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen03g036760.2	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen07g032760.2	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen09g007940.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução

spe-miR172-1-5p	Sopen09g015720.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen06g029030.2	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen05g014110.1	3.0	24.329	1	21	3767	3787	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen01g001570.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen05g026210.1	3.0	18.934	1	21	3627	3647	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen10g006660.1	3.0	21.993	1	21	3768	3788	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen10g010780.1	3.0	21.993	1	21	3291	3311	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen06g019790.1	3.0	21.993	1	21	3291	3311	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen02g010090.1	3.0	21.993	1	21	3009	3029	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen09g031920.1	3.0	21.993	1	21	3009	3029	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen05g008440.1	3.0	21.669	1	21	3291	3311	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen11g026270.1	3.0	21.993	1	21	2820	2840	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen06g021220.1	3.0	21.993	1	21	2820	2840	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen07g032760.1	3.0	21.993	1	21	2820	2840	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen02g030500.2	3.0	21.993	1	21	2820	2840	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen04g025720.1	3.0	21.106	1	21	2820	2840	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen07g033180.1	3.0	21.993	1	21	2820	2840	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen08g008670.1	3.0	24.378	1	21	2820	2840	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen10g023800.2	3.0	21.993	1	21	2820	2840	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen11g016080.1	3.0	22.09	1	21	2619	2639	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen07g020050.1	3.0	21.993	1	21	2487	2507	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen01g011960.1	3.0	13.409	1	21	2283	2303	GUAGCAUCAUCAAGAUUCAUA	UAUUUAUCUUGAAGAUGCUAC	Tradução
spe-miR172-1-5p	Sopen02g003080.1	3.0	21.993	1	21	2304	2324	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen08g018170.2	3.0	21.225	1	21	2313	2333	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen10g023800.1	3.0	21.993	1	21	2022	2042	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen05g025330.1	3.0	21.993	1	21	1815	1835	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen09g031920.2	3.0	21.993	1	21	1815	1835	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen09g030360.1	3.0	22.039	1	21	1725	1745	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen07g004880.1	3.0	21.993	1	21	2022	2042	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen07g012530.1	3.0	24.445	1	21	1311	1331	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen03g024570.1	3.0	19.815	1	21	1533	1553	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen03g024570.2	3.0	19.815	1	21	1374	1394	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen08g016220.1	3.0	17.499	1	21	1707	1727	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen05g016150.1	3.0	19.589	1	21	1215	1235	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGUUAUGCUAC	Tradução
spe-miR172-1-5p	Sopen06g025370.1	3.0	21.993	1	21	672	692	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUGAAUGCUAC	Tradução

spe-miR172-1-5p	Sopen04g008860.1	3.0	22.039	1	21	672	692	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen03g018110.1	3.0	22.039	1	21	606	626	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen02g022980.1	3.0	21.993	1	21	531	551	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen02g030500.3	3.0	21.993	1	21	531	551	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen11g010530.1	3.0	21.993	1	21	444	464	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-1-5p	Sopen12g023100.2	3.0	21.993	1	21	138	158	GUAGCAUCAUCAAGAUUCAUA	UAUGUAUCUUGCUAAUGCUAC	Tradução
spe-miR172-2-3p	Sopen09g002150.1	2.0	10.959	1	20	1278	1297	UGAAUCUUGAUGAUGCUACA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-2-3p	Sopen09g002130.1	2.0	10.959	1	20	1275	1294	UGAAUCUUGAUGAUGCUACA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-2-3p	Sopen10g033790.1	2.0	13.636	1	20	1242	1261	UGAAUCUUGAUGAUGCUACA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-2-3p	Sopen09g002130.2	2.0	10.959	1	20	1230	1249	UGAAUCUUGAUGAUGCUACA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-2-3p	Sopen09g022750.1	3.0	14.176	1	20	178	197	UGAAUCUUGAUGAUGCUACA	AUUAGUAUUUAUCAAGAUUCA	Clivagem
spe-miR172-2-3p	Sopen03g030690.1	3.0	14.702	1	20	2799	2818	UGAAUCUUGAUGAUGCUACA	AGUAGUGUUUAUCAAGAUUUA	Clivagem
spe-miR172-2-3p	Sopen02g037720.1	2.5	16.019	1	20	1440	1459	UGAAUCUUGAUGAUGCUACA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-2-3p	Sopen02g015090.1	2.5	16.771	1	20	1431	1450	UGAAUCUUGAUGAUGCUACA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-2-3p	Sopen11g030250.1	2.5	13.096	1	20	1332	1351	UGAAUCUUGAUGAUGCUACA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-2-3p	Sopen11g030250.2	2.5	13.096	1	20	1287	1306	UGAAUCUUGAUGAUGCUACA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-2-3p	Sopen03g008400.3	2.5	17.579	1	20	1344	1363	UGAAUCUUGAUGAUGCUACA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-2-3p	Sopen03g008400.2	2.5	17.579	1	20	1332	1351	UGAAUCUUGAUGAUGCUACA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-2-3p	Sopen03g008400.1	2.5	18.47	1	20	1128	1147	UGAAUCUUGAUGAUGCUACA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-2-3p	Sopen04g020090.1	2.5	11.188	1	20	1104	1123	UGAAUCUUGAUGAUGCUACA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-2-3p	Sopen03g002770.1	2.0	20.597	1	20	1958	1977	UGAAUCUUGAUGAUGCUACA	UGUAUCUUAUCAAGAUUCA	Clivagem
spe-miR172-2-3p	Sopen10g002630.2	3.0	17.691	1	21	1864	1884	UGAAUCUUGAUGAUGCUACA	AUGUACCUUCAUCAAGAUUCU	Clivagem
spe-miR172-2-3p	Sopen07g031900.1	3.0	18.332	1	21	1816	1836	UGAAUCUUGAUGAUGCUACA	AUGUAUCUUAUCAAGAUUCU	Clivagem
spe-miR172-2-3p	Sopen10g002630.3	3.0	17.691	1	21	1258	1278	UGAAUCUUGAUGAUGCUACA	AUGUACCUUCAUCAAGAUUCU	Clivagem
spe-miR172-2-3p	Sopen11g011780.1	3.0	16.65	1	20	315	334	UGAAUCUUGAUGAUGCUACA	AGUAGCUUAUUAAGGUUCA	Clivagem
spe-miR172-2-3p	Sopen07g020390.1	3.0	23.565	1	20	2271	2290	UGAAUCUUGAUGAUGCUACA	UGGAGUAUCAUCAAGAUCCA	Clivagem
spe-miR172-2-3p	Sopen03g040970.1	3.0	16.005	1	20	549	568	UGAAUCUUGAUGAUGCUACA	UGUUUCGUUAUCAAGAUUCA	Clivagem
spe-miR172-2-3p	Sopen02g023520.1	3.0	12.425	1	21	854	873	UGAAUCUUGAUGAUGCUACA	AUGUAGCAGC-UCAAGAUUCA	Tradução
spe-miR172-2-3p	Sopen02g024410.1	3.0	14.336	1	20	1946	1965	UGAAUCUUGAUGAUGCUACA	UAUACCUUCAUCAAGAUUCA	Clivagem
spe-miR172-2-5p	Sopen09g003390.1	1.5	18.208	1	21	450	470	GCAGCAUCAUCAAGAUUCUCA	UGAGAAUCUCGAUGAUGUUGC	Clivagem
spe-miR172-2-5p	Sopen09g023370.1	2.0	12.047	1	21	4383	4403	GCAGCAUCAUCAAGAUUCUCA	UGAGAGUGUUGAUGAUGUUGC	Clivagem
spe-miR172-2-5p	Sopen09g005740.1	2.0	18.314	1	20	820	839	GCAGCAUCAUCAAGAUUCUC	GGGAAUUUUGAUGAUGCUGA	Clivagem
spe-miR172-2-5p	Sopen02g022280.1	2.5	11.595	1	21	228	248	GCAGCAUCAUCAAGAUUCUCA	UAAGAGUUUUGAUGAUGUUGC	Clivagem
spe-miR172-2-5p	Sopen02g023500.1	2.0	19.508	1	20	501	520	GCAGCAUCAUCAAGAUUCUC	AAGAAUCUUGAAGAUUCUGC	Tradução
spe-miR172-2-5p	Sopen04g005270.1	2.5	22.819	1	20	400	419	GCAGCAUCAUCAAGAUUCUC	GAGGGUCUUGGUGAUGUUGU	Clivagem

spe-miR172-2-5p	Sopen09g014560.1	3.0	21.089	1	21	4362	4382	GCAGCAUCAUCAAGAUUCUCA	UGAGAAUCUUGCUGAUACUGU	Tradução
spe-miR172-2-5p	Sopen09g015100.1	3.0	17.159	1	21	663	683	GCAGCAUCAUCAAGAUUCUCA	UGAGAUUCUUGAUGCUGUUGC	Clivagem
spe-miR172-2-5p	Sopen07g010610.1	3.0	15.455	1	21	597	617	GCAGCAUCAUCAAGAUUCUCA	UGAGAUUCUUGAUGCUGUUGC	Clivagem
spe-miR172-2-5p	Sopen10g010360.1	2.5	22.091	1	21	690	710	GCAGCAUCAUCAAGAUUCUCA	UGAGAACCCUGGUGAUGCUGC	Clivagem
spe-miR172-2-5p	Sopen10g002480.1	2.5	14.956	1	21	555	575	GCAGCAUCAUCAAGAUUCUCA	UGAGAAGCUUGAAGAUGCUGU	Tradução
spe-miR172-2-5p	Sopen01g002960.1	3.0	24.484	1	20	1009	1028	GCAGCAUCAUCAAGAUUCUC	GAGAGUCUUGGUGAUACUGU	Clivagem
spe-miR172-2-5p	Sopen07g022890.1	2.5	22.434	1	20	193	212	GCAGCAUCAUCAAGAUUCUC	GAGAAUCUCGAUGAAGCUGC	Clivagem
spe-miR172-2-5p	Sopen10g031740.3	2.5	20.936	1	20	304	323	GCAGCAUCAUCAAGAUUCUC	GAGAGUUUAGAUGGUGCUGC	Clivagem
spe-miR172-2-5p	Sopen10g031740.1	2.5	20.936	1	20	304	323	GCAGCAUCAUCAAGAUUCUC	GAGAGUUUAGAUGGUGCUGC	Clivagem
spe-miR172-2-5p	Sopen10g031740.2	2.5	23.503	1	20	283	302	GCAGCAUCAUCAAGAUUCUC	GAGAGUUUAGAUGGUGCUGC	Clivagem
spe-miR172-2-5p	Sopen11g004580.1	3.0	15.058	1	21	639	659	GCAGCAUCAUCAAGAUUCUCA	UGAGGACUUUGAGGAUGCUGC	Tradução
spe-miR172-2-5p	Sopen11g025370.1	3.0	21.477	1	21	1251	1271	GCAGCAUCAUCAAGAUUCUCA	UGAUGAGCUUGAUGAUUUGC	Clivagem
spe-miR172-2-5p	Sopen07g019360.1	3.0	20.615	1	21	837	857	GCAGCAUCAUCAAGAUUCUCA	UGAGAGUGAUGAUGAUUUGC	Clivagem
spe-miR172-2-5p	Sopen03g018880.1	3.0	24.343	1	21	72	92	GCAGCAUCAUCAAGAUUCUCA	UGAGAAUUUUGAGAAUGUUGC	Tradução
spe-miR172-2-5p	Sopen06g013970.1	2.5	17.04	1	20	2626	2645	GCAGCAUCAUCAAGAUUCUC	GAGAAUAUUGGUAAUGCUGC	Clivagem
spe-miR172-2-5p	Sopen02g035770.2	3.0	18.732	1	20	2710	2729	GCAGCAUCAUCAAGAUUCUC	GGUGAUCUUGGUGAUGUUGC	Clivagem
spe-miR172-2-5p	Sopen02g035770.1	3.0	18.732	1	20	2710	2729	GCAGCAUCAUCAAGAUUCUC	GGUGAUCUUGGUGAUGUUGC	Clivagem
spe-miR172-2-5p	Sopen04g003250.1	3.0	11.632	1	20	2923	2942	GCAGCAUCAUCAAGAUUCUC	GAGAAUCUUUAUGAAGCUGU	Tradução
spe-miR172-2-5p	Sopen07g029380.1	3.0	15.247	1	20	1042	1061	GCAGCAUCAUCAAGAUUCUC	GAGGACCUUGAUGAGGCUGC	Clivagem
spe-miR172-2-5p	Sopen02g038920.1	3.0	20.594	1	20	1891	1910	GCAGCAUCAUCAAGAUUCUC	GAGGAUUUUGCUGGUGCUGU	Tradução
spe-miR172-2-5p	Sopen08g031200.1	3.0	16.407	1	20	1489	1508	GCAGCAUCAUCAAGAUUCUC	GGGAGUCUAGGUGAUGCUGU	Clivagem
spe-miR172-2-5p	Sopen05g020750.1	3.0	19.462	1	20	568	587	GCAGCAUCAUCAAGAUUCUC	GAGAACCUUGAUGAGGCUGU	Clivagem
spe-miR172-2-5p	Sopen11g004870.1	3.0	20.522	1	20	322	341	GCAGCAUCAUCAAGAUUCUC	GAGAAGCUUGGUGAGGCUGC	Clivagem
spe-miR172-2-5p	Sopen05g027750.1	2.5	17.438	1	20	442	461	GCAGCAUCAUCAAGAUUCUC	GGUAAUCUUGUUGAUGCUGC	Tradução
spe-miR172-3-3p	Sopen02g037720.1	0.5	16.019	1	20	1440	1459	GGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-3-3p	Sopen02g015090.1	0.5	16.771	1	20	1431	1450	GGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-3-3p	Sopen03g008400.3	0.5	17.579	1	20	1344	1363	GGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-3-3p	Sopen03g008400.2	0.5	17.579	1	20	1332	1351	GGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-3-3p	Sopen03g008400.1	0.5	18.47	1	20	1128	1147	GGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-3-3p	Sopen11g030250.1	1.0	13.096	1	20	1332	1351	GGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-3-3p	Sopen11g030250.2	1.0	13.096	1	20	1287	1306	GGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-3-3p	Sopen04g020090.1	1.0	11.188	1	20	1104	1123	GGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-3-3p	Sopen09g002150.1	1.5	10.959	1	20	1278	1297	GGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-3-3p	Sopen09g002130.1	1.5	10.959	1	20	1275	1294	GGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-3-3p	Sopen10g033790.1	1.5	13.636	1	20	1242	1261	GGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem

spe-miR172-3-3p	Sopen09g002130.2	1.5	10.959	1	20	1230	1249	GGAACUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-3-3p	Sopen06g031890.1	2.0	12.791	1	20	1299	1318	GGAACUUGAUGAUGCUGCA	GGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-3-3p	Sopen06g031890.2	2.0	12.791	1	20	1254	1273	GGAACUUGAUGAUGCUGCA	GGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-3-3p	Sopen10g002630.2	3.0	17.691	1	21	1864	1884	GGAACUUGAUGAUGCUGCAU	AUGUACCUUCAUCAAGAUUCU	Clivagem
spe-miR172-3-3p	Sopen07g031900.1	3.0	18.332	1	21	1816	1836	GGAACUUGAUGAUGCUGCAU	AUGUAUCUUCAUCAAGAUUCU	Clivagem
spe-miR172-3-3p	Sopen10g002630.3	3.0	17.691	1	21	1258	1278	GGAACUUGAUGAUGCUGCAU	AUGUACCUUCAUCAAGAUUCU	Clivagem
spe-miR172-3-3p	Sopen12g005650.1	3.0	18.668	1	21	26	46	GGAACUUGAUGAUGCUGCAU	GUGAAGCUUUUCAAGAUUUC	Clivagem
spe-miR172-3-3p	Sopen11g002960.1	3.0	12.142	1	20	131	150	GGAACUUGAUGAUGCUGCA	UGAAUCAUCUUCAAGAUUCC	Tradução
spe-miR172-3-5p	Sopen07g019560.1	2.0	8.797	1	20	772	791	GCAACAUCAUCAAGAUUCAC	AUGAAUUUUGAUGAUGUUGU	Clivagem
spe-miR172-3-5p	Sopen09g003390.1	2.0	18.208	1	21	450	470	GCAACAUCAUCAAGAUUCACA	UGAGAAUCUCGAUGAUGUUGC	Clivagem
spe-miR172-3-5p	Sopen04g004840.1	2.5	19.744	1	20	520	539	GCAACAUCAUCAAGAUUCAC	GUGGAUUUUGAUGGUGUUGA	Clivagem
spe-miR172-3-5p	Sopen09g023370.1	2.5	12.047	1	21	4383	4403	GCAACAUCAUCAAGAUUCACA	UGAGAGUGUUGAUGAUGUUGC	Clivagem
spe-miR172-3-5p	Sopen07g026900.1	2.5	19.453	1	21	681	701	GCAACAUCAUCAAGAUUCACA	UGUGACAUUUGAUGAUGUUGC	Clivagem
spe-miR172-3-5p	Sopen02g022280.1	3.0	11.595	1	20	229	248	GCAACAUCAUCAAGAUUCAC	AAGAGUUUUGAUGAUGUUGC	Clivagem
spe-miR172-3-5p	Sopen09g029770.2	2.5	13.752	1	20	1087	1106	GCAACAUCAUCAAGAUUCAC	UUGAAUCUUGAUAAUGUUGU	Clivagem
spe-miR172-3-5p	Sopen09g029770.1	2.5	13.752	1	20	1036	1055	GCAACAUCAUCAAGAUUCAC	UUGAAUCUUGAUAAUGUUGU	Clivagem
spe-miR172-3-5p	Sopen06g006330.1	2.5	14.077	1	20	22	41	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUAGUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen07g027400.1	3.0	8.741	1	21	1419	1439	GCAACAUCAUCAAGAUUCACA	UGUGAAUGAUGAUGAUGUUGA	Clivagem
spe-miR172-3-5p	Sopen01g022830.1	3.0	17.724	1	21	42	62	GCAACAUCAUCAAGAUUCACA	UGUGGCUCUUGAUAAUGUUGU	Clivagem
spe-miR172-3-5p	Sopen04g005270.1	3.0	22.819	1	20	400	419	GCAACAUCAUCAAGAUUCAC	GAGGGUCUUGGUGAUGUUGU	Clivagem
spe-miR172-3-5p	Sopen03g019160.1	2.5	14.758	1	20	442	461	GCAACAUCAUCAAGAUUCAC	GUGAUUCUUGCUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen04g034680.1	3.0	20.985	1	20	742	761	GCAACAUCAUCAAGAUUCAC	GUGAAUUUUGUUGAUCUUGC	Tradução
spe-miR172-3-5p	Sopen04g027220.1	2.5	15.122	1	20	859	878	GCAACAUCAUCAAGAUUCAC	GUGAAUGUUGAAGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen04g035870.1	2.5	20.164	1	20	751	770	GCAACAUCAUCAAGAUUCAC	GUGACUUUUGCUGAUGUUGC	Tradução
spe-miR172-3-5p	Sopen01g023190.1	3.0	13.812	1	21	675	695	GCAACAUCAUCAAGAUUCACA	UGUACUGUUGAUGAUGUUGC	Clivagem
spe-miR172-3-5p	Sopen02g014570.1	3.0	21.059	1	21	204	224	GCAACAUCAUCAAGAUUCACA	UCUGCAUCUUUAUGAUGUUGC	Tradução
spe-miR172-3-5p	Sopen02g014570.2	3.0	21.059	1	21	135	155	GCAACAUCAUCAAGAUUCACA	UCUGCAUCUUUAUGAUGUUGC	Tradução
spe-miR172-3-5p	Sopen06g007690.1	3.0	24.188	1	20	1648	1667	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen06g012230.1	3.0	15.99	1	20	22	41	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen05g026280.1	3.0	20.995	1	20	592	611	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen08g013500.1	3.0	22.43	1	20	529	548	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen05g026790.1	3.0	18.533	1	20	571	590	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen01g024230.1	3.0	17.364	1	20	532	551	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen03g025970.1	3.0	16.21	1	20	352	371	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen05g027650.1	3.0	16.366	1	20	22	41	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução

spe-miR172-3-5p	Sopen02g001660.1	3.0	19.482	1	20	322	341	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen07g019680.1	3.0	12.225	1	20	391	410	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen01g023790.2	3.0	13.573	1	20	613	632	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen01g018310.1	3.0	22.744	1	20	199	218	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen01g034580.1	3.0	18.738	1	20	893	912	GCAACAUCAUCAAGAUUCAC	GUGACUCUCGAUGGUGUUGU	Clivagem
spe-miR172-3-5p	Sopen01g011230.1	3.0	17.695	1	20	1528	1547	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen01g023790.1	3.0	13.573	1	20	613	632	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen05g021440.1	3.0	13.53	1	20	1189	1208	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen01g020770.1	3.0	16.808	1	20	646	665	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen08g015080.1	3.0	20.1	1	20	1321	1340	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen10g008000.1	3.0	16.98	1	20	502	521	GCAACAUCAUCAAGAUUCAC	GUGAGUCUUACUGAUGUUGU	Tradução
spe-miR172-3-5p	Sopen08g012930.1	3.0	15.942	1	20	433	452	GCAACAUCAUCAAGAUUCAC	GUAAGUCUUAUGAUGUUGU	Tradução
spe-miR172-4-3p	Sopen09g002150.1	2.5	12.57	1	22	1278	1299	UGUGAAUCUUGAUGAUGUUGCA	UGCAGCAUCAUCAGGAUUCGCU	Clivagem
spe-miR172-4-3p	Sopen09g002130.1	2.5	12.57	1	22	1275	1296	UGUGAAUCUUGAUGAUGUUGCA	UGCAGCAUCAUCAGGAUUCGCU	Clivagem
spe-miR172-4-3p	Sopen09g002130.2	2.5	12.57	1	22	1230	1251	UGUGAAUCUUGAUGAUGUUGCA	UGCAGCAUCAUCAGGAUUCGCU	Clivagem
spe-miR172-4-3p	Sopen11g030250.1	2.5	13.401	1	22	1332	1353	UGUGAAUCUUGAUGAUGUUGCA	UGCAGCAUCAUCAGGAUUCUCA	Clivagem
spe-miR172-4-3p	Sopen11g030250.2	2.5	13.401	1	22	1287	1308	UGUGAAUCUUGAUGAUGUUGCA	UGCAGCAUCAUCAGGAUUCUCA	Clivagem
spe-miR172-4-3p	Sopen10g033790.1	3.0	13.985	1	22	1242	1263	UGUGAAUCUUGAUGAUGUUGCA	UGCAGCAUCAUCAGGAUUCGGA	Clivagem
spe-miR172-4-3p	Sopen03g030690.1	3.0	15.323	1	21	2800	2820	UGUGAAUCUUGAUGAUGUUGC	GUAGUGUUAUCAAGAUUUACA	Clivagem
spe-miR172-4-3p	Sopen06g023340.1	3.0	23.372	1	21	516	536	UGUGAAUCUUGAUGAUGUUGC	GCAACAACAUCAAGGUUUACU	Clivagem
spe-miR172-4-3p	Sopen03g025640.1	2.0	20.755	1	20	573	592	UGUGAAUCUUGAUGAUGUUG	UAACAUCACCAAGAUUUACA	Clivagem
spe-miR172-4-3p	Sopen03g025640.2	2.0	20.755	1	20	573	592	UGUGAAUCUUGAUGAUGUUG	UAACAUCACCAAGAUUUACA	Clivagem
spe-miR172-4-3p	Sopen04g030810.1	2.0	9.215	1	20	125	144	UGUGAAUCUUGAUGAUGUUG	CAACAUCAUCAGAGUUCACA	Clivagem
spe-miR172-4-3p	Sopen08g003820.1	3.0	22.397	1	22	498	519	UGUGAAUCUUGAUGAUGUUGCA	UACAACAUCAUCAAGAUUACU	Clivagem
spe-miR172-4-3p	Sopen07g026000.1	2.5	19.97	1	20	732	751	UGUGAAUCUUGAUGAUGUUG	CAACAUAUCAAGUUCUAUA	Clivagem
spe-miR172-4-3p	Sopen10g031820.1	3.0	12.726	1	20	873	892	UGUGAAUCUUGAUGAUGUUG	CAAUAUUGUCAAGAUUUUUG	Clivagem
spe-miR172-4-3p	Sopen01g040000.1	3.0	8.05	1	20	109	128	UGUGAAUCUUGAUGAUGUUG	CA AUGUCAUCAAGAUUCUUA	Clivagem
spe-miR172-4-3p	Sopen02g011210.1	3.0	14.694	1	21	3401	3421	UGUGAAUCUUGAUGAUGUUGC	GCAACGUCCUCAUGGUUCACA	Tradução
spe-miR172-4-3p	Sopen06g024260.1	3.0	16.32	1	20	3601	3620	UGUGAAUCUUGAUGAUGUUG	CAACUUCAUCAAGAUUCGUC	Clivagem
spe-miR172-4-3p	Sopen11g026060.1	3.0	15.489	1	20	205	224	UGUGAAUCUUGAUGAUGUUG	CAACACCAUCGAGAUUCAUU	Clivagem
spe-miR172-4-3p	Sopen03g006600.1	3.0	14.006	1	23	558	580	UGUGAAUCUUGAUGAUGUUGCAU	AAGCAAGACAAUCAAGAUUCACA	Clivagem
spe-miR172-4-3p	Sopen12g006560.1	3.0	13.794	1	20	916	935	UGUGAAUCUUGAUGAUGUUG	CAACAACAUCAAGGUUCAGA	Clivagem
spe-miR172-4-3p	Sopen01g030420.1	3.0	13.177	1	21	2147	2166	UGUGAAUCUUGAUGAUGUUGC	GCAGCA-CAUCAGGAUUCACA	Clivagem
spe-miR172-4-3p	Sopen02g029890.1	3.0	17.068	1	23	547	569	UGUGAAUCUUGAUGAUGUUGCAU	GUUCAUCAUCAACCAUUCACA	Tradução
spe-miR172-4-5p	Sopen09g005740.1	1.5	18.314	1	20	820	839	GCAGCAUCAUCAAGAUUCCC	GGGAUUUUGAUGAUGCUGA	Clivagem

spe-miR172-4-5p	Sopen02g002770.1	3.0	15.318	1	21	4113	4133	GCAGCAUCAUCAAGAUUCCCA	UGGGAUUCUUGAUGUUGUUGC	Clivagem
spe-miR172-4-5p	Sopen04g036240.1	3.0	21.231	1	21	1605	1625	GCAGCAUCAUCAAGAUUCCCA	UGGGAAAUUUGAUGGUGUUGU	Clivagem
spe-miR172-4-5p	Sopen09g003390.1	2.5	18.208	1	21	450	470	GCAGCAUCAUCAAGAUUCCCA	UGAGAAUCUCGAUGAUGUUGC	Clivagem
spe-miR172-4-5p	Sopen02g035770.2	2.5	18.732	1	20	2710	2729	GCAGCAUCAUCAAGAUUCCC	GGUGAUCUUGGUGAUGUUGC	Clivagem
spe-miR172-4-5p	Sopen02g035770.1	2.5	18.732	1	20	2710	2729	GCAGCAUCAUCAAGAUUCCC	GGUGAUCUUGGUGAUGUUGC	Clivagem
spe-miR172-4-5p	Sopen08g031200.1	2.5	16.407	1	20	1489	1508	GCAGCAUCAUCAAGAUUCCC	GGGAGUCUAGGUGAUGCUGU	Clivagem
spe-miR172-4-5p	Sopen05g027750.1	2.0	17.438	1	20	442	461	GCAGCAUCAUCAAGAUUCCC	GGUAAUCUUGUUGAUGCUGC	Tradução
spe-miR172-4-5p	Sopen02g023500.1	3.0	19.508	1	20	501	520	GCAGCAUCAUCAAGAUUCCC	AAGAAUCUUGAAGAUUGCUGC	Tradução
spe-miR172-4-5p	Sopen09g023370.1	3.0	12.047	1	21	4383	4403	GCAGCAUCAUCAAGAUUCCCA	UGAGAGUGUUGAUGAUGUUGC	Clivagem
spe-miR172-4-5p	Sopen02g003340.1	3.0	18.812	1	21	114	134	GCAGCAUCAUCAAGAUUCCCA	UGGUGAUGUUGAUGAUGUUGC	Clivagem
spe-miR172-4-5p	Sopen01g047980.2	3.0	22.623	1	20	1393	1412	GCAGCAUCAUCAAGAUUCCC	GGGAAUAUUGAUGAUGCAGU	Clivagem
spe-miR172-4-5p	Sopen01g047980.3	3.0	22.623	1	20	160	179	GCAGCAUCAUCAAGAUUCCC	GGGAAUAUUGAUGAUGCAGU	Clivagem
spe-miR172-4-5p	Sopen03g038860.1	3.0	24.587	1	20	883	902	GCAGCAUCAUCAAGAUUCCC	GGGGAGCCUGAUGAUGCUGU	Clivagem
spe-miR172-5-3p	Sopen07g020390.1	2.0	23.565	1	20	2271	2290	UGAAUCUUGAUGAUGCUGCA	UGGAGUAUCAUCAAGAUCCA	Clivagem
spe-miR172-5-3p	Sopen12g025840.1	2.5	22.11	1	20	3831	3850	UGAAUCUUGAUGAUGCUGCA	UGGAGUAUUAUCAAGAUCCA	Clivagem
spe-miR172-5-3p	Sopen05g004820.1	2.5	22.572	1	20	3435	3454	UGAAUCUUGAUGAUGCUGCA	UGGAGUAUUAUCAAGAUCCA	Clivagem
spe-miR172-5-3p	Sopen02g014660.1	2.5	22.572	1	20	2271	2290	UGAAUCUUGAUGAUGCUGCA	UGGAGUAUUAUCAAGAUCCA	Clivagem
spe-miR172-5-3p	Sopen08g008550.1	2.5	22.572	1	20	1968	1987	UGAAUCUUGAUGAUGCUGCA	UGGAGUAUUAUCAAGAUCCA	Clivagem
spe-miR172-5-3p	Sopen09g002150.1	2.0	10.959	1	20	1278	1297	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-5-3p	Sopen09g002130.1	2.0	10.959	1	20	1275	1294	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-5-3p	Sopen10g033790.1	2.0	13.636	1	20	1242	1261	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-5-3p	Sopen09g002130.2	2.0	10.959	1	20	1230	1249	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-5-3p	Sopen09g011110.1	2.5	24.597	1	20	753	772	UGAAUCUUGAUGAUGCUGCA	UGGAGUAUUAUCAAGAUCCA	Clivagem
spe-miR172-5-3p	Sopen05g009530.1	3.0	11.354	1	21	334	354	UGAAUCUUGAUGAUGCUGCAC	GUUGAGCAUUAUCAAGAAUCA	Clivagem
spe-miR172-5-3p	Sopen02g037720.1	2.5	16.019	1	20	1440	1459	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-5-3p	Sopen02g015090.1	2.5	16.771	1	20	1431	1450	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-5-3p	Sopen11g030250.1	2.5	13.096	1	20	1332	1351	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-5-3p	Sopen11g030250.2	2.5	13.096	1	20	1287	1306	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-5-3p	Sopen03g008400.3	2.5	17.579	1	20	1344	1363	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-5-3p	Sopen03g008400.2	2.5	17.579	1	20	1332	1351	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-5-3p	Sopen03g008400.1	2.5	18.47	1	20	1128	1147	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-5-3p	Sopen04g020090.1	2.5	11.188	1	20	1104	1123	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-5-3p	Sopen08g005960.1	3.0	23.15	1	20	1431	1450	UGAAUCUUGAUGAUGCUGCA	UGGAGUAUUAUCAAGAUUGA	Clivagem
spe-miR172-5-3p	Sopen03g004900.1	3.0	17.037	1	20	515	534	UGAAUCUUGAUGAUGCUGCA	UGGAGCGUCAUGAAAUAUCA	Tradução
spe-miR172-5-3p	Sopen04g003560.1	3.0	19.794	1	20	154	173	UGAAUCUUGAUGAUGCUGCA	UGGGGCAACAUAGAGAUUCA	Tradução

spe-miR172-5-3p	Sopen03g002770.1	3.0	20.597	1	20	1958	1977	UGAAUCUUGAUGAUGCUGCA	UGUAUCUUCAUCAAGAUUCA	Clivagem
spe-miR172-5-3p	Sopen07g002340.1	3.0	17.118	1	20	488	507	UGAAUCUUGAUGAUGCUGCA	UGGAGCAAGAUAAAGAUUCA	Tradução
spe-miR172-5-5p	Sopen09g005740.1	1.5	18.314	1	20	820	839	GCAGCAUCAUCAAGAUUCCC	GGGAAUUUUGAUGAUGCUGA	Clivagem
spe-miR172-5-5p	Sopen02g002770.1	3.0	15.318	1	21	4113	4133	GCAGCAUCAUCAAGAUUCCCC	UGGGAAUUCUUGAUGUUGUUGC	Clivagem
spe-miR172-5-5p	Sopen04g036240.1	3.0	21.231	1	21	1605	1625	GCAGCAUCAUCAAGAUUCCCC	UGGGAAAUUUGAUGGUGUUGU	Clivagem
spe-miR172-5-5p	Sopen09g003390.1	2.5	18.208	1	21	450	470	GCAGCAUCAUCAAGAUUCCCC	UGAGAAUCUCGAUGAUGUUGC	Clivagem
spe-miR172-5-5p	Sopen02g035770.2	2.5	18.732	1	20	2710	2729	GCAGCAUCAUCAAGAUUCCC	GGUGAUCUUGGUGAUGUUGC	Clivagem
spe-miR172-5-5p	Sopen02g035770.1	2.5	18.732	1	20	2710	2729	GCAGCAUCAUCAAGAUUCCC	GGUGAUCUUGGUGAUGUUGC	Clivagem
spe-miR172-5-5p	Sopen08g031200.1	2.5	16.407	1	20	1489	1508	GCAGCAUCAUCAAGAUUCCC	GGGAGUCUAGGUGAUGCUGU	Clivagem
spe-miR172-5-5p	Sopen05g027750.1	2.0	17.438	1	20	442	461	GCAGCAUCAUCAAGAUUCCC	GGUAAUCUUGUUGAUGCUGC	Tradução
spe-miR172-5-5p	Sopen02g023500.1	3.0	19.508	1	20	501	520	GCAGCAUCAUCAAGAUUCCC	AAGAAUCUUGAAGAUUGCUGC	Tradução
spe-miR172-5-5p	Sopen09g023370.1	3.0	12.047	1	21	4383	4403	GCAGCAUCAUCAAGAUUCCCC	UGAGAGUGUUGAUGAUGUUGC	Clivagem
spe-miR172-5-5p	Sopen02g003340.1	3.0	18.812	1	21	114	134	GCAGCAUCAUCAAGAUUCCCC	UGGUGAUGUUGAUGAUGUUGC	Clivagem
spe-miR172-5-5p	Sopen01g047980.2	3.0	22.623	1	20	1393	1412	GCAGCAUCAUCAAGAUUCCC	GGGAAUAUUGAUGAUGCAGU	Clivagem
spe-miR172-5-5p	Sopen01g047980.3	3.0	22.623	1	20	160	179	GCAGCAUCAUCAAGAUUCCC	GGGAAUAUUGAUGAUGCAGU	Clivagem
spe-miR172-5-5p	Sopen03g038860.1	3.0	24.587	1	20	883	902	GCAGCAUCAUCAAGAUUCCC	GGGGAGCCUGAUGAUGCUGU	Clivagem
spe-miR172-6-3p	Sopen11g030250.1	0.5	13.096	1	20	1332	1351	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-6-3p	Sopen11g030250.2	0.5	13.096	1	20	1287	1306	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-6-3p	Sopen04g020090.1	0.5	11.188	1	20	1104	1123	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-6-3p	Sopen02g037720.1	1.5	16.019	1	20	1440	1459	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-6-3p	Sopen02g015090.1	1.5	16.771	1	20	1431	1450	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-6-3p	Sopen03g008400.3	1.5	17.579	1	20	1344	1363	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-6-3p	Sopen06g031890.1	1.5	12.791	1	20	1299	1318	AGAAUCUUGAUGAUGCUGCA	GGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-6-3p	Sopen09g002150.1	1.5	10.959	1	20	1278	1297	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-6-3p	Sopen03g008400.2	1.5	17.579	1	20	1332	1351	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-6-3p	Sopen09g002130.1	1.5	10.959	1	20	1275	1294	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-6-3p	Sopen10g033790.1	1.5	13.636	1	20	1242	1261	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-6-3p	Sopen06g031890.2	1.5	12.791	1	20	1254	1273	AGAAUCUUGAUGAUGCUGCA	GGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-6-3p	Sopen09g002130.2	1.5	10.959	1	20	1230	1249	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-6-3p	Sopen03g008400.1	1.5	18.47	1	20	1128	1147	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-6-3p	Sopen10g002630.2	2.5	17.691	1	21	1864	1884	AGAAUCUUGAUGAUGCUGCAU	AUGUACCUUCAUCAAGAUUCU	Clivagem
spe-miR172-6-3p	Sopen07g031900.1	2.5	18.332	1	21	1816	1836	AGAAUCUUGAUGAUGCUGCAU	AUGUAUCUUCAUCAAGAUUCU	Clivagem
spe-miR172-6-3p	Sopen10g002630.3	2.5	17.691	1	21	1258	1278	AGAAUCUUGAUGAUGCUGCAU	AUGUACCUUCAUCAAGAUUCU	Clivagem
spe-miR172-6-3p	Sopen03g037820.1	3.0	9.958	1	21	1345	1365	AGAAUCUUGAUGAUGCUGCAU	AUGCAGCAAGUUCAAGAUUCU	Tradução
spe-miR172-6-3p	Sopen11g006420.1	3.0	17.08	1	21	1126	1145	AGAAUCUUGAUGAUGCUGCAU	AUGCAGC-UUAUCAAGAUUUU	Clivagem

spe-miR172-6-3p	Sopen04g020260.1	3.0	21.984	1	21	256	275	AGAAUCUUGAUGAUGCUGCAU	AUGCAGC-UUAUCAAGGUUCU	Clivagem
spe-miR172-6-3p	Sopen06g034240.1	3.0	15.528	1	21	1403	1422	AGAAUCUUGAUGAUGCUGCAU	GUGCAGC-UCGUCAAGAUUUU	Clivagem
spe-miR172-6-5p	Sopen04g005210.1	3.0	16.702	1	21	6	26	GCAGCACCAUUAAGAUUCACA	UGUGGAUUUUAAUGGUGAUGU	Clivagem
spe-miR172-6-5p	Sopen01g025830.1	2.5	19.108	1	21	807	827	GCAGCACCAUUAAGAUUCACA	UCUGAAUCUUAAGGUGUUGC	Tradução
spe-miR172-6-5p	Sopen04g004840.1	3.0	19.744	1	20	520	539	GCAGCACCAUUAAGAUUCAC	GUGGAUUUUGAUGGUGUUGA	Clivagem
spe-miR172-6-5p	Sopen10g034120.1	3.0	20.605	1	21	513	533	GCAGCACCAUUAAGAUUCACA	UGUGAUUGUUAUGGUGCUGG	Clivagem
spe-miR172-6-5p	Sopen03g009310.1	3.0	20.843	1	21	570	590	GCAGCACCAUUAAGAUUCACA	UGUGAGUCUGACUGGUGUUGC	Tradução
spe-miR172-6-5p	Sopen08g012730.1	3.0	9.574	1	20	73	92	GCAGCACCAUUAAGAUUCAC	GUGGAUUUGAUGGUGUUGU	Clivagem
spe-miR172-6-5p	Sopen11g023560.1	3.0	16.704	1	20	694	713	GCAGCACCAUUAAGAUUCAC	GUAAAUCUUAUGGUUCUGU	Clivagem
spe-miR172-6-5p	Sopen01g022520.1	3.0	16.4	1	21	633	653	GCAGCACCAUUAAGAUUCACA	UGGAAAUCUUAAGGUGCUGC	Tradução
spe-miR172-6-5p	Sopen05g007100.1	2.5	20.055	1	20	143	161	GCAGCACCAUUAAGAUUCAC	GUGAAU-UUAAUGGUGUUGC	Clivagem
spe-miR172-7-3p	Sopen09g002150.1	1.0	10.959	1	20	1278	1297	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-7-3p	Sopen09g002130.1	1.0	10.959	1	20	1275	1294	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-7-3p	Sopen10g033790.1	1.0	13.636	1	20	1242	1261	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-7-3p	Sopen09g002130.2	1.0	10.959	1	20	1230	1249	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172-7-3p	Sopen02g037720.1	1.5	16.019	1	20	1440	1459	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-7-3p	Sopen02g015090.1	1.5	16.771	1	20	1431	1450	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-7-3p	Sopen11g030250.1	1.5	13.096	1	20	1332	1351	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-7-3p	Sopen11g030250.2	1.5	13.096	1	20	1287	1306	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-7-3p	Sopen03g008400.3	1.5	17.579	1	20	1344	1363	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-7-3p	Sopen03g008400.2	1.5	17.579	1	20	1332	1351	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-7-3p	Sopen03g008400.1	1.5	18.47	1	20	1128	1147	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172-7-3p	Sopen04g020090.1	1.5	11.188	1	20	1104	1123	UGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-7-3p	Sopen06g031890.1	2.5	12.791	1	20	1299	1318	UGAAUCUUGAUGAUGCUGCA	GGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-7-3p	Sopen06g031890.2	2.5	12.791	1	20	1254	1273	UGAAUCUUGAUGAUGCUGCA	GGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172-7-3p	Sopen03g002770.1	2.5	20.597	1	20	1958	1977	UGAAUCUUGAUGAUGCUGCA	UGUAUCUUCAUCAAGAUUCA	Clivagem
spe-miR172-7-3p	Sopen07g020390.1	3.0	23.565	1	20	2271	2290	UGAAUCUUGAUGAUGCUGCA	UGGAGUAUCAUCAAGAUCCA	Clivagem
spe-miR172-7-3p	Sopen01g039920.1	3.0	10.77	1	21	306	326	UGAAUCUUGAUGAUGCUGCAU	GUACAACAUCAUCAAGGUUA	Clivagem
spe-miR172-7-5p	Sopen12g006260.1	3.0	12.77	1	21	1359	1379	GCAGCACAUUAAGAUUCUCA	UGAAAAUCUUAUGGUGUUGA	Clivagem
spe-miR172-7-5p	Sopen12g002420.1	3.0	14.376	1	21	2217	2237	GCAGCACAUUAAGAUUCUCA	UGAGGAUAUUGAUAGUGUUGU	Clivagem
spe-miR172-7-5p	Sopen09g002210.1	2.5	12.951	1	20	2278	2297	GCAGCACAUUAAGAUUCUC	GAUAAUCUUAUAGUGUUGG	Clivagem
spe-miR172-7-5p	Sopen01g022520.1	3.0	16.4	1	21	633	653	GCAGCACAUUAAGAUUCUCA	UGGAAAUCUUAAGGUGCUGC	Tradução
spe-miR172-7-5p	Sopen10g031740.2	3.0	23.503	1	20	283	302	GCAGCACAUUAAGAUUCUC	GAGAGUUUAGAUGGUGCUGC	Clivagem
spe-miR172-7-5p	Sopen10g031740.1	3.0	20.936	1	20	304	323	GCAGCACAUUAAGAUUCUC	GAGAGUUUAGAUGGUGCUGC	Clivagem
spe-miR172-7-5p	Sopen10g031740.3	3.0	20.936	1	20	304	323	GCAGCACAUUAAGAUUCUC	GAGAGUUUAGAUGGUGCUGC	Clivagem

spe-miR172-7-5p	Sopen12g034590.3	3.0	16.621	1	20	304	323	GCAGCACUAUUAAGAUUCUC	GAGAACCUUGAAAGUGUUGC	Tradução
spe-miR172-7-5p	Sopen12g034590.2	3.0	16.621	1	20	562	581	GCAGCACUAUUAAGAUUCUC	GAGAACCUUGAAAGUGUUGC	Tradução
spe-miR172-8-3p	Sopen11g026710.1	2.5	15.169	1	22	2328	2349	UGAGAAUCUUAUAGUGCUGCA	UGCAGCACUUUUUGGAUUCUCA	Tradução
spe-miR172-8-3p	Sopen11g030250.1	3.0	13.401	1	22	1332	1353	UGAGAAUCUUAUAGUGCUGCA	UGCAGCAUCAUCAGGAUUCUCA	Tradução
spe-miR172-8-3p	Sopen11g030250.2	3.0	13.401	1	22	1287	1308	UGAGAAUCUUAUAGUGCUGCA	UGCAGCAUCAUCAGGAUUCUCA	Tradução
spe-miR172-8-3p	Sopen01g047660.1	2.5	19.58	1	20	165	184	UGAGAAUCUUAUAGUGCUG	CCGCACUAUUAAAGGUUCUUG	Clivagem
spe-miR172-8-3p	Sopen07g002210.1	3.0	18.309	1	20	1359	1378	UGAGAAUCUUAUAGUGCUG	UAGCAUUAUGAGGAUUCUUA	Tradução
spe-miR172-8-3p	Sopen04g031850.1	3.0	24.404	1	20	537	556	UGAGAAUCUUAUAGUGCUG	CAUUGCAAUUAAGAUUCUCA	Clivagem
spe-miR172-8-5p	Sopen04g006670.1	2.5	20.838	1	21	3738	3758	GCAGCAUCAUCAAGAUUCACA	UGUGAAUUUUGGUGAUGCUGU	Clivagem
spe-miR172-8-5p	Sopen10g032510.1	3.0	19.135	1	20	1924	1943	GCAGCAUCAUCAAGAUUCAC	GUGAGUCUUGAUGAUGCUGU	Clivagem
spe-miR172-8-5p	Sopen00g013390.1	2.5	23.133	1	21	1416	1436	GCAGCAUCAUCAAGAUUCACA	UGUGAAUUUUGGUGAUGCUGU	Clivagem
spe-miR172-8-5p	Sopen02g018230.2	2.5	19.836	1	21	1050	1070	GCAGCAUCAUCAAGAUUCACA	UGUGGAACUUGGUGAUGCUGU	Clivagem
spe-miR172-8-5p	Sopen02g018230.1	2.5	19.836	1	21	294	314	GCAGCAUCAUCAAGAUUCACA	UGUGGAACUUGGUGAUGCUGU	Clivagem
spe-miR172-8-5p	Sopen07g019560.1	2.5	8.797	1	20	772	791	GCAGCAUCAUCAAGAUUCAC	AUGAAUUUUGAUGAUGUUGU	Clivagem
spe-miR172-8-5p	Sopen10g013610.2	2.5	24.197	1	21	5313	5333	GCAGCAUCAUCAAGAUUCACA	UGUGAAUUGUGCUGAUGCUGC	Tradução
spe-miR172-8-5p	Sopen10g013610.1	2.5	24.197	1	21	5313	5333	GCAGCAUCAUCAAGAUUCACA	UGUGAAUUGUGCUGAUGCUGC	Tradução
spe-miR172-8-5p	Sopen06g003520.1	3.0	16.636	1	21	168	188	GCAGCAUCAUCAAGAUUCACA	UGUUAAUUUUGAUGAUUCUGC	Clivagem
spe-miR172-8-5p	Sopen12g034090.1	3.0	24.619	1	21	195	215	GCAGCAUCAUCAAGAUUCACA	UGUGAAUUUUGCUGAAGCUGC	Tradução
spe-miR172-8-5p	Sopen09g003390.1	2.5	18.208	1	21	450	470	GCAGCAUCAUCAAGAUUCACA	UGAGAAUCUCGAUGAUGUUGC	Clivagem
spe-miR172-8-5p	Sopen04g004840.1	3.0	19.744	1	20	520	539	GCAGCAUCAUCAAGAUUCAC	GUGGAUUUUGAUGGUGUUGA	Clivagem
spe-miR172-8-5p	Sopen09g005740.1	2.5	18.314	1	20	820	839	GCAGCAUCAUCAAGAUUCAC	GGGAUUUUGAUGAUGCUGA	Clivagem
spe-miR172-8-5p	Sopen12g030540.1	3.0	24.578	1	21	375	395	GCAGCAUCAUCAAGAUUCACA	UCUCAUCUUGAUGAUGCUGA	Clivagem
spe-miR172-8-5p	Sopen02g023500.1	3.0	19.508	1	20	501	520	GCAGCAUCAUCAAGAUUCAC	AAGAAUCUUGAAGAUUCUGC	Tradução
spe-miR172-8-5p	Sopen09g023370.1	3.0	12.047	1	21	4383	4403	GCAGCAUCAUCAAGAUUCACA	UGAGAGUGUUGAUGAUGUUGC	Clivagem
spe-miR172-8-5p	Sopen07g026900.1	3.0	19.453	1	21	681	701	GCAGCAUCAUCAAGAUUCACA	UGUGACAUUUGAUGAUGUUGC	Clivagem
spe-miR172-8-5p	Sopen09g029770.2	3.0	13.752	1	20	1087	1106	GCAGCAUCAUCAAGAUUCAC	UUGAAUCUUGAUAAUGUUGU	Clivagem
spe-miR172-8-5p	Sopen09g029770.1	3.0	13.752	1	20	1036	1055	GCAGCAUCAUCAAGAUUCAC	UUGAAUCUUGAUAAUGUUGU	Clivagem
spe-miR172-8-5p	Sopen02g003380.2	3.0	18.238	1	20	2662	2681	GCAGCAUCAUCAAGAUUCAC	UUUGAUCUUGAUGAUGCUGU	Clivagem
spe-miR172-8-5p	Sopen02g003380.1	3.0	18.238	1	20	2596	2615	GCAGCAUCAUCAAGAUUCAC	UUUGAUCUUGAUGAUGCUGU	Clivagem
spe-miR172-8-5p	Sopen06g006330.1	3.0	14.077	1	20	22	41	GCAGCAUCAUCAAGAUUCAC	GUGAGUCUUGAUGAUGUUGU	Tradução
spe-miR172-8-5p	Sopen03g006590.1	3.0	21.327	1	20	628	647	GCAGCAUCAUCAAGAUUCAC	GUGAAUUUUGAUCAUCCUGC	Clivagem
spe-miR172-8-5p	Sopen01g037780.1	3.0	13.325	1	21	576	596	GCAGCAUCAUCAAGAUUCACA	UGUGAAGCUUGAAAAUGCUGC	Tradução
spe-miR172-8-5p	Sopen10g006520.1	3.0	15.525	1	21	417	437	GCAGCAUCAUCAAGAUUCACA	UGUGAAGCUUGAAAAUGCUGC	Tradução
spe-miR172-8-5p	Sopen01g010730.1	3.0	23.406	1	20	118	137	GCAGCAUCAUCAAGAUUCAC	GUCACUCUUGAUGAUGCUGA	Clivagem
spe-miR172-8-5p	Sopen03g019160.1	3.0	14.758	1	20	442	461	GCAGCAUCAUCAAGAUUCAC	GUGAUUCUUGCUGAUGUUGU	Tradução

spe-miR172-8-5p	Sopen04g027220.1	3.0	15.122	1	20	859	878	GCAGCAUCAUCAAGAUUCAC	GUGAAUGUUGAAGAUGUUGU	Tradução
spe-miR172-8-5p	Sopen04g035870.1	3.0	20.164	1	20	751	770	GCAGCAUCAUCAAGAUUCAC	GUGACUUUUGCUGAUGUUGC	Tradução
spe-miR172-8-5p	Sopen06g026740.1	3.0	15.291	1	21	436	455	GCAGCAUCAUCAAGAUUCACA	UGUGAA-CUUGAUAAUGCUGC	Clivagem
spe-miR172a-3p	Sopen11g030250.1	0.5	13.096	1	20	1332	1351	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172a-3p	Sopen11g030250.2	0.5	13.096	1	20	1287	1306	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172a-3p	Sopen04g020090.1	0.5	11.188	1	20	1104	1123	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172a-3p	Sopen02g037720.1	1.5	16.019	1	20	1440	1459	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172a-3p	Sopen02g015090.1	1.5	16.771	1	20	1431	1450	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172a-3p	Sopen03g008400.3	1.5	17.579	1	20	1344	1363	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172a-3p	Sopen06g031890.1	1.5	12.791	1	20	1299	1318	AGAAUCUUGAUGAUGCUGCA	GGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172a-3p	Sopen09g002150.1	1.5	10.959	1	20	1278	1297	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172a-3p	Sopen03g008400.2	1.5	17.579	1	20	1332	1351	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172a-3p	Sopen09g002130.1	1.5	10.959	1	20	1275	1294	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172a-3p	Sopen10g033790.1	1.5	13.636	1	20	1242	1261	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172a-3p	Sopen06g031890.2	1.5	12.791	1	20	1254	1273	AGAAUCUUGAUGAUGCUGCA	GGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172a-3p	Sopen09g002130.2	1.5	10.959	1	20	1230	1249	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172a-3p	Sopen03g008400.1	1.5	18.47	1	20	1128	1147	AGAAUCUUGAUGAUGCUGCA	UGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172a-3p	Sopen10g002630.2	2.5	17.691	1	21	1864	1884	AGAAUCUUGAUGAUGCUGCAU	AUGUACCUUCAUCAAGAUUCU	Clivagem
spe-miR172a-3p	Sopen07g031900.1	2.5	18.332	1	21	1816	1836	AGAAUCUUGAUGAUGCUGCAU	AUGUAUCUUCAUCAAGAUUCU	Clivagem
spe-miR172a-3p	Sopen10g002630.3	2.5	17.691	1	21	1258	1278	AGAAUCUUGAUGAUGCUGCAU	AUGUACCUUCAUCAAGAUUCU	Clivagem
spe-miR172a-3p	Sopen03g037820.1	3.0	9.958	1	21	1345	1365	AGAAUCUUGAUGAUGCUGCAU	AUGCAGCAAGUUCAAGAUUCU	Tradução
spe-miR172a-3p	Sopen11g006420.1	3.0	17.08	1	21	1126	1145	AGAAUCUUGAUGAUGCUGCAU	AUGCAGC-UUAUCAAGAUUUU	Clivagem
spe-miR172a-3p	Sopen04g020260.1	3.0	21.984	1	21	256	275	AGAAUCUUGAUGAUGCUGCAU	AUGCAGC-UUAUCAAGGUUCU	Clivagem
spe-miR172a-3p	Sopen06g034240.1	3.0	15.528	1	21	1403	1422	AGAAUCUUGAUGAUGCUGCAU	GUGCAGC-UCGUCAAGAUUUU	Clivagem
spe-miR172a-5p	Sopen10g017470.1	2.0	19.139	1	21	876	896	GUAGCAUAAUCAAGAUUCACA	UGUGAGUCUUGAUCAUGCUAU	Clivagem
spe-miR172a-5p	Sopen12g027430.1	2.5	19.441	1	21	506	526	GUAGCAUAAUCAAGAUUCACA	UGCAGAAUCUUGGUUGUGCUAU	Clivagem
spe-miR172a-5p	Sopen10g032510.1	2.0	19.135	1	20	1924	1943	GUAGCAUAAUCAAGAUUCAC	GUGAGUCUUGAUGAUGCUAU	Clivagem
spe-miR172a-5p	Sopen11g011620.1	3.0	24.941	1	21	99	119	GUAGCAUAAUCAAGAUUCACA	UAUGGAUAUUGAUUAUGCUAU	Clivagem
spe-miR172a-5p	Sopen09g024810.1	3.0	21.684	1	21	99	119	GUAGCAUAAUCAAGAUUCACA	UAUGGAUAUUGAUUAUGCUAU	Clivagem
spe-miR172a-5p	Sopen05g009120.3	3.0	14.61	1	20	1426	1445	GUAGCAUAAUCAAGAUUCAC	GUGAAUCUUGCUUCUGCUAU	Tradução
spe-miR172a-5p	Sopen08g013020.1	3.0	10.08	1	19	5141	5160	GUAGCAUAA-UCAAGAUUCA	UGAAUCUUGAAUUAUGCUAU	Tradução
spe-miR172a-5p	Sopen03g041600.1	3.0	18.202	1	20	1552	1571	GUAGCAUAAUCAAGAUUCAC	GUAAAUCUUGAAAUGCUCAC	Tradução
spe-miR172d-3p	Sopen02g037720.1	0.5	16.019	1	21	1439	1459	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172d-3p	Sopen02g015090.1	0.5	16.771	1	21	1430	1450	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172d-3p	Sopen03g008400.3	0.5	17.579	1	21	1343	1363	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCU	Clivagem

spe-miR172d-3p	Sopen03g008400.2	0.5	17.579	1	21	1331	1351	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172d-3p	Sopen03g008400.1	0.5	18.47	1	21	1127	1147	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUC	Clivagem
spe-miR172d-3p	Sopen11g030250.1	1.0	13.096	1	21	1331	1351	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172d-3p	Sopen11g030250.2	1.0	13.096	1	21	1286	1306	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172d-3p	Sopen04g020090.1	1.0	11.188	1	21	1103	1123	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172d-3p	Sopen09g002150.1	1.5	10.959	1	21	1277	1297	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172d-3p	Sopen09g002130.1	1.5	10.959	1	21	1274	1294	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172d-3p	Sopen10g033790.1	1.5	13.636	1	21	1241	1261	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172d-3p	Sopen09g002130.2	1.5	10.959	1	21	1229	1249	GGAAUCUUGAUGAUGCUGCAG	CUGCAGCAUCAUCAGGAUUCG	Clivagem
spe-miR172d-3p	Sopen06g031890.1	2.0	12.791	1	21	1298	1318	GGAAUCUUGAUGAUGCUGCAG	CGGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172d-3p	Sopen06g031890.2	2.0	12.791	1	21	1253	1273	GGAAUCUUGAUGAUGCUGCAG	CGGCAGCAUCAUCAGGAUUCU	Clivagem
spe-miR172d-3p	Sopen10g002630.2	3.0	17.691	1	20	1865	1884	GGAAUCUUGAUGAUGCUGCA	UGUACCUUCAUCAAGAUUCU	Clivagem
spe-miR172d-3p	Sopen07g031900.1	3.0	18.332	1	20	1817	1836	GGAAUCUUGAUGAUGCUGCA	UGUACCUUCAUCAAGAUUCU	Clivagem
spe-miR172d-3p	Sopen10g002630.3	3.0	17.691	1	20	1259	1278	GGAAUCUUGAUGAUGCUGCA	UGUACCUUCAUCAAGAUUCU	Clivagem
spe-miR172d-3p	Sopen12g005650.1	3.0	18.668	1	20	27	46	GGAAUCUUGAUGAUGCUGCA	UGAAGCUUUAUCAAGAUUC	Clivagem
spe-miR172d-3p	Sopen11g002960.1	3.0	12.142	1	21	130	150	GGAAUCUUGAUGAUGCUGCAG	UUGAAUCAUCUUAAGAUUC	Tradução
spe-miR172d-5p	Sopen03g014410.1	2.5	23.051	1	20	6784	6803	GGAGCAUCAUCAAGAUUCAC	AGGAAUCUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen10g032510.1	3.0	19.135	1	20	1924	1943	GGAGCAUCAUCAAGAUUCAC	GUGAGUCUUGAUGAUGCUAU	Clivagem
spe-miR172d-5p	Sopen05g020090.1	3.0	20.454	1	20	2797	2816	GGAGCAUCAUCAAGAUUCAC	AGGAGUCUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen01g014860.1	3.0	23.388	1	20	5809	5828	GGAGCAUCAUCAAGAUUCAC	AGGAGUCUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen04g022460.1	3.0	18.257	1	20	4039	4058	GGAGCAUCAUCAAGAUUCAC	AGGAGUCUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen05g025370.1	3.0	22.823	1	20	2401	2420	GGAGCAUCAUCAAGAUUCAC	AGGAGUCUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen05g018970.1	3.0	23.115	1	20	1690	1709	GGAGCAUCAUCAAGAUUCAC	AGGAGUCUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen01g014920.1	3.0	18.187	1	20	874	893	GGAGCAUCAUCAAGAUUCAC	AGGAGUCUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen11g016140.1	3.0	20.398	1	20	1891	1910	GGAGCAUCAUCAAGAUUCAC	AGGAGUCUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen11g023070.1	3.0	20.1	1	20	31	50	GGAGCAUCAUCAAGAUUCAC	AGGAGUCUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen06g011780.1	3.0	12.755	1	20	949	968	GGAGCAUCAUCAAGAUUCAC	AUGAAUCUUGAUGAUUCUCU	Clivagem
spe-miR172d-5p	Sopen01g021680.1	3.0	22.633	1	21	3120	3140	GGAGCAUCAUCAAGAUUCACA	UGGGAGGCUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen02g035340.1	3.0	18.033	1	21	177	197	GGAGCAUCAUCAAGAUUCACA	UUUGAGUCUUGUUGAUGCUCU	Tradução
spe-miR172d-5p	Sopen03g039840.1	3.0	22.681	1	21	57	77	GGAGCAUCAUCAAGAUUCACA	UGCGACUUUUGAUGGUCUCC	Clivagem
spe-miR172d-5p	Sopen06g007450.1	3.0	18.435	1	20	6268	6287	GGAGCAUCAUCAAGAUUCAC	AUGAGGCUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen03g009220.1	3.0	18.055	1	20	1480	1499	GGAGCAUCAUCAAGAUUCAC	AUGAGGCUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen05g031560.1	3.0	14.973	1	20	436	455	GGAGCAUCAUCAAGAUUCAC	CUGGAUUCUGAUGAUGCUC	Clivagem
spe-miR172d-5p	Sopen03g026140.1	3.0	20.535	1	20	1810	1829	GGAGCAUCAUCAAGAUUCAC	GUGAGGUUUGGUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen11g013640.1	2.5	18.849	1	20	829	848	GGAGCAUCAUCAAGAUUCAC	GUUAAUCAUGAUGAUUCC	Clivagem

spe-miR172d-5p	Sopen01g047980.2	3.0	22.076	1	20	574	593	GGAGCAUCAUCAAGAUUCAC	GUCAAACUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen01g047980.1	3.0	22.076	1	20	574	593	GGAGCAUCAUCAAGAUUCAC	GUCAAACUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen06g012400.1	3.0	17.355	1	20	2293	2312	GGAGCAUCAUCAAGAUUCAC	GGGAGGCUUGAUGAUGCUCU	Clivagem
spe-miR172d-5p	Sopen07g025480.1	3.0	15.266	1	20	1594	1613	GGAGCAUCAUCAAGAUUCAC	GUGUAUGUUGAUGAUGUUCU	Clivagem
spe-miR172d-5p	Sopen05g022640.1	3.0	21.17	1	20	838	857	GGAGCAUCAUCAAGAUUCAC	GGGAGCCUUGAUGAUGCUCU	Clivagem
spe-miR1886-1-3p	Sopen03g020610.1	3.0	11.766	1	22	4116	4137	AUUUUACGUUGAUUUCAUCUCA	UGAGGUGAAAUCAAGCAAAAU	Clivagem
spe-miR1886-1-3p	Sopen02g016750.1	2.5	16.447	1	20	471	490	AUUUUACGUUGAUUUCAUCU	AGAUGGAAUUAUGUAAAAU	Tradução
spe-miR1886-1-3p	Sopen02g016740.1	2.5	12.431	1	20	579	598	AUUUUACGUUGAUUUCAUCU	AGAUGGAAUUAUGUAAAAU	Tradução
spe-miR1886-1-3p	Sopen11g010690.1	3.0	16.03	1	20	273	292	AUUUUACGUUGAUUUCAUCU	AGAUGAGAUCAAAGUAGAAA	Clivagem
spe-miR1886-1-3p	Sopen11g021030.1	3.0	11.701	1	20	261	280	AUUUUACGUUGAUUUCAUCU	AGAUGAGAUCAAAGUAGAAA	Clivagem
spe-miR1886-1-3p	Sopen03g028420.1	3.0	17.441	1	20	1836	1855	AUUUUACGUUGAUUUCAUCU	AGAUGAGGUCAAGGUGAGAU	Clivagem
spe-miR1886-1-5p	Sopen03g020830.1	2.5	6.027	1	23	102	124	AUGAGAUGGAAUUAGGGUUUGGA	UUCGAAUCCUAAUUCUUCUCAU	Clivagem
spe-miR1886-1-5p	Sopen05g005910.1	2.5	20.374	1	22	1084	1105	AUGAGAUGGAAUUAGGGUUUGG	CCAAAUUCUGAUUCCGUCUUAU	Clivagem
spe-miR1886-1-5p	Sopen01g002530.1	2.0	16.424	1	20	32	51	AUGAGAUGGAAUUAGGGUUU	AAACCCUAAUCCAUCUUGG	Clivagem
spe-miR1886-1-5p	Sopen04g033400.1	3.0	19.34	1	23	969	991	AUGAGAUGGAAUUAGGGUUUGGA	UCAAACCCUAAUCCAACUCGG	Clivagem
spe-miR1886-1-5p	Sopen03g023670.1	2.5	4.752	1	22	963	984	AUGAGAUGGAAUUAGGGUUUGG	CCAAAUCCCAUCCCAUCUCAU	Tradução
spe-miR1886-1-5p	Sopen01g045460.1	2.0	8.215	1	20	774	793	AUGAGAUGGAAUUAGGGUUU	AAACCCUAAUUAUCUCUJU	Clivagem
spe-miR1886-1-5p	Sopen07g014840.1	2.5	15.771	1	24	368	391	AUGAGAUGGAAUUAGGGUUUGGAC	GCUCCAGCCAAUUAUCCAUCUCAU	Clivagem
spe-miR1886-1-5p	Sopen09g007670.1	2.0	16.812	1	20	2000	2019	AUGAGAUGGAAUUAGGGUUU	AAACCUUCAUCCAUCUUAU	Clivagem
spe-miR1886-1-5p	Sopen08g022040.1	2.5	13.594	1	20	87	106	AUGAGAUGGAAUUAGGGUUU	AAACCCUAAUUCUUUUCGU	Clivagem
spe-miR1886-1-5p	Sopen09g003340.1	3.0	22.237	1	21	778	798	AUGAGAUGGAAUUAGGGUUUG	CAAGUCCUAAUUAUUCUCAU	Tradução
spe-miR1886-1-5p	Sopen01g037720.1	3.0	8.993	1	22	139	159	AUGAGAUGGAAUUAGGGUUUGG	CUAAACCCUAGUCCA-CUCAU	Clivagem
spe-miR1886-1-5p	Sopen12g003880.1	3.0	8.209	1	22	28	49	AUGAGAUGGAAUUAGGGUUUGG	UCAAUCCAUAUUAUUAUUAU	Clivagem
spe-miR1886-1-5p	Sopen01g002520.1	3.0	14.641	1	20	32	51	AUGAGAUGGAAUUAGGGUUU	AAACCCUAAUCCAUCUUGG	Tradução
spe-miR1886-2-3p	Sopen04g005360.1	3.0	16.82	1	23	1889	1911	AUUUUACGCUGAUUCCAUCUCAU	AGGGGAUGGAAUCAGAGAAAAAU	Clivagem
spe-miR1886-2-3p	Sopen06g009720.1	3.0	15.743	1	21	516	536	AUUUUACGCUGAUUCCAUCUC	GAGAGAGAGUCAGCGUAAGAU	Clivagem
spe-miR1886-2-3p	Sopen03g026190.1	3.0	18.972	1	21	337	356	AUUUUACGCUGAUUCCAUCUC	GAGAUGGAAUCA-CGUAAAAC	Tradução
spe-miR1886-2-3p	Sopen02g016750.1	3.0	16.447	1	20	471	490	AUUUUACGCUGAUUCCAUCU	AGAUGGAAUUAUGUAAAAU	Tradução
spe-miR1886-2-3p	Sopen02g037940.1	3.0	24.795	1	20	1060	1079	AUUUUACGCUGAUUCCAUCU	AAUUGGGAGCAGCGUGAAAAU	Clivagem
spe-miR1886-2-3p	Sopen02g016740.1	3.0	12.431	1	20	579	598	AUUUUACGCUGAUUCCAUCU	AGAUGGAAUUAUGUAAAAU	Tradução
spe-miR1886-2-5p	Sopen11g001080.1	3.0	8.394	1	23	46	68	AUGGUAUCGUGAGAUGAAAUCAG	UUUGUUUAUCCCAUGAUACCAG	Clivagem
spe-miR1886-2-5p	Sopen06g023840.1	3.0	15.457	1	21	3675	3695	AUGGUAUCGUGAGAUGAAAUC	GAUUUCAGCUAAUGAUGCCAU	Tradução
spe-miR1886-2-5p	Sopen02g007230.1	3.0	23.314	1	20	6223	6242	AUGGUAUCGUGAGAUGAAAUC	AUUUCAUCUGACCAUGCUAU	Tradução
spe-miR1886-2-5p	Sopen01g001220.1	3.0	7.4	1	20	461	481	AUGGUAU-CGUGAGAUGAAAUC	AUUUCAUCACGCAUACCAU	Clivagem
spe-miR1886h-1-3p	Sopen03g020610.1	3.0	11.766	1	22	4116	4137	AUUUUACGUUGAUUUCAUCUCA	UGAGGUGAAAUCAAGCAAAAU	Clivagem

spe-miR1886h-1-3p	Sopen02g016750.1	2.5	16.447	1	20	471	490	AUUUUACGUUGAUUUCAUCU	AGAUGGAAUUC AUGUAAAAU	Tradução
spe-miR1886h-1-3p	Sopen02g016740.1	2.5	12.431	1	20	579	598	AUUUUACGUUGAUUUCAUCU	AGAUGGAAUUC AUGUAAAAU	Tradução
spe-miR1886h-1-3p	Sopen11g010690.1	3.0	16.03	1	20	273	292	AUUUUACGUUGAUUUCAUCU	AGAUGAGAUCAAAGUAGAAA	Clivagem
spe-miR1886h-1-3p	Sopen11g021030.1	3.0	11.701	1	20	261	280	AUUUUACGUUGAUUUCAUCU	AGAUGAGAUCAAAGUAGAAA	Clivagem
spe-miR1886h-1-3p	Sopen03g028420.1	3.0	17.441	1	20	1836	1855	AUUUUACGUUGAUUUCAUCU	AGAUGAGGUCAAGGUGAGAU	Clivagem
spe-miR1886h-2-5p	Sopen03g020610.1	3.0	11.766	1	22	4116	4137	AUUUUACGUUGAUUUCAUCUCA	UGAGGUGAAAUCAAGCAAAAU	Clivagem
spe-miR1886h-2-5p	Sopen02g016750.1	2.5	16.447	1	20	471	490	AUUUUACGUUGAUUUCAUCU	AGAUGGAAUUC AUGUAAAAU	Tradução
spe-miR1886h-2-5p	Sopen02g016740.1	2.5	12.431	1	20	579	598	AUUUUACGUUGAUUUCAUCU	AGAUGGAAUUC AUGUAAAAU	Tradução
spe-miR1886h-2-5p	Sopen11g010690.1	3.0	16.03	1	20	273	292	AUUUUACGUUGAUUUCAUCU	AGAUGAGAUCAAAGUAGAAA	Clivagem
spe-miR1886h-2-5p	Sopen11g021030.1	3.0	11.701	1	20	261	280	AUUUUACGUUGAUUUCAUCU	AGAUGAGAUCAAAGUAGAAA	Clivagem
spe-miR1886h-2-5p	Sopen03g028420.1	3.0	17.441	1	20	1836	1855	AUUUUACGUUGAUUUCAUCU	AGAUGAGGUCAAGGUGAGAU	Clivagem
spe-miR1917-1-5p	Sopen01g028250.1	3.0	18.068	1	20	77	96	AUUAAUAAAGAGUGCUAAAG	CUUUAGUCCUCUUUAUUCAU	Clivagem
spe-miR1917-1-5p	Sopen11g005350.1	3.0	15.458	1	20	938	957	AUUAAUAAAGAGUGCUAAAG	CGUUGGCACUUUUUAUUGGU	Clivagem
spe-miR1917-2-5p	Sopen01g028250.1	3.0	18.068	1	20	77	96	AUUAAUAAAGAGUGCUAAAG	CUUUAGUCCUCUUUAUUCAU	Clivagem
spe-miR1917-2-5p	Sopen11g005350.1	3.0	15.458	1	20	938	957	AUUAAUAAAGAGUGCUAAAG	CGUUGGCACUUUUUAUUGGU	Clivagem
spe-miR1917-3-5p	Sopen01g028250.1	3.0	18.068	1	20	77	96	AUUAAUAAAGAGUGCUAAAG	CUUUAGUCCUCUUUAUUCAU	Clivagem
spe-miR1917-3-5p	Sopen11g005350.1	3.0	15.458	1	20	938	957	AUUAAUAAAGAGUGCUAAAG	CGUUGGCACUUUUUAUUGGU	Clivagem
spe-miR1917-4-5p	Sopen01g028250.1	3.0	18.068	1	20	77	96	AUUAAUAAAGAGUGCUAAAG	CUUUAGUCCUCUUUAUUCAU	Clivagem
spe-miR1917-4-5p	Sopen11g005350.1	3.0	15.458	1	20	938	957	AUUAAUAAAGAGUGCUAAAG	CGUUGGCACUUUUUAUUGGU	Clivagem
spe-miR1918-5p	Sopen10g023960.1	2.5	13.436	1	21	71	91	UGUUGGUGAGAGUUCGAUUCU	GGAAUCGAACUCUUGUCAUUG	Clivagem
spe-miR1918-5p	Sopen09g033270.1	2.5	9.371	1	21	5	25	UGUUGGUGAGAGUUCGAUUCU	AGAAUCAAGUUUCACCAACA	Clivagem
spe-miR1918-5p	Sopen07g022010.1	3.0	13.106	1	20	991	1010	UGUUGGUGAGAGUUCGAUUC	CAGUUGCACUCUCACCAACA	Clivagem
spe-miR1918-5p	Sopen01g022820.1	3.0	20.729	1	20	192	211	UGUUGGUGAGAGUUCGAUUC	GAAUAGAACUCUUAUUGACA	Clivagem
spe-miR1918-5p	Sopen01g049270.1	3.0	10.961	1	21	282	302	UGUUGGUGAGAGUUCGAUUCU	GGAAUGGAAAUUUCAUCAACA	Clivagem
spe-miR1919-3p	Sopen07g022430.1	3.0	20.645	1	21	357	377	ACGAGAGUCAUCUGUGACAGG	UCUGUUACAGUUGCUUCUCGU	Tradução
spe-miR1919-5p	Sopen08g021500.1	1.0	16.833	1	20	288	307	UGUCGCAGAUGACUUUCGCC	CGCGAAAGUCAUCUGCGACA	Clivagem
spe-miR1919-5p	Sopen08g021530.1	1.0	16.636	1	20	285	304	UGUCGCAGAUGACUUUCGCC	CGCGAAAGUCAUCUGCGACA	Clivagem
spe-miR1919-5p	Sopen08g021530.1	2.0	22.971	1	21	463	483	UGUCGCAGAUGACUUUCGCC	GGACGAGAGUCAUCUGUGACA	Clivagem
spe-miR1919-5p	Sopen12g008360.1	2.0	24.875	1	21	176	196	UGUCGCAGAUGACUUUCGCC	GGACGAGAGUCAUCUGUGACA	Clivagem
spe-miR1919c-3p	Sopen07g022430.1	3.0	20.645	1	21	357	377	ACGAGAGUCAUCUGUGACAGG	UCUGUUACAGUUGCUUCUCGU	Tradução
spe-miR1919c-5p	Sopen08g021500.1	1.0	16.833	1	20	288	307	UGUCGCAGAUGACUUUCGCC	CGCGAAAGUCAUCUGCGACA	Clivagem
spe-miR1919c-5p	Sopen08g021530.1	1.0	16.636	1	20	285	304	UGUCGCAGAUGACUUUCGCC	CGCGAAAGUCAUCUGCGACA	Clivagem
spe-miR1919c-5p	Sopen08g021530.1	2.0	22.971	1	21	463	483	UGUCGCAGAUGACUUUCGCC	GGACGAGAGUCAUCUGUGACA	Clivagem
spe-miR1919c-5p	Sopen12g008360.1	2.0	24.875	1	21	176	196	UGUCGCAGAUGACUUUCGCC	GGACGAGAGUCAUCUGUGACA	Clivagem
spe-miR2111a-3p	Sopen09g019750.1	3.0	16.903	1	21	214	234	GUCCUUAGGAUGCAGAUUAUC	GAUAAUCUUUAUUUAAGGAU	Clivagem

spe-miR2111a-5p	Sopen07g005160.1	1.0	11.53	1	20	187	206	UAAUCUGCAUCCUGAGGUUU	CAACCUCAGGAUGCAGAUUA	Clivagem
spe-miR2111a-5p	Sopen03g040700.1	2.5	17.718	1	20	637	656	UAAUCUGCAUCCUGAGGUUU	GGAUCUCAGGUUGCAGAUUA	Tradução
spe-miR2111a-5p	Sopen03g040700.2	2.5	17.718	1	20	829	848	UAAUCUGCAUCCUGAGGUUU	GGAUCUCAGGUUGCAGAUUA	Tradução
spe-miR2111a-5p	Sopen02g036490.1	3.0	16.995	1	20	191	210	UAAUCUGCAUCCUGAGGUUU	AAAACUCAGGAUGUGGAUUU	Clivagem
spe-miR2111a-5p	Sopen01g010570.1	3.0	15.506	1	21	222	242	UAAUCUGCAUCCUGAGGUUUA	UAAACAUUCUGGAUACAGAUUA	Clivagem
spe-miR2111a-5p	Sopen03g008380.1	3.0	12.617	1	21	621	641	UAAUCUGCAUCCUGAGGUUUA	UAAACAUCGGAUACAGAUUA	Clivagem
spe-miR2111a-5p	Sopen12g014850.1	3.0	16.541	1	21	873	893	UAAUCUGCAUCCUGAGGUUUA	UAAACAUCGGAUACAGAUUA	Clivagem
spe-miR2111a-5p	Sopen02g007970.1	3.0	17.327	1	21	1263	1283	UAAUCUGCAUCCUGAGGUUUA	UAAACAUCGGAUACAGAUUA	Clivagem
spe-miR2111a-5p	Sopen01g025550.1	3.0	14.877	1	21	2265	2285	UAAUCUGCAUCCUGAGGUUUA	UAAACAUCGGAUACAGAUUA	Clivagem
spe-miR2111a-5p	Sopen07g020190.1	3.0	15.739	1	21	2757	2777	UAAUCUGCAUCCUGAGGUUUA	UAAACAUCUGGAUACAGAUUA	Clivagem
spe-miR2111a-5p	Sopen08g015370.1	3.0	13.082	1	21	2307	2327	UAAUCUGCAUCCUGAGGUUUA	UAAACAUCGGAUACAGAUUA	Clivagem
spe-miR2111a-5p	Sopen12g014850.2	3.0	16.541	1	21	3414	3434	UAAUCUGCAUCCUGAGGUUUA	UAAACAUCGGAUACAGAUUA	Clivagem
spe-miR2111a-5p	Sopen01g016360.1	3.0	12.931	1	21	3342	3362	UAAUCUGCAUCCUGAGGUUUA	UAAACAUCGGAUACAGAUUA	Clivagem
spe-miR2111a-5p	Sopen03g019160.1	3.0	11.314	1	21	4017	4037	UAAUCUGCAUCCUGAGGUUUA	UAAACAUCGGAUACAGAUUA	Clivagem
spe-miR2111a-5p	Sopen08g023600.1	3.0	14.162	1	21	6255	6275	UAAUCUGCAUCCUGAGGUUUA	UAAACAUCGGAUACAGAUUA	Clivagem
spe-miR2111a-5p	Sopen04g006190.1	3.0	10.49	1	20	705	724	UAAUCUGCAUCCUGAGGUUU	AGACCCUAUGAUGCAGAUUA	Clivagem
spe-miR2111a-5p	Sopen03g031690.1	3.0	17.741	1	20	202	221	UAAUCUGCAUCCUGAGGUUU	AAAGUUCAGGUUGCAGAUUG	Tradução
spe-miR319-1-3p	Sopen01g004560.2	2.5	23.404	1	20	956	975	UUGGACUGAAGGGAGCUCCC	UGGAGCUCCCUUCACUCCAA	Clivagem
spe-miR319-1-3p	Sopen01g004560.1	2.5	23.404	1	20	926	945	UUGGACUGAAGGGAGCUCCC	UGGAGCUCCCUUCACUCCAA	Clivagem
spe-miR319-1-3p	Sopen02g023820.1	2.5	23.619	1	20	305	324	UUGGACUGAAGGGAGCUCCC	CGGAGCUUCAUUCAGUCCAA	Tradução
spe-miR319-1-3p	Sopen06g010440.1	3.0	22.135	1	21	458	478	UUGGACUGAAGGGAGCUCCCU	AGGCGGUUCCCAUCAGUCCAA	Tradução
spe-miR319-1-3p	Sopen07g027370.1	3.0	13.764	1	21	736	755	UUGGACUGAAGGGAGCUCCCU	AGGGAAC-CCCUUCAGUCCAA	Clivagem
spe-miR319-1-5p	Sopen09g012310.1	3.0	19.225	1	20	1573	1592	GAGCUCUCUCCGUCCAGUC	AACUGGAUUGGAGAGGGUUC	Clivagem
spe-miR319-1-5p	Sopen04g001560.1	3.0	22.356	1	20	2260	2279	GAGCUCUCUCCGUCCAGUC	GAUUAACCGGAGAGGGCUC	Clivagem
spe-miR319-2-3p	Sopen01g004560.2	2.5	23.404	1	20	956	975	UUGGACUGAAGGGAGCUCCC	UGGAGCUCCCUUCACUCCAA	Clivagem
spe-miR319-2-3p	Sopen01g004560.1	2.5	23.404	1	20	926	945	UUGGACUGAAGGGAGCUCCC	UGGAGCUCCCUUCACUCCAA	Clivagem
spe-miR319-2-3p	Sopen02g023820.1	2.5	23.619	1	20	305	324	UUGGACUGAAGGGAGCUCCC	CGGAGCUUCAUUCAGUCCAA	Tradução
spe-miR319-2-3p	Sopen06g010440.1	3.0	22.135	1	21	458	478	UUGGACUGAAGGGAGCUCCCU	AGGCGGUUCCCAUCAGUCCAA	Tradução
spe-miR319-2-3p	Sopen07g027370.1	3.0	13.764	1	21	736	755	UUGGACUGAAGGGAGCUCCCU	AGGGAAC-CCCUUCAGUCCAA	Clivagem
spe-miR319-2-5p	Sopen04g033650.1	2.5	17.268	1	21	406	426	AGAGCUUCCUUUAGUCCACUC	GAGUGGAUUGAGGAAGCUUG	Clivagem
spe-miR319-2-5p	Sopen01g051280.1	3.0	17.778	1	21	9279	9299	AGAGCUUCCUUUAGUCCACUC	GAGUGAGUUGAAGGAGGCUCU	Clivagem
spe-miR319-2-5p	Sopen03g022580.1	2.5	24.686	1	20	203	222	AGAGCUUCCUUUAGUCCACU	ACUGGACUGAAGGGGGCUCU	Clivagem
spe-miR319-2-5p	Sopen12g034860.1	3.0	19.79	1	21	846	866	AGAGCUUCCUUUAGUCCACUC	GAGUUGGCUAAAAGGAGCUCU	Tradução
spe-miR319-2-5p	Sopen08g015520.1	3.0	19.893	1	21	522	542	AGAGCUUCCUUUAGUCCACUC	GAGUGAAUUAAGAAGCUUU	Tradução
spe-miR319-2-5p	Sopen07g029050.1	3.0	13.615	1	20	605	624	AGAGCUUCCUUUAGUCCACU	ACUGGACUAAAGGAGGCUUG	Clivagem

spe-miR319-2-5p	Sopen06g019680.1	3.0	17.972	1	20	1135	1154	AGAGCUUCCUUUAGUCCACU	AGUGGAUCAAAGGCAGCUCU	Clivagem
spe-miR319-2-5p	Sopen04g029080.1	3.0	23.447	1	20	73	92	AGAGCUUCCUUUAGUCCACU	GGUGAAUUAUUGGAAGCUCU	Tradução
spe-miR319-2-5p	Sopen07g012230.1	3.0	23.431	1	20	490	509	AGAGCUUCCUUUAGUCCACU	AGGGGACUAGGGAAAGCUCU	Clivagem
spe-miR319-2-5p	Sopen08g029370.1	3.0	13.082	1	20	1462	1481	AGAGCUUCCUUUAGUCCACU	AAUGAGCUAAAGGAAGCUUU	Clivagem
spe-miR319-2-5p	Sopen10g017000.1	3.0	20.94	1	20	172	191	AGAGCUUCCUUUAGUCCACU	AGUGCACUAGUGGAGGCUCU	Tradução
spe-miR319-2-5p	Sopen03g036860.1	3.0	16.679	1	20	493	512	AGAGCUUCCUUUAGUCCACU	AUUGGAAUAGAGGAAGCUUU	Clivagem
spe-miR319-2-5p	Sopen03g032150.1	2.5	21.519	1	20	2574	2592	AGAGCUUCCUUUAGUCCACU	AGUGG-CUGAAGGAAGCUCU	Clivagem
spe-miR319-2-5p	Sopen01g002330.1	3.0	13.716	1	20	178	197	AGAGCUUCCUUUAGUCCACU	AAUGGACUAAUUGAAGCUCU	Tradução
spe-miR319-2-5p	Sopen03g036300.3	3.0	23.837	1	20	385	403	AGAGCUUCCUUUAGUCCACU	AGUGGUCUAAAAG-AAGCUCU	Clivagem
spe-miR319-3-3p	Sopen01g044170.4	1.5	14.769	1	21	319	339	UUGGACUGAAGGGUUCCCUUC	GAAGGGACUUUUUAGUCCAA	Clivagem
spe-miR319-3-3p	Sopen01g044170.5	1.5	14.769	1	21	856	876	UUGGACUGAAGGGUUCCCUUC	GAAGGGACUUUUUAGUCCAA	Clivagem
spe-miR319-3-3p	Sopen01g044170.3	1.5	14.769	1	21	913	933	UUGGACUGAAGGGUUCCCUUC	GAAGGGACUUUUUAGUCCAA	Clivagem
spe-miR319-3-3p	Sopen01g044170.6	1.5	14.769	1	21	913	933	UUGGACUGAAGGGUUCCCUUC	GAAGGGACUUUUUAGUCCAA	Clivagem
spe-miR319-3-3p	Sopen08g015840.1	1.0	13.556	1	20	868	887	UUGGACUGAAGGGUUCCCUU	AGGGGGACCCUUCAGUCCAA	Clivagem
spe-miR319-3-3p	Sopen08g010620.1	1.0	13.112	1	20	1021	1040	UUGGACUGAAGGGUUCCCUU	AGGGGGACCCUUCAGUCCAA	Clivagem
spe-miR319-3-3p	Sopen08g010620.2	1.0	13.112	1	20	1081	1100	UUGGACUGAAGGGUUCCCUU	AGGGGGACCCUUCAGUCCAA	Clivagem
spe-miR319-3-3p	Sopen12g005920.1	2.0	12.321	1	21	915	935	UUGGACUGAAGGGUUCCCUUC	GAGGGGACCCUUCAGUCCAG	Clivagem
spe-miR319-3-3p	Sopen07g030910.1	2.0	11.934	1	21	936	956	UUGGACUGAAGGGUUCCCUUC	GAGGGGACCCUUCAGUCCAG	Clivagem
spe-miR319-3-3p	Sopen07g027370.1	2.0	13.764	1	20	735	755	UUGGACUGAA-GGGUUCCCUU	AAGGGAACCCCUUCAGUCCAA	Tradução
spe-miR319-3-3p	Sopen02g039300.1	3.0	21.044	1	21	10642	10662	UUGGACUGAAGGGUUCCCUUC	GAUGGGAAUCCUACAGUUCAA	Tradução
spe-miR319-3-3p	Sopen01g007840.1	2.5	11.538	1	19	750	769	UUGGACUGAA-GGGUUCCCU	AGGGAACCCCUUCAGUCCAG	Tradução
spe-miR319-3-3p	Sopen06g007580.1	2.5	11.538	1	19	750	769	UUGGACUGAA-GGGUUCCCU	AGGGAACCCCUUCAGUCCAG	Tradução
spe-miR319-3-3p	Sopen07g025650.1	2.5	11.538	1	19	750	769	UUGGACUGAA-GGGUUCCCU	AGGGAACCCCUUCAGUCCAG	Tradução
spe-miR319-3-3p	Sopen02g022170.1	2.5	14.239	1	19	688	707	UUGGACUGAA-GGGUUCCCU	AGGGAACCCCUUCAGUCCAG	Tradução
spe-miR319-3-3p	Sopen04g017180.1	2.5	11.538	1	19	822	841	UUGGACUGAA-GGGUUCCCU	AGGGAACCCCUUCAGUCCAG	Tradução
spe-miR319-3-3p	Sopen03g012280.1	2.5	13.541	1	19	823	842	UUGGACUGAA-GGGUUCCCU	AGGGAACCCCUUCAGUCCAG	Tradução
spe-miR319-3-3p	Sopen08g027000.1	3.0	12.81	1	20	1080	1099	UUGGACUGAAGGGUUCCCUU	AAGGCAACUCAUCAGUUCAA	Tradução
spe-miR319-3-3p	Sopen12g015990.1	2.5	11.538	1	19	6750	6769	UUGGACUGAA-GGGUUCCCU	AGGGAACCCCUUCAGUCCAG	Tradução
spe-miR319-3-5p	Sopen12g033930.1	2.0	23.5	1	20	569	588	AGGAAACUGUUUAGUCCAAC	GUUGGACUGGACAGUUUCCA	Clivagem
spe-miR319-3-5p	Sopen05g033370.3	2.5	20.17	1	20	1352	1371	AGGAAACUGUUUAGUCCAAC	GUUGGAAUAAACAGUUUUA	Clivagem
spe-miR319-3-5p	Sopen05g033370.1	2.5	20.17	1	20	1694	1713	AGGAAACUGUUUAGUCCAAC	GUUGGAAUAAACAGUUUUA	Clivagem
spe-miR319-3-5p	Sopen05g033370.4	2.5	20.17	1	20	1751	1770	AGGAAACUGUUUAGUCCAAC	GUUGGAAUAAACAGUUUUA	Clivagem
spe-miR319-3-5p	Sopen06g014680.1	2.5	16.926	1	20	449	468	AGGAAACUGUUUAGUCCAAC	GGUGGAUUGAACAGUUUCUU	Clivagem
spe-miR319-3-5p	Sopen07g004960.1	3.0	21.518	1	20	59	78	AGGAAACUGUUUAGUCCAAC	GUUGGACGGACCAGUUUCUU	Tradução
spe-miR319-3-5p	Sopen09g007030.1	3.0	17.845	1	20	344	363	AGGAAACUGUUUAGUCCAAC	GUCGGACUAAAUCGUUUUCU	Clivagem

spe-miR319-3-5p	Sopen03g041220.1	3.0	12.529	1	20	30	49	AGGAAACUGUUUAGUCCAAC	GUUGGAGAAAACAGUUUUUU	Clivagem
spe-miR319-3-5p	Sopen01g032980.1	3.0	14.133	1	20	917	935	AGGAAACUGUUUAGUCCAAC	GUUGGACUAG-CAGUUUUUCU	Tradução
spe-miR319-3-5p	Sopen09g001490.1	3.0	18.087	1	20	273	291	AGGAAACUGUUUAGUCCAAC	GUUGGA-UAAUCAGUUUCCU	Tradução
spe-miR319-4-3p	Sopen01g044170.4	2.0	14.769	1	21	319	339	UUGGACUGAAGGGUUUCCUUC	GAAGGGAACUUUUUAGUCCAA	Clivagem
spe-miR319-4-3p	Sopen01g044170.5	2.0	14.769	1	21	856	876	UUGGACUGAAGGGUUUCCUUC	GAAGGGAACUUUUUAGUCCAA	Clivagem
spe-miR319-4-3p	Sopen01g044170.3	2.0	14.769	1	21	913	933	UUGGACUGAAGGGUUUCCUUC	GAAGGGAACUUUUUAGUCCAA	Clivagem
spe-miR319-4-3p	Sopen01g044170.6	2.0	14.769	1	21	913	933	UUGGACUGAAGGGUUUCCUUC	GAAGGGAACUUUUUAGUCCAA	Clivagem
spe-miR319-4-3p	Sopen08g015840.1	1.5	13.556	1	20	868	887	UUGGACUGAAGGGUUUCCUU	AGGGGGACCCUUCAGUCCAA	Clivagem
spe-miR319-4-3p	Sopen08g010620.1	1.5	13.112	1	20	1021	1040	UUGGACUGAAGGGUUUCCUU	AGGGGGACCCUUCAGUCCAA	Clivagem
spe-miR319-4-3p	Sopen08g010620.2	1.5	13.112	1	20	1081	1100	UUGGACUGAAGGGUUUCCUU	AGGGGGACCCUUCAGUCCAA	Clivagem
spe-miR319-4-3p	Sopen07g027370.1	1.5	13.764	1	20	736	755	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAA	Clivagem
spe-miR319-4-3p	Sopen12g005920.1	2.5	12.321	1	21	915	935	UUGGACUGAAGGGUUUCCUUC	GAGGGGACCCCUUCAGUCCAG	Clivagem
spe-miR319-4-3p	Sopen07g030910.1	2.5	11.934	1	21	936	956	UUGGACUGAAGGGUUUCCUUC	GAGGGGACCCCUUCAGUCCAG	Clivagem
spe-miR319-4-3p	Sopen01g035040.1	2.5	15.284	1	21	1484	1504	UUGGACUGAAGGGUUUCCUUC	GGAGGAAACACUUUGGUCCAA	Clivagem
spe-miR319-4-3p	Sopen01g007840.1	2.0	11.538	1	20	750	769	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAG	Clivagem
spe-miR319-4-3p	Sopen06g007580.1	2.0	11.538	1	20	750	769	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAG	Clivagem
spe-miR319-4-3p	Sopen07g025650.1	2.0	11.538	1	20	750	769	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAG	Clivagem
spe-miR319-4-3p	Sopen04g017180.1	2.0	11.538	1	20	822	841	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAG	Clivagem
spe-miR319-4-3p	Sopen02g022170.1	2.0	14.239	1	20	688	707	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAG	Clivagem
spe-miR319-4-3p	Sopen03g012280.1	2.0	13.541	1	20	823	842	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAG	Clivagem
spe-miR319-4-3p	Sopen12g015990.1	2.0	11.538	1	20	6750	6769	UUGGACUGAAGGGUUUCCUU	AGGGAACCCCUUCAGUCCAG	Clivagem
spe-miR319-4-3p	Sopen02g021440.1	3.0	17.604	1	21	2692	2712	UUGGACUGAAGGGUUUCCUUC	GAAGGAAAUGUCCAGUCCAA	Tradução
spe-miR319-4-3p	Sopen10g005500.1	3.0	16.274	1	20	1507	1526	UUGGACUGAAGGGUUUCCUU	AGGGAAAUCCUACAGUCUGA	Tradução
spe-miR319-4-3p	Sopen08g027000.1	3.0	12.81	1	20	1080	1099	UUGGACUGAAGGGUUUCCUU	AAGGCAACUCAUCAGUUCAA	Tradução
spe-miR319-4-3p	Sopen08g023950.1	3.0	14.447	1	20	179	198	UUGGACUGAAGGGUUUCCUU	AAGCAGAACCUUCAGUUCAA	Clivagem
spe-miR319-4-3p	Sopen07g019740.1	3.0	20.469	1	20	380	399	UUGGACUGAAGGGUUUCCUU	AGGGAAACAUGUCAGUCCAA	Tradução
spe-miR319a-3p	Sopen01g004560.2	2.5	21.371	1	20	957	976	CUUGGACUGAAGGGAGCUCC	GGAGCUCCCUUCACUCCAAA	Clivagem
spe-miR319a-3p	Sopen01g004560.1	2.5	21.371	1	20	927	946	CUUGGACUGAAGGGAGCUCC	GGAGCUCCCUUCACUCCAAA	Clivagem
spe-miR319a-3p	Sopen02g023820.1	2.5	23.601	1	20	306	325	CUUGGACUGAAGGGAGCUCC	GGAGCUUCAUUCAGUCCAAA	Clivagem
spe-miR319a-3p	Sopen10g015400.1	3.0	13.368	1	20	3	22	CUUGGACUGAAGGGAGCUCC	GGAGUUGCUUUUAGUUCAAG	Clivagem
spe-miR319a-3p	Sopen11g003830.1	3.0	15.002	1	20	1260	1279	CUUGGACUGAAGGGAGCUCC	GGAGCUUCAGUCAGUUCAAG	Tradução
spe-miR319a-5p.1	Sopen05g003530.1	2.0	16.598	1	20	2255	2274	AGAGCUUUCUUCAGUCCACA	UGUGGAUUGGAGAAGGCUUU	Clivagem
spe-miR319a-5p.1	Sopen11g004190.1	3.0	22.351	1	21	281	301	AGAGCUUUCUUCAGUCCACAC	GUGUGGAUUGGGAAGAGCUCU	Tradução
spe-miR319a-5p.1	Sopen05g003520.2	2.5	22.094	1	20	2225	2244	AGAGCUUUCUUCAGUCCACA	UGUGGAUUGCAGAAGGCUUU	Tradução
spe-miR319a-5p.1	Sopen05g003520.1	2.5	22.094	1	20	2225	2244	AGAGCUUUCUUCAGUCCACA	UGUGGAUUGCAGAAGGCUUU	Tradução

spe-miR319a-5p.1	Sopen01g037870.1	3.0	18.866	1	20	1829	1848	AGAGCUUUCUUCAGUCCACA	AGUUGGCUGAAGAAAGUUCU	Clivagem
spe-miR319a-5p.1	Sopen02g019490.1	3.0	17.391	1	20	752	771	AGAGCUUUCUUCAGUCCACA	UGUGGGCUGCAGAAGGUUUU	Tradução
spe-miR319a-5p.1	Sopen02g011310.1	3.0	23.883	1	20	1278	1297	AGAGCUUUCUUCAGUCCACA	UGUUGACUGUGGAAAGCUUU	Tradução
spe-miR319a-5p.1	Sopen01g011080.1	3.0	21.598	1	20	286	305	AGAGCUUUCUUCAGUCCACA	UAUGUAGUGAAGAAAGCUCU	Clivagem
spe-miR319a-5p.1	Sopen12g018410.1	3.0	19.295	1	20	103	122	AGAGCUUUCUUCAGUCCACA	UAUGUAGUGAAGAAAGCUCU	Clivagem
spe-miR319a-5p.1	Sopen02g032720.1	3.0	19.008	1	20	3070	3089	AGAGCUUUCUUCAGUCCACA	UGUGAUCUUAAGAAAGCUCU	Clivagem
spe-miR319a-5p.2	Sopen01g040400.3	3.0	16.266	1	22	1390	1411	UUGCUGCCGACUCAUUCAUCCA	UGGAUGGUUGAGUUAGCAGCAA	Clivagem
spe-miR319a-5p.2	Sopen01g040400.2	3.0	16.266	1	22	1390	1411	UUGCUGCCGACUCAUUCAUCCA	UGGAUGGUUGAGUUAGCAGCAA	Clivagem
spe-miR319a-5p.2	Sopen01g031030.2	2.5	17.719	1	20	42	61	UUGCUGCCGACUCAUUCAUC	GGUGGAUGACUCGGCAGCGA	Tradução
spe-miR319a-5p.2	Sopen01g031030.1	2.5	17.719	1	20	42	61	UUGCUGCCGACUCAUUCAUC	GGUGGAUGACUCGGCAGCGA	Tradução
spe-miR319a-5p.2	Sopen02g037960.1	2.5	21.503	1	20	298	316	UUGCUGCCGACUCAUUCAUC	GAUGAAUG-GUUGGCAGCAA	Clivagem
spe-miR319a-5p.2	Sopen02g024930.1	3.0	17.785	1	20	543	562	UUGCUGCCGACUCAUUCAUC	GUUGAAUGAUUUUGGUAGCAA	Tradução
spe-miR319a-5p.2	Sopen02g024920.1	3.0	17.785	1	20	543	562	UUGCUGCCGACUCAUUCAUC	GUUGAAUGAUUUUGGUAGCAA	Tradução
spe-miR319a-5p.2	Sopen02g024940.1	3.0	17.933	1	20	549	568	UUGCUGCCGACUCAUUCAUC	GUUGAAUGAUUUUGGUAGCAA	Tradução
spe-miR319a-5p.2	Sopen08g028280.1	3.0	23.386	1	20	237	256	UUGCUGCCGACUCAUUCAUC	GAUGAAAGGGUUUGCAGCAA	Clivagem
spe-miR319a-5p.2	Sopen08g028260.1	3.0	22.344	1	20	240	259	UUGCUGCCGACUCAUUCAUC	GAUGAAAGGGUUUGCAGCAA	Clivagem
spe-miR319c-1-3p	Sopen01g004560.1	2.5	23.404	1	20	926	945	UUGGACUGAAGGGAGCUCCU	UGGAGCUCCCUUCACUCCAA	Clivagem
spe-miR319c-1-3p	Sopen01g004560.2	2.5	23.404	1	20	956	975	UUGGACUGAAGGGAGCUCCU	UGGAGCUCCCUUCACUCCAA	Clivagem
spe-miR319c-1-3p	Sopen02g023820.1	2.5	23.619	1	20	305	324	UUGGACUGAAGGGAGCUCCU	CGGAGCUUCAUUCAGUCCAA	Tradução
spe-miR319c-1-3p	Sopen02g007680.1	2.5	18.32	1	20	1701	1720	UUGGACUGAAGGGAGCUCCU	AGGAGCUCCAUUCAGUUCAU	Tradução
spe-miR319c-1-3p	Sopen08g015840.1	2.5	13.556	1	20	868	887	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAA	Clivagem
spe-miR319c-1-3p	Sopen08g010620.1	2.5	13.112	1	20	1021	1040	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAA	Clivagem
spe-miR319c-1-3p	Sopen08g010620.2	2.5	13.112	1	20	1081	1100	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAA	Clivagem
spe-miR319c-1-3p	Sopen12g005920.1	3.0	12.321	1	20	916	935	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAG	Clivagem
spe-miR319c-1-3p	Sopen07g030910.1	3.0	11.934	1	20	937	956	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAG	Clivagem
spe-miR319c-1-3p	Sopen11g003830.1	3.0	14.76	1	20	1259	1278	UUGGACUGAAGGGAGCUCCU	AGGAGCUUCAGUCAGUUCAA	Tradução
spe-miR319c-1-3p	Sopen08g022660.1	3.0	20.017	1	20	935	954	UUGGACUGAAGGGAGCUCCU	AGGAUCUCAUUUCAGUUCAA	Clivagem
spe-miR319c-2-3p	Sopen01g004560.1	2.5	23.404	1	20	926	945	UUGGACUGAAGGGAGCUCCU	UGGAGCUCCCUUCACUCCAA	Clivagem
spe-miR319c-2-3p	Sopen01g004560.2	2.5	23.404	1	20	956	975	UUGGACUGAAGGGAGCUCCU	UGGAGCUCCCUUCACUCCAA	Clivagem
spe-miR319c-2-3p	Sopen02g007680.1	2.5	18.32	1	21	1700	1720	UUGGACUGAAGGGAGCUCCU	GAGGAGCUCCAUUCAGUUCAU	Tradução
spe-miR319c-2-3p	Sopen02g023820.1	2.5	23.619	1	20	305	324	UUGGACUGAAGGGAGCUCCU	CGGAGCUUCAUUCAGUCCAA	Tradução
spe-miR319c-2-3p	Sopen11g003830.1	3.0	14.76	1	21	1258	1278	UUGGACUGAAGGGAGCUCCU	AAGGAGCUUCAGUCAGUUCAA	Tradução
spe-miR319c-2-3p	Sopen08g015840.1	2.5	13.556	1	20	868	887	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAA	Clivagem
spe-miR319c-2-3p	Sopen08g010620.1	2.5	13.112	1	20	1021	1040	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAA	Clivagem
spe-miR319c-2-3p	Sopen08g010620.2	2.5	13.112	1	20	1081	1100	UUGGACUGAAGGGAGCUCCU	AGGGGGACCCUUCAGUCCAA	Clivagem

spe-miR319c-2-3p	Sopen12g005920.1	3.0	12.321	1	21	915	935	UUGGACUGAAGGGAGCUCCUU	GAGGGGACCCCUUCAGUCCAG	Clivagem
spe-miR319c-2-3p	Sopen07g030910.1	3.0	11.934	1	21	936	956	UUGGACUGAAGGGAGCUCCUU	GAGGGGACCCCUUCAGUCCAG	Clivagem
spe-miR319c-2-3p	Sopen08g022660.1	3.0	20.017	1	20	935	954	UUGGACUGAAGGGAGCUCCU	AGGAUCUCAUUUCAGUUCAA	Clivagem
spe-miR319c-2-5p.1	Sopen01g051280.1	2.0	17.778	1	21	9279	9299	AGAGCUUCCUUCAGCCCACUC	GAGUGAGUUGAAGGAGGCUCU	Clivagem
spe-miR319c-2-5p.1	Sopen06g017720.1	3.0	19.824	1	21	1764	1784	AGAGCUUCCUUCAGCCCACUC	GAUUGGGUUGAAGGAAGUUCG	Clivagem
spe-miR319c-2-5p.1	Sopen01g030580.1	3.0	20.178	1	20	544	563	AGAGCUUCCUUCAGCCCACU	GGCGGGUUGAAGGAAGCUCA	Clivagem
spe-miR319c-2-5p.1	Sopen01g037870.1	2.5	18.866	1	20	1829	1848	AGAGCUUCCUUCAGCCCACU	AGUUGGCUGAAGAAAGUUCU	Clivagem
spe-miR319c-2-5p.1	Sopen03g022580.1	3.0	24.686	1	20	203	222	AGAGCUUCCUUCAGCCCACU	ACUGGACUGAAGGGGGCUCU	Clivagem
spe-miR319c-2-5p.2	Sopen02g026410.1	3.0	15.061	1	20	900	919	UAGCUGCCGACUCAUUAUC	GGUGAAGGAUUCGGCAGUUA	Tradução
spe-miR319c-2-5p.2	Sopen01g032990.1	3.0	14.197	1	20	6223	6242	UAGCUGCCGACUCAUUAUC	GAUGAAUGUGGCAGCAGCUA	Tradução
spe-miR319c-2-5p.2	Sopen02g018290.1	3.0	22.368	1	20	222	240	UAGCUGCCGACUCAUUAUC	GAUAAAUG-GUCGGCAGCUA	Clivagem
spe-miR319c-3-3p	Sopen07g004840.1	2.5	17.51	1	20	470	489	CUCCAAUGAUGCAGGAGCUG	CAGCACCUUUAUCAUUGGAG	Clivagem
spe-miR319c-3-3p	Sopen12g023650.1	3.0	22.368	1	20	818	837	CUCCAAUGAUGCAGGAGCUG	CAAUCCUGCUUCAUUGGGG	Tradução
spe-miR319c-3-5p	Sopen12g033930.1	2.0	23.5	1	20	569	588	AGGAAACUGUUUAGUCCAAC	GUUGGACUGGACAGUUUCCA	Clivagem
spe-miR319c-3-5p	Sopen05g033370.3	2.5	20.17	1	20	1352	1371	AGGAAACUGUUUAGUCCAAC	GUUGGAAUAAACAGUUUUCA	Clivagem
spe-miR319c-3-5p	Sopen05g033370.1	2.5	20.17	1	20	1694	1713	AGGAAACUGUUUAGUCCAAC	GUUGGAAUAAACAGUUUUCA	Clivagem
spe-miR319c-3-5p	Sopen05g033370.4	2.5	20.17	1	20	1751	1770	AGGAAACUGUUUAGUCCAAC	GUUGGAAUAAACAGUUUUCA	Clivagem
spe-miR319c-3-5p	Sopen06g014680.1	2.5	16.926	1	20	449	468	AGGAAACUGUUUAGUCCAAC	GGUGGAUUGAACAGUUUCUU	Clivagem
spe-miR319c-3-5p	Sopen07g004960.1	3.0	21.518	1	20	59	78	AGGAAACUGUUUAGUCCAAC	GUUGGACGGACCAGUUUCUU	Tradução
spe-miR319c-3-5p	Sopen09g007030.1	3.0	17.845	1	20	344	363	AGGAAACUGUUUAGUCCAAC	GUCGGACUAAAUCGUUUUCU	Clivagem
spe-miR319c-3-5p	Sopen03g041220.1	3.0	12.529	1	20	30	49	AGGAAACUGUUUAGUCCAAC	GUUGGAGAAAACAGUUUUUU	Clivagem
spe-miR319c-3-5p	Sopen01g032980.1	3.0	14.133	1	20	917	935	AGGAAACUGUUUAGUCCAAC	GUUGGACUAG-CAGUUUUUCU	Tradução
spe-miR319c-3-5p	Sopen09g001490.1	3.0	18.087	1	20	273	291	AGGAAACUGUUUAGUCCAAC	GUUGGA-UAAUCAGUUUCCU	Tradução
spe-miR3627-1-3p	Sopen09g033830.1	3.0	12.951	1	21	2152	2172	AAGUGCCUCUGUCUUUCGACA	UGUCAGGACACAGAGGCACUU	Clivagem
spe-miR3627-1-3p	Sopen07g029240.1	3.0	17.631	1	20	1280	1299	AAGUGCCUCUGUCUUUCGAC	GUUGGAAGGCAUGGGCACUU	Tradução
spe-miR3627-1-5p	Sopen04g036520.1	3.0	17.383	1	21	1778	1798	UCGCAGGAGAGAUGGCACUUA	UAAGUGCCAUGGCUUCUGUGA	Tradução
spe-miR3627-1-5p	Sopen06g003870.1	3.0	16.718	1	20	1966	1985	UCGCAGGAGAGAUGGCACUU	AAGUGCCAUCUCGACUGUGA	Clivagem
spe-miR3627-2-3p	Sopen09g033830.1	3.0	12.951	1	21	2152	2172	AAGUGCCUCUGUCUUUCGACA	UGUCAGGACACAGAGGCACUU	Clivagem
spe-miR3627-2-3p	Sopen07g029240.1	3.0	17.631	1	20	1280	1299	AAGUGCCUCUGUCUUUCGAC	GUUGGAAGGCAUGGGCACUU	Tradução
spe-miR3627-2-5p	Sopen09g029910.1	2.5	17.666	1	22	526	547	UUGUCGCAGGAGAGAUGGCACU	AAUGCCUUUUCUCGUGCGACAA	Tradução
spe-miR3627-2-5p	Sopen09g029910.2	2.5	17.666	1	22	526	547	UUGUCGCAGGAGAGAUGGCACU	AAUGCCUUUUCUCGUGCGACAA	Tradução

spe-miR3627-2-5p	Sopen09g030570.1	3.0	16.904	1	20	720	739	UUGUCGCAGGAGAGAUGGCA	UGCUCUCUUUCUUGCGGCAA	Clivagem
spe-miR3627-2-5p	Sopen09g030570.2	3.0	16.904	1	20	720	739	UUGUCGCAGGAGAGAUGGCA	UGCUCUCUUUCUUGCGGCAA	Clivagem
spe-miR3627-2-5p	Sopen12g030330.1	3.0	22.157	1	22	451	472	UUGUCGCAGGAGAGAUGGCACU	ACUGCCAUGUCUCCGGUGGCAA	Clivagem
spe-miR390-3p	Sopen08g020320.1	3.0	11.566	1	20	30	49	CGCUAUCCAUCCUGAGUUUU	CAAAUUUGGGAUGGAUAGUG	Clivagem
spe-miR390-3p	Sopen11g020620.2	3.0	20.041	1	20	10155	10174	CGCUAUCCAUCCUGAGUUUU	AGAAAUUGGGAUGGAUAGUG	Clivagem
spe-miR390-3p	Sopen11g020620.1	3.0	20.041	1	20	10149	10168	CGCUAUCCAUCCUGAGUUUU	AGAAAUUGGGAUGGAUAGUG	Clivagem
spe-miR390-3p	Sopen01g033660.1	3.0	16.979	1	20	783	802	CGCUAUCCAUCCUGAGUUUU	AAAGCUUAGGAGGGGAUGGUG	Tradução
spe-miR390-3p	Sopen01g007670.1	3.0	14.302	1	20	39	58	CGCUAUCCAUCCUGAGUUUU	AAUAAUCAGGAUGGAUGGUG	Clivagem
spe-miR390-3p	Sopen01g007660.1	3.0	17.038	1	20	39	58	CGCUAUCCAUCCUGAGUUUU	AACAAUCAGGAUGGAUGGUG	Clivagem
spe-miR390-3p	Sopen02g008090.1	3.0	19.617	1	20	2644	2662	CGCUAUCCAUCCUGAGUUUU	AAGAUUCAG-AUGGAUAGCG	Tradução
spe-miR390-3p	Sopen05g005110.1	3.0	21.796	1	20	1942	1960	CGCUAUCCAUCCUGAGUUUU	AAGAUUCAG-AUGGAUAGCG	Tradução
spe-miR390-5p	Sopen01g036980.1	3.0	17.528	1	21	418	438	AAGCUCAGGAGGGGAUAGCGCC	GGUGUUUUAUCCUCCUGAGGUU	Clivagem
spe-miR390-5p	Sopen04g032730.1	2.5	18.633	1	20	269	288	AAGCUCAGGAGGGGAUAGCGC	GUGCUAUUCCUCCUGAUCUU	Clivagem
spe-miR390-5p	Sopen09g034740.1	3.0	19.674	1	21	1768	1788	AAGCUCAGGAGGGGAUAGCGCC	GGCGCUAUUCCUCAUGAUCUU	Clivagem
spe-miR390-5p	Sopen09g034800.1	3.0	18.731	1	21	391	411	AAGCUCAGGAGGGGAUAGCGCC	GUCGCUAUCCUCCUCAGCUU	Clivagem
spe-miR390-5p	Sopen04g007680.1	3.0	12.842	1	21	961	981	AAGCUCAGGAGGGGAUAGCGCC	GGAACUAAUCCUCCUGAGUUU	Clivagem
spe-miR390-5p	Sopen03g031640.1	3.0	18.862	1	21	895	915	AAGCUCAGGAGGGGAUAGCGCC	GGAACAAUCCUCCUGAGCUU	Clivagem
spe-miR390a-3p	Sopen08g020320.1	3.0	11.566	1	20	30	49	CGCUAUCCAUCCUGAGUUUU	CAAAUUUGGGAUGGAUAGUG	Clivagem
spe-miR390a-3p	Sopen11g020620.2	3.0	20.041	1	20	10155	10174	CGCUAUCCAUCCUGAGUUUU	AGAAAUUGGGAUGGAUAGUG	Clivagem
spe-miR390a-3p	Sopen11g020620.1	3.0	20.041	1	20	10149	10168	CGCUAUCCAUCCUGAGUUUU	AGAAAUUGGGAUGGAUAGUG	Clivagem
spe-miR390a-3p	Sopen01g033660.1	3.0	16.979	1	20	783	802	CGCUAUCCAUCCUGAGUUUU	AAAGCUUAGGAGGGGAUGGUG	Tradução
spe-miR390a-3p	Sopen01g007670.1	3.0	14.302	1	20	39	58	CGCUAUCCAUCCUGAGUUUU	AAUAAUCAGGAUGGAUGGUG	Clivagem
spe-miR390a-3p	Sopen01g007660.1	3.0	17.038	1	20	39	58	CGCUAUCCAUCCUGAGUUUU	AACAAUCAGGAUGGAUGGUG	Clivagem
spe-miR390a-3p	Sopen02g008090.1	3.0	19.617	1	20	2644	2662	CGCUAUCCAUCCUGAGUUUU	AAGAUUCAG-AUGGAUAGCG	Tradução
spe-miR390a-3p	Sopen05g005110.1	3.0	21.796	1	20	1942	1960	CGCUAUCCAUCCUGAGUUUU	AAGAUUCAG-AUGGAUAGCG	Tradução
spe-miR390a-5p	Sopen01g036980.1	2.5	17.528	1	21	418	438	AAGCUCAGGAGGGGAUAGCACC	GGUGUUUUAUCCUCCUGAGGUU	Clivagem
spe-miR390a-5p	Sopen04g032730.1	2.0	18.633	1	20	269	288	AAGCUCAGGAGGGGAUAGCAC	GUGCUAUUCCUCCUGAUCUU	Clivagem
spe-miR390a-5p	Sopen04g001380.1	3.0	20.378	1	21	751	771	AAGCUCAGGAGGGGAUAGCACC	GGUGUGAUCCCUUCUGAGCUA	Clivagem
spe-miR390a-5p	Sopen07g029780.1	3.0	20.119	1	21	763	783	AAGCUCAGGAGGGGAUAGCACC	GGUGCAAUCCUCCUGAGGUU	Clivagem
spe-miR390a-5p	Sopen07g003410.1	3.0	14.366	1	20	1141	1160	AAGCUCAGGAGGGGAUAGCAC	CUGCUAUCCCUUCAGCUU	Clivagem
spe-miR390a-5p	Sopen01g044390.1	3.0	22.13	1	20	341	360	AAGCUCAGGAGGGGAUAGCAC	UUGCUGUCCUUUCUGGGCUU	Clivagem
spe-miR390a-5p	Sopen01g044390.2	3.0	22.13	1	20	341	360	AAGCUCAGGAGGGGAUAGCAC	UUGCUGUCCUUUCUGGGCUU	Clivagem
spe-miR390a-5p	Sopen04g007680.1	3.0	12.842	1	21	961	981	AAGCUCAGGAGGGGAUAGCACC	GGAACUAAUCCUCCUGAGUUU	Clivagem
spe-miR390a-5p	Sopen06g012780.1	3.0	19.615	1	21	1006	1026	AAGCUCAGGAGGGGAUAGCACC	GGUGCUAUGCUACUUGAGCUU	Tradução
spe-miR390a-5p	Sopen06g012780.2	3.0	18.504	1	21	52	72	AAGCUCAGGAGGGGAUAGCACC	GGUGCUAUGCUACUUGAGCUU	Tradução

spe-miR390a-5p	Sopen01g034040.1	3.0	16.235	1	20	509	528	AAGCUCAGGAGGGAUAGCAC	UUGCUAUUCUCCUGAGCUU	Clivagem
spe-miR390a-5p	Sopen03g031640.1	3.0	18.862	1	21	895	915	AAGCUCAGGAGGGAUAGCACC	GGAACAUCCUCCUGAGCUU	Clivagem
spe-miR393-3p	Sopen03g030800.1	3.0	14.821	1	21	1435	1455	AUCAUGUGAUCUCUUCGGAAU	AUUUCGAACAGAUUACAUGAA	Clivagem
spe-miR393-3p	Sopen04g030710.1	2.5	20.108	1	20	20	39	AUCAUGUGAUCUCUUCGGAA	CUUCCAAGAGAUACAUGAU	Clivagem
spe-miR393-3p	Sopen10g016150.1	3.0	21.793	1	20	2833	2852	AUCAUGUGAUCUCUUCGGAA	AUCCGAACAGCUCACAUGAU	Tradução
spe-miR393-3p	Sopen01g039820.1	3.0	18.766	1	21	694	714	AUCAUGUGAUCUCUUCGGAAU	GUUGCACAGAGAUACAUGAU	Clivagem
spe-miR393-5p	Sopen09g029360.1	2.0	18.205	1	20	1506	1525	UCCAAAGGGAUCGCAUUGAU	GACAAUGCGAUCCUUUGGA	Clivagem
spe-miR393-5p	Sopen02g023990.1	2.0	19.316	1	22	1573	1594	UCCAAAGGGAUCGCAUUGAUCC	GAAUCAUUGCGGUGUCUUUGGA	Tradução
spe-miR393-5p	Sopen05g010300.1	3.0	16.91	1	22	1181	1202	UCCAAAGGGAUCGCAUUGAUCC	GUGUCAAGUGGUUCCUUUGGA	Clivagem
spe-miR393-5p	Sopen01g042720.1	3.0	11.88	1	20	976	995	UCCAAAGGGAUCGCAUUGAU	GUUGAUGCUAUUCCUUUGGA	Clivagem
spe-miR393-5p	Sopen00g005130.1	3.0	10.817	1	20	799	818	UCCAAAGGGAUCGCAUUGAU	GUUGAUGCUAUUCCUUUGGA	Clivagem
spe-miR393-5p	Sopen03g003130.1	3.0	21.191	1	20	697	716	UCCAAAGGGAUCGCAUUGAU	GUAGAUGUGUCCUUUGGA	Clivagem
spe-miR393-5p	Sopen07g031620.1	3.0	18.584	1	22	665	686	UCCAAAGGGAUCGCAUUGAUCC	GUAUCCAUGCGAAUCCUUUGGG	Tradução
spe-miR393-5p	Sopen07g031680.1	3.0	19.821	1	22	665	686	UCCAAAGGGAUCGCAUUGAUCC	GUAUCCAUGCGAAUCCUUUGGG	Tradução
spe-miR393-5p	Sopen03g016720.1	3.0	23.924	1	20	22	41	UCCAAAGGGAUCGCAUUGAU	AUUAUUGGGAUCCUUUGGG	Clivagem
spe-miR393-5p	Sopen06g007430.1	3.0	17.806	1	19	2054	2073	UCCAAAGGGAUCG-CAUUGA	ACAUGACGAUCCUUUGGA	Clivagem
spe-miR393-5p	Sopen06g007430.2	3.0	17.806	1	19	2051	2070	UCCAAAGGGAUCG-CAUUGA	ACAUGACGAUCCUUUGGA	Clivagem
spe-miR393-5p	Sopen05g017790.1	3.0	16.965	1	20	999	1018	UCCAAAGGGAUCGCAUUGAU	AUCAUGAGAACACUUUGGA	Tradução
spe-miR394-1-5p	Sopen12g034970.1	1.0	18.842	1	20	1152	1171	UUGGCAUUCUGUCCACCUCC	GGAGGUUGACAGAAUGCCAA	Clivagem
spe-miR394-1-5p	Sopen09g013340.1	2.0	20.953	1	20	913	932	UUGGCAUUCUGUCCACCUCC	GGAGGUGUACAGAGUGUCAA	Clivagem
spe-miR394-1-5p	Sopen12g004050.2	3.0	16.3	1	20	525	544	UUGGCAUUCUGUCCACCUCC	GGAGCUGGAAAGGAUGUCAA	Tradução
spe-miR394-1-5p	Sopen12g004050.1	3.0	16.3	1	20	975	994	UUGGCAUUCUGUCCACCUCC	GGAGCUGGAAAGGAUGUCAA	Tradução
spe-miR394-1-5p	Sopen05g009940.1	3.0	15.138	1	20	603	622	UUGGCAUUCUGUCCACCUCC	GGAAGUGAAUAGAAUGUCAA	Clivagem
spe-miR394-1-5p	Sopen05g009940.2	3.0	15.138	1	20	603	622	UUGGCAUUCUGUCCACCUCC	GGAAGUGAAUAGAAUGUCAA	Clivagem
spe-miR394-1-5p	Sopen04g023830.1	3.0	19.117	1	20	919	938	UUGGCAUUCUGUCCACCUCC	GAAGGAGGACAGAAUGCUAG	Clivagem
spe-miR394-1-5p	Sopen08g013650.1	3.0	20.059	1	20	709	728	UUGGCAUUCUGUCCACCUCC	GAAGGAGGACAGAAUGCUAG	Clivagem
spe-miR394-2-5p	Sopen12g034970.1	1.0	18.842	1	20	1152	1171	UUGGCAUUCUGUCCACCUCC	GGAGGUUGACAGAAUGCCAA	Clivagem
spe-miR394-2-5p	Sopen09g013340.1	2.0	20.953	1	20	913	932	UUGGCAUUCUGUCCACCUCC	GGAGGUGUACAGAGUGUCAA	Clivagem
spe-miR394-2-5p	Sopen12g004050.2	3.0	16.3	1	20	525	544	UUGGCAUUCUGUCCACCUCC	GGAGCUGGAAAGGAUGUCAA	Tradução
spe-miR394-2-5p	Sopen12g004050.1	3.0	16.3	1	20	975	994	UUGGCAUUCUGUCCACCUCC	GGAGCUGGAAAGGAUGUCAA	Tradução
spe-miR394-2-5p	Sopen05g009940.1	3.0	15.138	1	20	603	622	UUGGCAUUCUGUCCACCUCC	GGAAGUGAAUAGAAUGUCAA	Clivagem
spe-miR394-2-5p	Sopen05g009940.2	3.0	15.138	1	20	603	622	UUGGCAUUCUGUCCACCUCC	GGAAGUGAAUAGAAUGUCAA	Clivagem
spe-miR394-2-5p	Sopen04g023830.1	3.0	19.117	1	20	919	938	UUGGCAUUCUGUCCACCUCC	GAAGGAGGACAGAAUGCUAG	Clivagem
spe-miR394-2-5p	Sopen08g013650.1	3.0	20.059	1	20	709	728	UUGGCAUUCUGUCCACCUCC	GAAGGAGGACAGAAUGCUAG	Clivagem
spe-miR394-3-5p	Sopen12g034970.1	1.0	18.842	1	20	1152	1171	UUGGCAUUCUGUCCACCUCC	GGAGGUUGACAGAAUGCCAA	Clivagem

spe-miR394-3-5p	Sopen09g013340.1	2.0	20.953	1	20	913	932	UUGGCAUUCUGUCCACCUC	GGAGGUGUACAGAGUGUCA	Clivagem
spe-miR394-3-5p	Sopen12g004050.2	3.0	16.3	1	20	525	544	UUGGCAUUCUGUCCACCUC	GGAGCUGGAAAGGAUGUCA	Tradução
spe-miR394-3-5p	Sopen12g004050.1	3.0	16.3	1	20	975	994	UUGGCAUUCUGUCCACCUC	GGAGCUGGAAAGGAUGUCA	Tradução
spe-miR394-3-5p	Sopen05g009940.1	3.0	15.138	1	20	603	622	UUGGCAUUCUGUCCACCUC	GGAAGUGAAUAGAAUGUCA	Clivagem
spe-miR394-3-5p	Sopen05g009940.2	3.0	15.138	1	20	603	622	UUGGCAUUCUGUCCACCUC	GGAAGUGAAUAGAAUGUCA	Clivagem
spe-miR394-3-5p	Sopen04g023830.1	3.0	19.117	1	20	919	938	UUGGCAUUCUGUCCACCUC	GAAGGAGGACAGAAUGCUAG	Clivagem
spe-miR394-3-5p	Sopen08g013650.1	3.0	20.059	1	20	709	728	UUGGCAUUCUGUCCACCUC	GAAGGAGGACAGAAUGCUAG	Clivagem
spe-miR395a-3p	Sopen11g025910.1	1.5	8.547	1	21	988	1008	CUGAAGUGUUUGGGGGAACU	AAGUUCUCCAAACACUUC	Clivagem
spe-miR395a-3p	Sopen06g032390.1	2.0	5.359	1	21	979	999	CUGAAGUGUUUGGGGGAACU	AAGUUCUCCAAACACUUC	Clivagem
spe-miR395a-3p	Sopen04g017250.1	3.0	15.961	1	21	368	388	CUGAAGUGUUUGGGGGAACU	AAGUUCUCCAAAGUGUUUCG	Clivagem
spe-miR395a-3p	Sopen06g005780.1	3.0	22.982	1	21	539	559	CUGAAGUGUUUGGGGGAACU	AAGUUCUCCAAAGUGUUUCG	Clivagem
spe-miR395a-3p	Sopen07g011680.1	3.0	15.19	1	21	479	499	CUGAAGUGUUUGGGGGAACU	AAGUUCUCCAAAGUGUUUCG	Clivagem
spe-miR395a-3p	Sopen06g005350.1	3.0	20.88	1	21	911	931	CUGAAGUGUUUGGGGGAACU	AAGUUCUCCAAAGUGUUUCG	Clivagem
spe-miR395a-3p	Sopen06g005350.2	3.0	21.887	1	21	911	931	CUGAAGUGUUUGGGGGAACU	AAGUUCUCCAAAGUGUUUCG	Clivagem
spe-miR395a-3p	Sopen11g017420.1	3.0	15.133	1	21	1538	1558	CUGAAGUGUUUGGGGGAACU	AAGUUCUCCAAAGUGUUUCG	Clivagem
spe-miR395a-3p	Sopen04g024490.1	2.5	13.763	1	20	128	147	CUGAAGUGUUUGGGGGAACU	UGUUCUCCAAACACUUC	Clivagem
spe-miR395a-3p	Sopen09g031690.1	3.0	22.654	1	21	340	360	CUGAAGUGUUUGGGGGAACU	GAGUUCUCCAAACUCUUC	Clivagem
spe-miR395a-3p	Sopen03g001290.1	3.0	16.752	1	21	340	360	CUGAAGUGUUUGGGGGAACU	GAGUUCUCCAAACUCUUC	Clivagem
spe-miR395a-3p	Sopen11g016060.1	3.0	19.275	1	21	2027	2047	CUGAAGUGUUUGGGGGAACU	ACGUUCCCCAGGCACUUC	Clivagem
spe-miR395a-3p	Sopen05g023820.1	3.0	16.584	1	21	719	739	CUGAAGUGUUUGGGGGAACU	AAGUUUCUCCAAAAACUUUG	Clivagem
spe-miR395a-3p	Sopen08g030880.1	3.0	19.444	1	20	419	438	CUGAAGUGUUUGGGGGAACU	AGUUUCCUCAAACGUUUC	Clivagem
spe-miR395a-3p	Sopen09g015640.1	3.0	18.712	1	21	5065	5085	CUGAAGUGUUUGGGGGAACU	GAGUUCUCAAUAUACUUC	Tradução
spe-miR395a-3p	Sopen10g021110.1	3.0	19.974	1	21	1537	1557	CUGAAGUGUUUGGGGGAACU	GGGUUGCCCCAAACACUUC	Clivagem
spe-miR395a-3p	Sopen08g019820.1	3.0	8.039	1	22	2572	2593	CUGAAGUGUUUGGGGGAACU	GCAGUUUCACCAAAAUUUC	Clivagem
spe-miR395d-3p	Sopen11g025910.1	0.5	8.421	1	21	987	1007	UGAAGUGUUUGGGGGAACUU	AAAGUUCUCCAAACACUUC	Clivagem
spe-miR395d-3p	Sopen06g032390.1	1.0	4.623	1	21	978	998	UGAAGUGUUUGGGGGAACUU	AAAGUUCUCCAAACACUUC	Clivagem
spe-miR395d-3p	Sopen04g017250.1	3.0	16.013	1	21	367	387	UGAAGUGUUUGGGGGAACUU	AAAGUUCUCCAAAGUGUUUC	Clivagem
spe-miR395d-3p	Sopen03g019180.1	3.0	13.259	1	21	625	645	UGAAGUGUUUGGGGGAACUU	AAAGUUCUCCAAAGUGUUUC	Clivagem
spe-miR395d-3p	Sopen07g011680.1	3.0	15.437	1	21	478	498	UGAAGUGUUUGGGGGAACUU	AAAGUUCUCCAAAGUGUUUC	Clivagem
spe-miR395d-3p	Sopen06g005350.1	3.0	21.324	1	21	910	930	UGAAGUGUUUGGGGGAACUU	AAAGUUCUCCAAAGUGUUUC	Clivagem
spe-miR395d-3p	Sopen06g005350.2	3.0	21.589	1	21	910	930	UGAAGUGUUUGGGGGAACUU	AAAGUUCUCCAAAGUGUUUC	Clivagem
spe-miR395d-3p	Sopen11g017420.1	3.0	15.047	1	21	1537	1557	UGAAGUGUUUGGGGGAACUU	AAAGUUCUCCAAAGUGUUUC	Clivagem
spe-miR395d-3p	Sopen04g024490.1	2.5	11.157	1	21	72	92	UGAAGUGUUUGGGGGAACUU	AGAGUUCUCCGGAACACUUC	Tradução
spe-miR395d-3p	Sopen04g024490.1	2.5	12.996	1	20	127	146	UGAAGUGUUUGGGGGAACU	GUGUUCUCCAAACACUUC	Clivagem
spe-miR395d-3p	Sopen03g001290.1	2.5	16.264	1	20	340	359	UGAAGUGUUUGGGGGAACU	GAGUUCUCCAAACUCUUC	Clivagem

spe-miR395d-3p	Sopen09g031690.1	2.5	22.208	1	20	340	359	UGAAGUGUUUGGGGAACUU	GAGUUCCUCCAAACUCUUCA	Clivagem
spe-miR395d-3p	Sopen11g016060.1	2.0	20.374	1	20	2027	2046	UGAAGUGUUUGGGGAACUU	ACGUUCCCCCAGGCACUUCA	Clivagem
spe-miR395d-3p	Sopen08g030880.1	3.0	16.739	1	20	418	437	UGAAGUGUUUGGGGAACUU	CAGUUUCCUCAAAACGUUUCA	Clivagem
spe-miR395d-3p	Sopen06g005780.1	3.0	22.846	1	20	539	558	UGAAGUGUUUGGGGAACUU	AAGUUCUCCAAAGUGUUUCG	Clivagem
spe-miR395d-3p	Sopen07g016920.1	3.0	12.833	1	20	1694	1713	UGAAGUGUUUGGGGAACUU	ACGUUCCCCCAGGCACUUC	Clivagem
spe-miR395d-3p	Sopen08g013490.1	3.0	13.577	1	20	1007	1026	UGAAGUGUUUGGGGAACUU	ACGUUCCCCCAGGCACUUC	Clivagem
spe-miR395d-3p	Sopen12g026590.1	3.0	17.692	1	20	4820	4839	UGAAGUGUUUGGGGAACUU	AUGUUCCCCCAGGCACUUC	Clivagem
spe-miR395d-3p	Sopen01g025420.1	3.0	14.185	1	20	3374	3393	UGAAGUGUUUGGGGAACUU	ACGUUCCCCCAGGCACUUC	Clivagem
spe-miR395d-3p	Sopen01g015750.1	3.0	20.39	1	20	104	123	UGAAGUGUUUGGGGAACUU	ACGUUCCCCCAGGCACUUC	Clivagem
spe-miR395d-3p	Sopen12g012780.1	3.0	17.675	1	20	122	141	UGAAGUGUUUGGGGAACUU	AAGUUGCUCCAAUGUUUCA	Clivagem
spe-miR395d-3p	Sopen05g023350.1	3.0	13.701	1	20	317	336	UGAAGUGUUUGGGGAACUU	AAGUUCUCCUAACACUCCA	Tradução
spe-miR395d-3p	Sopen02g027840.1	3.0	19.408	1	20	193	212	UGAAGUGUUUGGGGAACUU	AACUUGCCUCAAAUACUUCA	Clivagem
spe-miR395d-3p	Sopen01g021570.1	3.0	18.308	1	20	2480	2499	UGAAGUGUUUGGGGAACUU	AUGUACCCCCAGGCACUUCA	Clivagem
spe-miR395g-3p	Sopen11g025910.1	0.5	8.547	1	20	989	1008	UUGAAGUGUUUGGGGAACU	AGUUCUCCAAACACUUCAA	Clivagem
spe-miR395g-3p	Sopen06g032390.1	1.0	5.359	1	20	980	999	UUGAAGUGUUUGGGGAACU	AGUUCUCCAAACACUUCAA	Clivagem
spe-miR395g-3p	Sopen04g024490.1	1.5	13.763	1	21	127	147	UUGAAGUGUUUGGGGAACUC	GUGUUCUCCCAAACACUUCAA	Clivagem
spe-miR395g-3p	Sopen11g016060.1	2.0	19.275	1	20	2028	2047	UUGAAGUGUUUGGGGAACU	CGUUCCCCCAGGCACUUCAA	Clivagem
spe-miR395g-3p	Sopen09g031690.1	3.0	22.654	1	21	340	360	UUGAAGUGUUUGGGGAACUC	GAGUUCCUCCAAACUCUUCAU	Clivagem
spe-miR395g-3p	Sopen03g001290.1	3.0	16.752	1	21	340	360	UUGAAGUGUUUGGGGAACUC	GAGUUCCUCCAAACUCUUCAU	Clivagem
spe-miR395g-3p	Sopen08g028400.1	3.0	14.012	1	21	280	300	UUGAAGUGUUUGGGGAACUC	GAGUUUCUCCAAGCACUACAA	Clivagem
spe-miR395g-3p	Sopen09g006120.1	3.0	19.089	1	21	95	115	UUGAAGUGUUUGGGGAACUC	GAGUUCCUCUAAGAGCUUCAA	Clivagem
spe-miR395g-3p	Sopen08g030880.1	3.0	19.444	1	20	419	438	UUGAAGUGUUUGGGGAACU	AGUUUCCUCAACGUUUCAU	Clivagem
spe-miR395g-3p	Sopen06g016660.1	2.5	13.3	1	20	2067	2086	UUGAAGUGUUUGGGGAACU	AGUUCCCUCUGGCACUUCAA	Tradução
spe-miR395g-3p	Sopen10g030910.1	2.5	13.197	1	20	3193	3212	UUGAAGUGUUUGGGGAACU	AGUUUUCUCAAACACUUCAA	Clivagem
spe-miR395g-3p	Sopen12g020190.1	3.0	10.385	1	21	460	480	UUGAAGUGUUUGGGGAACUC	GAUUUACCUCAAGCACUUCAA	Clivagem
spe-miR395g-3p	Sopen03g034140.1	3.0	17.634	1	21	1154	1174	UUGAAGUGUUUGGGGAACUC	GAAUUGCUUCAACACUUCAA	Clivagem
spe-miR395g-3p	Sopen01g021570.1	3.0	18.695	1	20	2481	2500	UUGAAGUGUUUGGGGAACU	UGUACCCCCAGGCACUUCAA	Clivagem
spe-miR395g-3p	Sopen12g012780.1	3.0	18.052	1	20	123	142	UUGAAGUGUUUGGGGAACU	AGUUGCUCCAAUGUUUCAA	Clivagem
spe-miR395g-3p	Sopen03g027250.1	3.0	13.829	1	20	1498	1517	UUGAAGUGUUUGGGGAACU	GGUUUUCCCAAAAUUUCAA	Clivagem
spe-miR395g-3p	Sopen05g023350.1	3.0	14.669	1	20	318	337	UUGAAGUGUUUGGGGAACU	AGUUCUCCUAACACUCCAA	Tradução
spe-miR395g-3p	Sopen02g027840.1	3.0	19.499	1	20	194	213	UUGAAGUGUUUGGGGAACU	ACUUGCCUCAAAUACUUCAA	Clivagem
spe-miR395g-3p	Sopen02g012790.1	3.0	16.165	1	20	1281	1300	UUGAAGUGUUUGGGGAACU	GGAUCUCCCAAAAACUUCAA	Clivagem
spe-miR395g-3p	Sopen02g027670.1	3.0	12.945	1	20	1695	1714	UUGAAGUGUUUGGGGAACU	AGAUCUCCCGAAAACUUCAA	Clivagem
spe-miR395i-5p	Sopen11g025910.1	1.0	8.547	1	20	989	1008	CUGAAGUGUUUGGAGGAACU	AGUUCUCCAAACACUUCAA	Clivagem
spe-miR395i-5p	Sopen06g032390.1	1.5	5.359	1	20	980	999	CUGAAGUGUUUGGAGGAACU	AGUUCUCCAAACACUUCAA	Clivagem

spe-miR395i-5p	Sopen09g031690.1	2.5	22.654	1	21	340	360	CUGAAGUGUUUGGAGGAACUC	GAGUUCCUCCAAACUCUUCAU	Clivagem
spe-miR395i-5p	Sopen03g001290.1	2.5	16.752	1	21	340	360	CUGAAGUGUUUGGAGGAACUC	GAGUUCCUCCAAACUCUUCAU	Clivagem
spe-miR395i-5p	Sopen04g017250.1	2.5	15.961	1	20	369	388	CUGAAGUGUUUGGAGGAACU	AGUUCCUCCAAGUGUUUCGG	Clivagem
spe-miR395i-5p	Sopen06g005780.1	2.5	22.982	1	20	540	559	CUGAAGUGUUUGGAGGAACU	AGUUCCUCCAAGUGUUUCGG	Clivagem
spe-miR395i-5p	Sopen07g011680.1	2.5	15.19	1	20	480	499	CUGAAGUGUUUGGAGGAACU	AGUUCCUCCAAGUGUUUCGG	Clivagem
spe-miR395i-5p	Sopen06g005350.1	2.5	20.88	1	20	912	931	CUGAAGUGUUUGGAGGAACU	AGUUCCUCCAAGUGUUUCGG	Clivagem
spe-miR395i-5p	Sopen06g005350.2	2.5	21.887	1	20	912	931	CUGAAGUGUUUGGAGGAACU	AGUUCCUCCAAGUGUUUCGG	Clivagem
spe-miR395i-5p	Sopen11g017420.1	2.5	15.133	1	20	1539	1558	CUGAAGUGUUUGGAGGAACU	AGUUCCUCCAAGUGUUUCGG	Clivagem
spe-miR395i-5p	Sopen12g009950.1	3.0	22.622	1	21	1309	1329	CUGAAGUGUUUGGAGGAACUC	GAGUUCUUUGAAGCAUUUCAG	Clivagem
spe-miR395i-5p	Sopen09g015640.1	2.5	18.712	1	21	5065	5085	CUGAAGUGUUUGGAGGAACUC	GAGUUCCUCAAUUACUUCAG	Tradução
spe-miR395i-5p	Sopen10g011650.1	3.0	19.529	1	20	213	232	CUGAAGUGUUUGGAGGAACU	AGUUCCUCCAAGUAUUCAG	Clivagem
spe-miR395i-5p	Sopen06g007750.1	3.0	19.117	1	20	552	571	CUGAAGUGUUUGGAGGAACU	AGUUCCUCCAAGUGUUUUGG	Clivagem
spe-miR395i-5p	Sopen08g022280.1	3.0	21.605	1	20	47	66	CUGAAGUGUUUGGAGGAACU	AGUUCCUCCAAGUCCUUCGG	Clivagem
spe-miR395i-5p	Sopen05g023820.1	2.5	16.584	1	20	720	739	CUGAAGUGUUUGGAGGAACU	AGUUUCUCCAAAAACUUUGG	Clivagem
spe-miR395i-5p	Sopen08g014910.1	3.0	18.537	1	20	1401	1420	CUGAAGUGUUUGGAGGAACU	AGUUCCUCCAAUUCUCCGG	Clivagem
spe-miR395i-5p	Sopen08g007180.1	3.0	15.506	1	20	315	334	CUGAAGUGUUUGGAGGAACU	AGUUACUCCAAGUAUUUCGG	Clivagem
spe-miR395i-5p	Sopen06g012070.2	3.0	20.438	1	20	173	192	CUGAAGUGUUUGGAGGAACU	AGUUCCUCGAAGCUCUUCAG	Clivagem
spe-miR395i-5p	Sopen06g012070.1	3.0	20.438	1	20	173	192	CUGAAGUGUUUGGAGGAACU	AGUUCCUCGAAGCUCUUCAG	Clivagem
spe-miR395i-5p	Sopen07g012870.1	3.0	17.328	1	20	972	991	CUGAAGUGUUUGGAGGAACU	AGUUCCUCCUAAUGUUUCGG	Tradução
spe-miR395i-5p	Sopen01g030670.1	3.0	16.235	1	20	2528	2547	CUGAAGUGUUUGGAGGAACU	AGUUUUUCAAUAUUUCAG	Clivagem
spe-miR395i-5p	Sopen04g022920.1	3.0	20.227	1	20	1018	1037	CUGAAGUGUUUGGAGGAACU	AGUUCUUACAAUUGUUCAG	Clivagem
spe-miR395i-5p	Sopen02g038770.1	3.0	14.568	1	20	381	400	CUGAAGUGUUUGGAGGAACU	AGUUUCUUCUAAGACUUCAG	Tradução
spe-miR395i-5p	Sopen08g019820.1	3.0	8.039	1	20	2574	2593	CUGAAGUGUUUGGAGGAACU	AGUUUCACCAAAAAUUUCAG	Clivagem
spe-miR395i-5p	Sopen12g034380.1	3.0	17.03	1	20	1635	1654	CUGAAGUGUUUGGAGGAACU	AGUUGCUUUAACCACUUCAG	Tradução
spe-miR396-1-3p	Sopen04g011340.1	2.5	16.056	1	20	485	504	GUCCAAGAAAGCUGUGGGAA	CUCCUGCAGCUUUCUUGGAU	Clivagem
spe-miR396-1-3p	Sopen12g002820.1	3.0	13.206	1	21	301	321	GUCCAAGAAAGCUGUGGGAAA	UUCUUCGUAGCUUUCUUGGAC	Clivagem
spe-miR396-1-3p	Sopen02g009730.1	3.0	18.634	1	20	365	384	GUCCAAGAAAGCUGUGGGAA	UUCUUCGUAGCUUUCUUGGAC	Clivagem
spe-miR396-1-3p	Sopen03g004080.1	3.0	13.946	1	21	2002	2022	GUCCAAGAAAGCUGUGGGAAA	UCUCCUACUGUUUUCUUGGAC	Clivagem
spe-miR396-1-3p	Sopen12g022440.2	3.0	12.575	1	21	1018	1038	GUCCAAGAAAGCUGUGGGAAA	UCUCCUACUGUUUUCUUGGAC	Clivagem
spe-miR396-1-3p	Sopen00g014240.1	3.0	13.946	1	21	289	309	GUCCAAGAAAGCUGUGGGAAA	UCUCCUACUGUUUUCUUGGAC	Clivagem
spe-miR396-1-3p	Sopen07g020850.1	3.0	16.302	1	20	482	501	GUCCAAGAAAGCUGUGGGAA	CUCCUUCAGCUUUCUUGGAU	Clivagem
spe-miR396-1-3p	Sopen09g014510.1	3.0	17.704	1	20	1071	1090	GUCCAAGAAAGCUGUGGGAA	UAUCCGUAGCUUUCUUGGAU	Clivagem
spe-miR396-1-3p	Sopen05g008720.1	3.0	14.203	1	20	819	838	GUCCAAGAAAGCUGUGGGAA	UUUCAAUUGCUUUCUUGGAC	Clivagem
spe-miR396-1-3p	Sopen05g017660.1	3.0	23.379	1	20	681	700	GUCCAAGAAAGCUGUGGGAA	UUUCCUCGGCUUACUUGGAC	Clivagem
spe-miR396-1-5p	Sopen01g049740.1	2.0	17.967	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AAGUUCAAAAGAGUUGUGGAA	Clivagem

spe-miR396-1-5p	Sopen01g047890.1	2.0	17.967	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AAGUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen05g007960.1	2.0	17.967	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AAGUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen12g009510.1	2.0	18.488	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AAGUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen07g018530.1	2.0	17.967	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AAGUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen05g025680.1	2.0	18.488	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AAGUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen02g006210.1	2.0	17.967	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AAGUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen03g012400.1	2.5	10.865	1	21	1129	1149	UUCCACAGCUUUCUUGAACUU	AAGUUUAAGAAAGAUGUGGAU	Clivagem
spe-miR396-1-5p	Sopen02g013760.2	2.5	21.665	1	21	1150	1170	UUCCACAGCUUUCUUGAACUU	AGGAUCAGGAAAGCUGUGGAG	Clivagem
spe-miR396-1-5p	Sopen02g013760.1	2.5	21.665	1	21	1150	1170	UUCCACAGCUUUCUUGAACUU	AGGAUCAGGAAAGCUGUGGAG	Clivagem
spe-miR396-1-5p	Sopen12g030570.1	2.5	14.162	1	21	461	481	UUCCACAGCUUUCUUGAACUU	AGGAUCAAGGAAGCUGUGGGA	Clivagem
spe-miR396-1-5p	Sopen09g016510.1	2.5	16.09	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AAGUUCAAUAGAGUUGUGGGA	Clivagem
spe-miR396-1-5p	Sopen12g011470.1	2.5	21.471	1	21	737	757	UUCCACAGCUUUCUUGAACUU	GAGUUCAGGGAGGAUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen04g024640.1	3.0	15.033	1	20	409	428	UUCCACAGCUUUCUUGAACU	AGUUUAAGAGAGUGGUGGAA	Clivagem
spe-miR396-1-5p	Sopen04g020390.1	3.0	21.41	1	21	7782	7802	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen12g009140.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen07g009610.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen01g054370.2	3.0	21.41	1	21	357	377	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen05g022710.1	3.0	21.847	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen03g010390.2	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen10g027840.2	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen06g013210.1	3.0	21.62	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen04g018280.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen04g011990.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen11g022640.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen01g012380.2	3.0	21.997	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen06g009700.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen11g019300.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen02g025170.2	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen08g008030.1	3.0	21.665	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen03g022610.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen11g023000.1	3.0	21.01	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen03g024520.1	3.0	19.98	1	21	222	242	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen04g009010.1	3.0	21.924	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen00g002370.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen07g019420.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem

spe-miR396-1-5p	Sopen01g010970.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen04g019520.1	3.0	21.681	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen07g008450.1	3.0	21.62	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen12g009410.1	3.0	20.949	1	21	315	335	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen07g017080.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen02g006650.1	3.0	13.265	1	21	91	111	UUCCACAGCUUUCUUGAACUU	GAGUUUAAAGAGGUGUGAA	Clivagem
spe-miR396-1-5p	Sopen05g010120.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen07g012190.1	3.0	18.626	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AAAUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen02g012110.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen10g018450.1	3.0	21.161	1	21	1671	1691	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen04g020490.1	3.0	20.077	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen05g022700.1	3.0	17.325	1	21	630	650	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen08g009670.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen11g014430.1	3.0	21.246	1	21	210	230	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen01g054370.1	3.0	21.41	1	21	357	377	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen07g011690.1	3.0	20.329	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen04g009250.2	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen01g044760.1	2.5	13.188	1	21	475	495	UUCCACAGCUUUCUUGAACUU	GAGGUGAAGAAAGCUGUGGAG	Clivagem
spe-miR396-1-5p	Sopen02g009940.1	3.0	21.639	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen11g022130.1	3.0	22.005	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen07g016330.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen03g025060.1	3.0	21.687	1	21	396	416	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen07g014190.1	3.0	21.574	1	21	396	416	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen01g054200.1	3.0	9.03	1	21	907	927	UUCCACAGCUUUCUUGAACUU	AAGUACAAGAAGGAUGUGGAG	Clivagem
spe-miR396-1-5p	Sopen05g017200.1	3.0	17.312	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen11g011650.1	3.0	18.864	1	21	256	276	UUCCACAGCUUUCUUGAACUU	AAGUUCAAAAGAGAUGUGGAG	Clivagem
spe-miR396-1-5p	Sopen09g010860.1	3.0	21.959	1	21	252	272	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen07g006670.1	3.0	16.682	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen11g023870.1	3.0	20.554	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen06g002690.1	3.0	11.021	1	21	313	333	UUCCACAGCUUUCUUGAACUU	AAGGUUAAAGGAUGCUGUGGAA	Tradução
spe-miR396-1-5p	Sopen10g005240.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen02g013780.1	2.5	14.523	1	21	862	882	UUCCACAGCUUUCUUGAACUU	GAGAUCAAGAAAUCUGUGGGA	Tradução
spe-miR396-1-5p	Sopen11g020960.1	3.0	21.579	1	21	141	161	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen12g005930.1	3.0	20.647	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen02g013780.2	2.5	14.523	1	21	814	834	UUCCACAGCUUUCUUGAACUU	GAGAUCAAGAAAUCUGUGGGA	Tradução

spe-miR396-1-5p	Sopen04g009900.1	3.0	21.621	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen04g009250.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen07g005670.1	3.0	21.386	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen08g008990.1	3.0	21.439	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen12g008950.1	3.0	21.251	1	21	213	233	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen08g011700.1	3.0	21.41	1	21	204	224	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen12g017770.1	3.0	20.274	1	21	189	209	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen12g019950.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen06g013010.1	3.0	21.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen02g016540.1	3.0	9.454	1	21	728	748	UUCCACAGCUUUCUUGAACUU	GAGUUUGUGAAGGCUGUGGAG	Clivagem
spe-miR396-1-5p	Sopen09g024150.1	3.0	19.466	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen10g005770.1	3.0	21.997	1	21	243	263	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen05g027660.1	3.0	21.508	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen01g010210.1	3.0	15.216	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen10g019590.1	3.0	22.923	1	21	435	455	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen07g027420.1	3.0	17.465	1	21	101	121	UUCCACAGCUUUCUUGAACUU	AGGAUCAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen12g008810.1	3.0	21.694	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen05g022030.1	3.0	19.795	1	21	198	218	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen01g023700.1	3.0	21.567	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen01g013080.1	3.0	16.41	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen06g005310.1	3.0	21.532	1	21	357	377	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen12g024510.1	3.0	21.178	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen11g025050.1	3.0	21.66	1	21	306	326	UUCCACAGCUUUCUUGAACUU	AACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen01g037310.1	2.0	22.298	1	21	468	489	UUCCACA-GCUUUCUUGAACUU	ACGUUCAAGAAAGCCUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen06g002240.1	3.0	17.681	1	20	2190	2209	UUCCACAGCUUUCUUGAACU	AGAUCGAGAAAGCUGUGAAA	Clivagem
spe-miR396-1-5p	Sopen02g036640.1	2.0	14.74	1	19	755	774	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGCAUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen02g036640.2	2.0	14.74	1	19	746	765	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGCAUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen04g031110.1	2.0	20.472	1	19	722	741	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen03g022150.1	2.0	23.339	1	19	464	483	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGCAUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen08g031420.1	2.0	10.415	1	19	467	486	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen08g024600.1	2.0	17.686	1	19	377	396	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen08g001470.1	2.0	14.859	1	19	386	405	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen07g021120.1	2.0	12.103	1	19	344	363	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen12g029640.1	2.5	18.545	1	20	419	438	UUCCACAGCUUUCUUGAACU	AAUUCGAAAAAGCUGUGGAA	Clivagem
spe-miR396-1-5p	Sopen01g016080.1	3.0	14.286	1	21	3482	3502	UUCCACAGCUUUCUUGAACUU	GAGGUCAUGGAGGCUGUGGAA	Clivagem

spe-miR396-1-5p	Sopen11g008280.1	3.0	20.23	1	21	544	564	UUCCACAGCUUUCUUGAACUU	GAGUUUUCGAAAGCUGUGGAG	Clivagem
spe-miR396-1-5p	Sopen08g028160.1	2.5	15.775	1	19	440	459	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGUGUGUGGAA	Clivagem
spe-miR396-2-3p	Sopen06g025980.1	2.5	12.271	1	20	1430	1449	GUUCAAGAAAGCUGUGGAAA	UUUUUACAGUUUUCUUGAAG	Clivagem
spe-miR396-2-3p	Sopen12g002820.1	3.0	13.206	1	21	301	321	GUUCAAGAAAGCUGUGGAAAA	UUCUUCGUAGCUUUCUUGGAC	Clivagem
spe-miR396-2-3p	Sopen09g014510.1	3.0	17.704	1	20	1071	1090	GUUCAAGAAAGCUGUGGAAA	UAUCCGUAGCUUUCUUGGAU	Clivagem
spe-miR396-2-3p	Sopen05g008720.1	3.0	14.203	1	20	819	838	GUUCAAGAAAGCUGUGGAAA	UUUCAAUUGCUUUCUUGGAC	Clivagem
spe-miR396-2-3p	Sopen05g017660.1	3.0	23.379	1	20	681	700	GUUCAAGAAAGCUGUGGAAA	UUUCCUCGGCUUACUUGGAC	Clivagem
spe-miR396-2-3p	Sopen06g015180.1	3.0	13.951	1	19	912	931	GUUCAAGAA-AGCUGUGGAA	UUCCACGGCUAUUCUUGAAU	Tradução
spe-miR396-2-5p	Sopen10g015040.1	2.5	18.028	1	21	240	260	UCCCACAGCUUUCUUGGACUU	AAGACUAAGAGAGUUGUGGGA	Clivagem
spe-miR396-2-5p	Sopen12g030570.1	2.5	14.162	1	21	461	481	UCCCACAGCUUUCUUGGACUU	AGGAUCAAGGAAGCUGUGGGA	Clivagem
spe-miR396-2-5p	Sopen09g016510.1	2.5	16.09	1	21	306	326	UCCCACAGCUUUCUUGGACUU	AAGUUCAAUAGAGUUGUGGGA	Clivagem
spe-miR396-2-5p	Sopen12g025180.1	3.0	18.984	1	21	219	239	UCCCACAGCUUUCUUGGACUU	AAGGCUAAGAAAGCUUUGGGA	Clivagem
spe-miR396-2-5p	Sopen02g013780.1	2.5	14.523	1	21	862	882	UCCCACAGCUUUCUUGGACUU	GAGAUCAAGAAAUCUGUGGGA	Tradução
spe-miR396-2-5p	Sopen02g013780.2	2.5	14.523	1	21	814	834	UCCCACAGCUUUCUUGGACUU	GAGAUCAAGAAAUCUGUGGGA	Tradução
spe-miR396-2-5p	Sopen01g048080.1	3.0	17.808	1	21	820	840	UCCCACAGCUUUCUUGGACUU	AAUCCAAGGAAGAUGUGGGG	Clivagem
spe-miR396-2-5p	Sopen03g024710.1	3.0	15.612	1	21	444	464	UCCCACAGCUUUCUUGGACUU	AAGACUGAAAAAGCUGUGGGA	Clivagem
spe-miR396-2-5p	Sopen02g002770.1	3.0	22.009	1	20	4066	4085	UCCCACAGCUUUCUUGGACU	AAUCUAAGAAAUUGUGGGA	Tradução
spe-miR396-2-5p	Sopen12g007160.1	3.0	17.026	1	20	2251	2270	UCCCACAGCUUUCUUGGACU	AAUACAUAUAAAGCUGUGGGA	Clivagem
spe-miR396a-3p	Sopen06g022530.1	2.5	18.538	1	20	198	217	GUUCAAUAAAGCUGUGGGAA	UUCUGCAGCUUUGUUGAAA	Clivagem
spe-miR396a-3p	Sopen07g005380.1	2.0	20.271	1	20	1260	1279	GUUCAAUAAAGCUGUGGGAA	UUCUCACAUAUUUAUUGAAC	Clivagem
spe-miR396a-3p	Sopen01g010380.1	2.0	19.17	1	20	696	715	GUUCAAUAAAGCUGUGGGAA	UUCUCACAUAUUUAUUGAAC	Clivagem
spe-miR396a-3p	Sopen06g010630.1	3.0	24.309	1	20	1125	1144	GUUCAAUAAAGCUGUGGGAA	UUCCCAAGGAUUAUUGAGC	Tradução
spe-miR396a-5p	Sopen01g049740.1	2.0	17.967	1	20	307	326	UUCCACAGCUUUCUUGAACU	AGUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen01g047890.1	2.0	17.967	1	20	307	326	UUCCACAGCUUUCUUGAACU	AGUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen05g007960.1	2.0	17.967	1	20	307	326	UUCCACAGCUUUCUUGAACU	AGUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen12g009510.1	2.0	18.488	1	20	307	326	UUCCACAGCUUUCUUGAACU	AGUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen07g018530.1	2.0	17.967	1	20	307	326	UUCCACAGCUUUCUUGAACU	AGUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen05g025680.1	2.0	18.488	1	20	307	326	UUCCACAGCUUUCUUGAACU	AGUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen02g006210.1	2.0	17.967	1	20	307	326	UUCCACAGCUUUCUUGAACU	AGUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen04g024640.1	3.0	15.033	1	21	408	428	UUCCACAGCUUUCUUGAACUG	UAGUUUAAGAGAGUGGUGGAA	Clivagem
spe-miR396a-5p	Sopen12g029640.1	2.5	18.545	1	21	418	438	UUCCACAGCUUUCUUGAACUG	CAAUUCGAAAAAGCUGUGGAA	Clivagem
spe-miR396a-5p	Sopen03g012400.1	2.5	10.865	1	20	1130	1149	UUCCACAGCUUUCUUGAACU	AGUUUAAGAAAGAUUGGAU	Clivagem
spe-miR396a-5p	Sopen02g013760.2	2.5	21.665	1	20	1151	1170	UUCCACAGCUUUCUUGAACU	GGAUCAGGAAAGCUGUGGAG	Clivagem
spe-miR396a-5p	Sopen02g013760.1	2.5	21.665	1	20	1151	1170	UUCCACAGCUUUCUUGAACU	GGAUCAGGAAAGCUGUGGAG	Clivagem
spe-miR396a-5p	Sopen12g030570.1	2.5	14.162	1	20	462	481	UUCCACAGCUUUCUUGAACU	GGAUCAAGGAAGCUGUGGGA	Clivagem

spe-miR396a-5p	Sopen12g011470.1	2.5	21.471	1	20	738	757	UUCCACAGCUUUCUUGAACU	AGUUCAGGGAGGAUGUGGAA	Clivagem
spe-miR396a-5p	Sopen09g016510.1	2.5	16.09	1	20	307	326	UUCCACAGCUUUCUUGAACU	AGUUCAAUAGAGUUGUGGGA	Clivagem
spe-miR396a-5p	Sopen06g002240.1	3.0	17.681	1	21	2189	2209	UUCCACAGCUUUCUUGAACUG	UAGAUCGAGAAAGCUGUGAAA	Clivagem
spe-miR396a-5p	Sopen03g022150.1	2.0	23.339	1	21	462	483	UUCCACA-GCUUUCUUGAACUG	CCGUUCAAGAAAGCAUGUGGAA	Clivagem
spe-miR396a-5p	Sopen08g031420.1	2.0	10.415	1	21	465	486	UUCCACA-GCUUUCUUGAACUG	CCGUUCAAGAAAGCCUGUGGAA	Clivagem
spe-miR396a-5p	Sopen08g024600.1	2.0	17.686	1	21	375	396	UUCCACA-GCUUUCUUGAACUG	CCGUUCAAGAAAGCCUGUGGAA	Clivagem
spe-miR396a-5p	Sopen08g001470.1	2.0	14.859	1	21	384	405	UUCCACA-GCUUUCUUGAACUG	CCGUUCAAGAAAGCCUGUGGAA	Clivagem
spe-miR396a-5p	Sopen07g021120.1	2.0	12.103	1	21	342	363	UUCCACA-GCUUUCUUGAACUG	CCGUUCAAGAAAGCCUGUGGAA	Clivagem
spe-miR396a-5p	Sopen02g006650.1	3.0	13.265	1	20	92	111	UUCCACAGCUUUCUUGAACU	AGUUAAGAAAGGUGUUGAA	Clivagem
spe-miR396a-5p	Sopen01g044760.1	2.5	13.188	1	20	476	495	UUCCACAGCUUUCUUGAACU	AGGUGAAGAAAGCUGUGGAG	Clivagem
spe-miR396a-5p	Sopen02g036640.1	2.0	14.74	1	19	755	774	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGCAUGUGGAA	Clivagem
spe-miR396a-5p	Sopen02g036640.2	2.0	14.74	1	19	746	765	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGCAUGUGGAA	Clivagem
spe-miR396a-5p	Sopen04g031110.1	2.0	20.472	1	19	722	741	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
spe-miR396a-5p	Sopen02g013780.1	2.5	14.523	1	20	863	882	UUCCACAGCUUUCUUGAACU	AGAUCAAGAAAUUCUGUGGGA	Tradução
spe-miR396a-5p	Sopen02g013780.2	2.5	14.523	1	20	815	834	UUCCACAGCUUUCUUGAACU	AGAUCAAGAAAUUCUGUGGGA	Tradução
spe-miR396a-5p	Sopen01g037310.1	2.0	22.298	1	19	470	489	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGCCUGUGGAA	Clivagem
spe-miR396a-5p	Sopen02g016540.1	3.0	9.454	1	20	729	748	UUCCACAGCUUUCUUGAACU	AGUUGUGAAGGCUGUGGAG	Clivagem
spe-miR396a-5p	Sopen04g020390.1	3.0	21.41	1	20	7783	7802	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen12g009140.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen07g009610.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen01g016080.1	3.0	14.286	1	20	3483	3502	UUCCACAGCUUUCUUGAACU	AGGUCAUGGAGGCUGUGGAA	Clivagem
spe-miR396a-5p	Sopen01g054370.2	3.0	21.41	1	20	358	377	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen11g022640.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen02g025170.2	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen05g022710.1	3.0	21.847	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen03g022610.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen06g013210.1	3.0	21.62	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen04g018280.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen11g023000.1	3.0	21.01	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen10g027840.2	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen04g011990.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen06g009700.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen11g019300.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen08g008030.1	3.0	21.665	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen03g010390.2	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem

spe-miR396a-5p	Sopen01g012380.2	3.0	21.997	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen03g024520.1	3.0	19.98	1	20	223	242	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen04g009010.1	3.0	21.924	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen00g002370.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen01g010970.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen07g019420.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen04g019520.1	3.0	21.681	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen07g008450.1	3.0	21.62	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen12g009410.1	3.0	20.949	1	20	316	335	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen07g017080.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen05g010120.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen07g012190.1	3.0	18.626	1	20	307	326	UUCCACAGCUUUCUUGAACU	AAUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen02g012110.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen10g018450.1	3.0	21.161	1	20	1672	1691	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen04g020490.1	3.0	20.077	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen05g022700.1	3.0	17.325	1	20	631	650	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen08g009670.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen11g014430.1	3.0	21.246	1	20	211	230	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen01g054370.1	3.0	21.41	1	20	358	377	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen07g011690.1	3.0	20.329	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen04g009250.2	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen02g009940.1	3.0	21.639	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen11g022130.1	3.0	22.005	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen07g016330.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen03g025060.1	3.0	21.687	1	20	397	416	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen07g014190.1	3.0	21.574	1	20	397	416	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen01g054200.1	3.0	9.03	1	20	908	927	UUCCACAGCUUUCUUGAACU	AGUACAAGAAGGAUGUGGAG	Clivagem
spe-miR396a-5p	Sopen05g017200.1	3.0	17.312	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen11g011650.1	3.0	18.864	1	20	257	276	UUCCACAGCUUUCUUGAACU	AGUUCAAAGAGAUUGUGGAG	Clivagem
spe-miR396a-5p	Sopen09g010860.1	3.0	21.959	1	20	253	272	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen07g006670.1	3.0	16.682	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen11g023870.1	3.0	20.554	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen06g002690.1	3.0	11.021	1	20	314	333	UUCCACAGCUUUCUUGAACU	AGGUUAAGGAUGCUGUGGAA	Tradução
spe-miR396a-5p	Sopen10g005240.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen11g020960.1	3.0	21.579	1	20	142	161	UUCCACAGCUUUCUUGAACU	ACUUCAAAGAGUUGUGGAA	Clivagem

spe-miR396a-5p	Sopen12g005930.1	3.0	20.647	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen04g009250.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen04g009900.1	3.0	21.621	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen07g005670.1	3.0	21.386	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen08g008990.1	3.0	21.439	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen12g008950.1	3.0	21.251	1	20	214	233	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen08g011700.1	3.0	21.41	1	20	205	224	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen12g017770.1	3.0	20.274	1	20	190	209	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen12g019950.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen06g013010.1	3.0	21.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen09g024150.1	3.0	19.466	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen10g005770.1	3.0	21.997	1	20	244	263	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen11g008280.1	3.0	20.23	1	20	545	564	UUCCACAGCUUUCUUGAACU	AGUUUUCGAAAGCUGUGGAG	Clivagem
spe-miR396a-5p	Sopen05g027660.1	3.0	21.508	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen01g010210.1	3.0	15.216	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen10g019590.1	3.0	22.923	1	20	436	455	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen07g027420.1	3.0	17.465	1	20	102	121	UUCCACAGCUUUCUUGAACU	GGAUCAAAAAAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen12g008810.1	3.0	21.694	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen05g022030.1	3.0	19.795	1	20	199	218	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen08g028160.1	2.5	15.775	1	19	440	459	UUCCACA-GCUUUCUUGAAC	GUUCAAGAAAGUGUGUGGAA	Clivagem
spe-miR396a-5p	Sopen01g023700.1	3.0	21.567	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen01g013080.1	3.0	16.41	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen06g005310.1	3.0	21.532	1	20	358	377	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen12g024510.1	3.0	21.178	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR396a-5p	Sopen11g025050.1	3.0	21.66	1	20	307	326	UUCCACAGCUUUCUUGAACU	ACUUCAAAAGAGUUGUGGAA	Clivagem
spe-miR397-3p	Sopen11g024230.1	2.0	14.47	1	20	191	210	CAUCAACGCUACACUCGAUC	GAUCGAGGGAAGCGUUGAUG	Tradução
spe-miR397-3p	Sopen11g016530.1	3.0	20.755	1	21	1927	1947	CAUCAACGCUACACUCGAUCA	UGCUCUGGUGUGGCGUUGAUG	Clivagem
spe-miR397-3p	Sopen11g016530.2	3.0	20.755	1	21	1927	1947	CAUCAACGCUACACUCGAUCA	UGCUCUGGUGUGGCGUUGAUG	Clivagem
spe-miR397-3p	Sopen11g016530.3	3.0	20.755	1	21	1927	1947	CAUCAACGCUACACUCGAUCA	UGCUCUGGUGUGGCGUUGAUG	Clivagem
spe-miR397-3p	Sopen09g030810.1	3.0	14.754	1	20	46	65	CAUCAACGCUACACUCGAUC	GAUCGGGUGUAUCGUUUUAUG	Tradução
spe-miR397-3p	Sopen02g006820.1	3.0	17.804	1	20	1749	1768	CAUCAACGCUACACUCGAUC	GAUUGAGUGUACCAUUGAUG	Tradução
spe-miR397-3p	Sopen01g012670.1	3.0	14.936	1	20	1759	1778	CAUCAACGCUACACUCGAUC	GAUCGGGUGUAUCGUUUUAUG	Tradução
spe-miR397-3p	Sopen10g012590.1	3.0	14.936	1	20	1750	1769	CAUCAACGCUACACUCGAUC	GAUCGGGUGUAUCGUUUUAUG	Tradução
spe-miR397-3p	Sopen06g014250.1	3.0	19.552	1	20	1175	1194	CAUCAACGCUACACUCGAUC	GAUUGAGUGGUGUGUUGAUG	Tradução
spe-miR397-5p	Sopen07g024810.1	0.5	11.041	1	20	662	681	AUUGAGUGCAGCGUUGAUGA	UCAUCAACGCUGCGCUCAAU	Clivagem

spe-miR397-5p	Sopen06g033620.1	1.0	16.686	1	21	682	702	AUUGAGUGCAGCGUUGAUGAC	GUGAUC AACG CUGCACUCAAU	Clivagem
spe-miR397-5p	Sopen06g033640.1	1.0	16.778	1	21	664	684	AUUGAGUGCAGCGUUGAUGAC	GUGAUC AACG CUGCACUCAAU	Clivagem
spe-miR397-5p	Sopen06g033630.1	1.0	16.686	1	21	664	684	AUUGAGUGCAGCGUUGAUGAC	GUGAUC AACG CUGCACUCAAU	Clivagem
spe-miR397-5p	Sopen10g028490.1	1.0	13.853	1	21	661	681	AUUGAGUGCAGCGUUGAUGAC	GUAUAUC AACG CUGCACUCAAU	Clivagem
spe-miR397-5p	Sopen06g015180.1	2.0	15.214	1	21	685	705	AUUGAGUGCAGCGUUGAUGAC	GUUAUCA AUGCUGCACUCAAC	Clivagem
spe-miR397-5p	Sopen06g032740.1	1.0	17.664	1	20	692	711	AUUGAGUGCAGCGUUGAUGA	UAAUCAACG CUGCACUCAAU	Clivagem
spe-miR397-5p	Sopen09g007120.1	2.0	12.718	1	21	664	684	AUUGAGUGCAGCGUUGAUGAC	GUAUAUC AACG CUGCACUCAAC	Clivagem
spe-miR397-5p	Sopen02g013680.1	1.5	18.097	1	20	533	552	AUUGAGUGCAGCGUUGAUGA	UUGUCA AUGCUGCACUCAAU	Clivagem
spe-miR397-5p	Sopen05g030930.1	3.0	14.861	1	21	673	693	AUUGAGUGCAGCGUUGAUGAC	GUUAUCAACG CUGCACUGAAC	Clivagem
spe-miR397-5p	Sopen09g005780.1	1.5	8.481	1	20	668	687	AUUGAGUGCAGCGUUGAUGA	UGAUC AACG CUGCACUUAU	Clivagem
spe-miR397-5p	Sopen09g005720.1	1.5	8.481	1	20	668	687	AUUGAGUGCAGCGUUGAUGA	UGAUC AACG CUGCACUUAU	Clivagem
spe-miR397-5p	Sopen05g026580.1	1.5	10.839	1	20	455	474	AUUGAGUGCAGCGUUGAUGA	UAAUCA AUGCUGCACUCAAU	Clivagem
spe-miR397-5p	Sopen02g029810.1	2.5	17.239	1	20	674	693	AUUGAGUGCAGCGUUGAUGA	UUAUCA AUGCUGCUCUCAAU	Clivagem
spe-miR397-5p	Sopen06g033140.1	2.5	14.999	1	20	680	699	AUUGAGUGCAGCGUUGAUGA	UCAUCA AUGCUGCAUUAUU	Clivagem
spe-miR397-5p	Sopen01g051120.1	3.0	15.426	1	20	1872	1891	AUUGAGUGCAGCGUUGAUGA	UCAUCAGCGUUGCAUUCAGC	Clivagem
spe-miR397-5p	Sopen02g023540.1	2.5	17.885	1	20	1172	1191	AUUGAGUGCAGCGUUGAUGA	UCAUCA AUGCUGGACUCAAG	Clivagem
spe-miR397-5p	Sopen09g005710.1	2.5	14.13	1	20	782	801	AUUGAGUGCAGCGUUGAUGA	UGAUC AACG CUGCACUUAUU	Clivagem
spe-miR397-5p	Sopen06g016050.1	3.0	13.814	1	21	664	684	AUUGAGUGCAGCGUUGAUGAC	GUCAUC AACCUGGACUCAAC	Clivagem
spe-miR397-5p	Sopen02g029800.1	3.0	17.522	1	20	674	693	AUUGAGUGCAGCGUUGAUGA	UUGUCA AUGCUGCUCUCAAU	Clivagem
spe-miR397-5p	Sopen03g025230.1	2.0	16.337	1	20	151	170	AUUGAGUGCAGCGUUGAUGA	UCAUC AACG GUAACUCAAU	Tradução
spe-miR397-5p	Sopen07g032060.2	3.0	11.255	1	20	1103	1122	AUUGAGUGCAGCGUUGAUGA	ACCUCAACG UUGCACUUAUU	Clivagem
spe-miR397-5p	Sopen07g032060.1	3.0	11.255	1	20	1103	1122	AUUGAGUGCAGCGUUGAUGA	ACCUCAACG UUGCACUUAUU	Clivagem
spe-miR397-5p	Sopen09g006750.1	3.0	10.096	1	20	386	405	AUUGAGUGCAGCGUUGAUGA	UGAUCA AUGCUGCACUUAAC	Clivagem
spe-miR397-5p	Sopen10g028940.2	3.0	18.638	1	20	548	567	AUUGAGUGCAGCGUUGAUGA	UCAUCAAGCUUGCAUUCAAU	Clivagem
spe-miR397-5p	Sopen10g028940.3	3.0	18.638	1	20	386	405	AUUGAGUGCAGCGUUGAUGA	UCAUCAAGCUUGCAUUCAAU	Clivagem
spe-miR398-3p	Sopen03g013660.1	3.0	12.782	1	21	753	773	UGUGUUCUCAGGUCGCCCCUG	UAGGGGAGAUUGGAGAACACA	Tradução
spe-miR398-5p	Sopen06g001460.1	2.5	18.83	1	20	572	591	AGGGCAACUUGAGAUCAU	AUGUGGUCUUGAGUUGUCUU	Clivagem
spe-miR398-5p	Sopen01g046490.1	3.0	19.646	1	20	146	165	AGGGCAACUUGAGAUCAU	AUGUGGUCUCAAUUUCCCU	Clivagem
spe-miR398-5p	Sopen03g029910.1	3.0	17.103	1	21	113	134	AGGGCAACUUGAG-AUCACAUG	UAUGUGAUGCUGAAGUUGCCCU	Tradução
spe-miR398-5p	Sopen06g011330.1	2.5	18.273	1	19	115	134	AGGGCAACUUGAG-AUCACA	UGUGAUGCUGAAGUUGCUCU	Clivagem
spe-miR398-5p	Sopen03g033920.1	3.0	17.403	1	19	115	134	AGGGCAACUUGAG-AUCACA	UGUGAUGCUGAAGUUGCCCU	Tradução
spe-miR398a-5p	Sopen03g009140.1	3.0	12.907	1	21	2037	2057	GGGUUGAUUUUGAGAACAUUG	CAUAAGUUCUCAAAAUAACCC	Clivagem
spe-miR398a-5p	Sopen06g033570.1	3.0	13.36	1	20	720	739	GGGUUGAUUUUGAGAACAUU	GAAUGUUCUUAUUACGCC	Clivagem
spe-miR398a-5p	Sopen06g021280.1	3.0	13.824	1	21	781	802	GGGUUGA-UUUGAGAACAUUG	CAUAUGUUCUCAACUCAACUU	Clivagem
spe-miR398a-5p	Sopen11g018470.1	3.0	18.053	1	20	911	930	GGGUUGAUUUUGAGAACAUU	AGAUUUCUCAAAUCAACUU	Clivagem

spe-miR398a-5p	Sopen08g020630.1	3.0	17.913	1	20	1321	1340	GGGUUGAUUUGAGAACAUAU	AGAGGUUCUCAAGUCAACUC	Clivagem
spe-miR398a-5p	Sopen12g008270.1	3.0	15.124	1	20	308	327	GGGUUGAUUUGAGAACAUAU	AUAUGCACUCAAAUCAGCUC	Clivagem
spe-miR398b-1-3p	Sopen01g013350.1	3.0	12.314	1	21	388	408	UUGUGUUCUCAGGUCACCCCU	AGUGGUGAUUUGAGGAUACAA	Clivagem
spe-miR398b-1-3p	Sopen02g037330.1	3.0	11.385	1	21	994	1014	UUGUGUUCUCAGGUCACCCCU	AUGGGUGACAUGAUAAACAA	Clivagem
spe-miR398b-1-5p	Sopen09g033390.1	2.0	14.555	1	22	459	480	GAGUGUGCCUAAGAACACAGGU	AGCUGUGUUCUUUGGUGCACUC	Tradução
spe-miR398b-1-5p	Sopen04g019250.2	3.0	20.639	1	19	552	571	GAGUGUG-CCUAAGAACACA	UGUGUUCUUAGGAUACACUU	Clivagem
spe-miR398b-1-5p	Sopen04g019250.1	3.0	20.639	1	19	552	571	GAGUGUG-CCUAAGAACACA	UGUGUUCUUAGGAUACACUU	Clivagem
spe-miR398b-2-3p	Sopen01g013350.1	3.0	12.314	1	21	388	408	UUGUGUUCUCAGGUCACCCCU	AGUGGUGAUUUGAGGAUACAA	Clivagem
spe-miR398b-2-3p	Sopen02g037330.1	3.0	11.385	1	21	994	1014	UUGUGUUCUCAGGUCACCCCU	AUGGGUGACAUGAUAAACAA	Clivagem
spe-miR398b-2-5p	Sopen01g054390.1	3.0	15.549	1	20	32	51	GAGUGUGCCUGGAAACACAG	GUGUGUUUCUGGUCACACUC	Clivagem
spe-miR399-1-3p	Sopen07g026190.1	2.5	22.948	1	20	482	501	UGCCAAAGGAGAGUUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-1-3p	Sopen07g026190.2	2.5	20.917	1	20	392	411	UGCCAAAGGAGAGUUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-1-3p	Sopen02g032980.1	3.0	14.631	1	21	3030	3050	UGCCAAAGGAGAGUUGCCUG	UAGGAUAAUGCUCUUUGGCA	Clivagem
spe-miR399-1-3p	Sopen03g016120.1	3.0	23.231	1	21	489	509	UGCCAAAGGAGAGUUGCCUG	UAGGGAGAAUUCCUUUGGCA	Clivagem
spe-miR399-1-5p	Sopen07g010120.1	3.0	21.38	1	20	2002	2021	GGGCUACGCUCUAUUGGCAU	GUGUUAUAGAAUGUAGCCC	Tradução
spe-miR399-1-5p	Sopen06g016130.1	3.0	15.28	1	20	259	278	GGGCUACGCUCUAUUGGCAU	GUUCCAAUAGAGAGUAGUCC	Clivagem
spe-miR399-2-3p	Sopen02g032980.1	3.0	14.631	1	21	3030	3050	UGCCAAAGGAGAGUUGCCCUA	UAGGAUAAUGCUCUUUGGCA	Clivagem
spe-miR399-2-3p	Sopen03g016120.1	3.0	23.231	1	21	489	509	UGCCAAAGGAGAGUUGCCCUA	UAGGGAGAAUUCCUUUGGCA	Clivagem
spe-miR399-2-3p	Sopen07g026190.1	2.5	22.948	1	20	482	501	UGCCAAAGGAGAGUUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-2-3p	Sopen07g026190.2	2.5	20.917	1	20	392	411	UGCCAAAGGAGAGUUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-3-3p	Sopen03g020000.1	2.5	19.111	1	20	592	611	CGCCAAAGGAGAGCUGCCCU	AGUGCGGUUCUCUUUUGGCG	Clivagem
spe-miR399-3-3p	Sopen08g019430.1	3.0	13.561	1	21	1055	1075	CGCCAAAGGAGAGCUGCCUG	UAGGGCAGCUUCUUUUGGUG	Tradução
spe-miR399-3-3p	Sopen07g026190.1	3.0	22.948	1	20	482	501	CGCCAAAGGAGAGCUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-3-3p	Sopen07g026190.2	3.0	20.917	1	20	392	411	CGCCAAAGGAGAGCUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-3-5p	Sopen06g016130.1	2.0	15.28	1	20	259	278	GGGCUACUCUCUAUUGGCAU	GUUCCAAUAGAGAGUAGUCC	Clivagem
spe-miR399-3-5p	Sopen01g036990.1	2.5	17.989	1	21	1020	1040	GGGCUACUCUCUAUUGGCAUG	UAUGUUAAGAGAGAGUAGUCC	Clivagem
spe-miR399-3-5p	Sopen03g012230.1	2.5	19.376	1	20	172	191	GGGCUACUCUCUAUUGGCAU	UUGCUAAUAGAAAGUAGCCC	Tradução
spe-miR399-3-5p	Sopen12g018160.1	3.0	17.477	1	20	1224	1243	GGGCUACUCUCUAUUGGCAU	UUGCCAAACAGAAAGUAGCCC	Tradução
spe-miR399-3-5p	Sopen03g011650.1	3.0	14.12	1	20	805	824	GGGCUACUCUCUAUUGGCAU	CUGACAAUAGAAAGUAGCCC	Tradução
spe-miR399-4-3p	Sopen03g020000.1	2.5	19.111	1	20	592	611	CGCCAAAGGAGAGCUGCCCU	AGUGCGGUUCUCUUUUGGCG	Clivagem
spe-miR399-4-3p	Sopen08g019430.1	3.0	13.561	1	21	1055	1075	CGCCAAAGGAGAGCUGCCUG	UAGGGCAGCUUCUUUUGGUG	Tradução
spe-miR399-4-3p	Sopen07g026190.1	3.0	22.948	1	20	482	501	CGCCAAAGGAGAGCUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-4-3p	Sopen07g026190.2	3.0	20.917	1	20	392	411	CGCCAAAGGAGAGCUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-4-5p	Sopen06g016130.1	2.0	15.28	1	20	259	278	GGGCUACUCUCUAUUGGCAU	GUUCCAAUAGAGAGUAGUCC	Clivagem
spe-miR399-4-5p	Sopen01g036990.1	2.5	17.989	1	21	1020	1040	GGGCUACUCUCUAUUGGCAUG	UAUGUUAAGAGAGAGUAGUCC	Clivagem

spe-miR399-4-5p	Sopen03g012230.1	2.5	19.376	1	20	172	191	GGGCUACUCUCUAUUGGCAU	UUGC UAAUAGAAAGUAGCCC	Tradução
spe-miR399-4-5p	Sopen12g018160.1	3.0	17.477	1	20	1224	1243	GGGCUACUCUCUAUUGGCAU	UUGCCAACAGAAAGUAGCCC	Tradução
spe-miR399-4-5p	Sopen03g011650.1	3.0	14.12	1	20	805	824	GGGCUACUCUCUAUUGGCAU	CUGACAAUAGAAAGUAGCCC	Tradução
spe-miR399-5-3p	Sopen03g020000.1	2.5	19.111	1	20	592	611	CGCCAAAGGAGAGCUGCCCU	AGUGCGGUUCUCUUUUGGCG	Clivagem
spe-miR399-5-3p	Sopen08g019430.1	3.0	13.561	1	21	1055	1075	CGCCAAAGGAGAGCUGCCCU	UAGGGCAGCUUCUUUUGGUG	Tradução
spe-miR399-5-3p	Sopen07g026190.1	3.0	22.948	1	20	482	501	CGCCAAAGGAGAGCUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-5-3p	Sopen07g026190.2	3.0	20.917	1	20	392	411	CGCCAAAGGAGAGCUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-5-5p	Sopen06g016130.1	2.0	15.28	1	20	259	278	GGGCUACUCUCUAUUGGCAU	GUUCCAAUAGAGAGUAGUCC	Clivagem
spe-miR399-5-5p	Sopen01g036990.1	2.5	17.989	1	21	1020	1040	GGGCUACUCUCUAUUGGCAUG	UAUGUUAGAGAGAGUAGUCC	Clivagem
spe-miR399-5-5p	Sopen03g012230.1	2.5	19.376	1	20	172	191	GGGCUACUCUCUAUUGGCAU	UUGC UAAUAGAAAGUAGCCC	Tradução
spe-miR399-5-5p	Sopen12g018160.1	3.0	17.477	1	20	1224	1243	GGGCUACUCUCUAUUGGCAU	UUGCCAACAGAAAGUAGCCC	Tradução
spe-miR399-5-5p	Sopen03g011650.1	3.0	14.12	1	20	805	824	GGGCUACUCUCUAUUGGCAU	CUGACAAUAGAAAGUAGCCC	Tradução
spe-miR399-6-3p	Sopen03g020000.1	2.5	19.111	1	20	592	611	CGCCAAAGGAGAGCUGCCCU	AGUGCGGUUCUCUUUUGGCG	Clivagem
spe-miR399-6-3p	Sopen08g019430.1	3.0	13.561	1	21	1055	1075	CGCCAAAGGAGAGCUGCCCU	UAGGGCAGCUUCUUUUGGUG	Tradução
spe-miR399-6-3p	Sopen07g026190.1	3.0	22.948	1	20	482	501	CGCCAAAGGAGAGCUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-6-3p	Sopen07g026190.2	3.0	20.917	1	20	392	411	CGCCAAAGGAGAGCUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-6-5p	Sopen06g016130.1	2.0	15.28	1	20	259	278	GGGCUACUCUCUAUUGGCAU	GUUCCAAUAGAGAGUAGUCC	Clivagem
spe-miR399-6-5p	Sopen01g036990.1	2.5	17.989	1	21	1020	1040	GGGCUACUCUCUAUUGGCAUG	UAUGUUAGAGAGAGUAGUCC	Clivagem
spe-miR399-6-5p	Sopen03g012230.1	2.5	19.376	1	20	172	191	GGGCUACUCUCUAUUGGCAU	UUGC UAAUAGAAAGUAGCCC	Tradução
spe-miR399-6-5p	Sopen12g018160.1	3.0	17.477	1	20	1224	1243	GGGCUACUCUCUAUUGGCAU	UUGCCAACAGAAAGUAGCCC	Tradução
spe-miR399-6-5p	Sopen03g011650.1	3.0	14.12	1	20	805	824	GGGCUACUCUCUAUUGGCAU	CUGACAAUAGAAAGUAGCCC	Tradução
spe-miR399-7-3p	Sopen07g026190.1	2.5	22.948	1	20	482	501	UGCCAAAGGAGAGUUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-7-3p	Sopen07g026190.2	2.5	20.917	1	20	392	411	UGCCAAAGGAGAGUUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399-7-3p	Sopen02g032980.1	3.0	14.631	1	21	3030	3050	UGCCAAAGGAGAGUUGCCCU	UAGGAUAAUGCUCCUUUGGCA	Clivagem
spe-miR399-7-3p	Sopen03g016120.1	3.0	23.231	1	21	489	509	UGCCAAAGGAGAGUUGCCCU	UAGGGAGAAUUCUUUGGCA	Clivagem
spe-miR399-7-5p.1	Sopen06g016130.1	1.5	15.28	1	20	259	278	GGACUACUCUCUAUUGGCAU	GUUCCAAUAGAGAGUAGUCC	Clivagem
spe-miR399-7-5p.1	Sopen01g036990.1	2.0	17.989	1	21	1020	1040	GGACUACUCUCUAUUGGCAUG	UAUGUUAGAGAGAGUAGUCC	Clivagem
spe-miR399-7-5p.2	Sopen04g003800.1	3.0	17.064	1	20	707	726	CGCCAAAGGAAUGCUGCACU	AGUGCAGCAUUUUAUUGGUC	Clivagem
spe-miR399-8-3p	Sopen03g020000.1	2.0	19.111	1	20	592	611	UGCCAAAGGAGAAUUGCACU	AGUGCGGUUCUCUUUUGGCG	Clivagem
spe-miR399-8-3p	Sopen01g018940.1	2.0	21.887	1	20	347	366	UGCCAAAGGAGAAUUGCACU	AGUCCAAUUUUUCUUUGGCA	Clivagem
spe-miR399-8-3p	Sopen05g033460.1	3.0	15.786	1	21	561	581	UGCCAAAGGAGAAUUGCACUG	CAGUGCAAUUGUCCUUGGCA	Tradução
spe-miR399-8-3p	Sopen02g008690.1	2.5	17.224	1	20	10	29	UGCCAAAGGAGAAUUGCACU	AGUGUAAUUAUCAUUUGGCA	Tradução
spe-miR399-8-3p	Sopen05g001600.5	3.0	18.553	1	20	254	273	UGCCAAAGGAGAAUUGCACU	AGUCCAAUUGUGCUUUGGCA	Tradução
spe-miR399-8-3p	Sopen05g001600.4	3.0	18.553	1	20	410	429	UGCCAAAGGAGAAUUGCACU	AGUCCAAUUGUGCUUUGGCA	Tradução
spe-miR399-8-3p	Sopen05g001600.1	3.0	18.553	1	20	962	981	UGCCAAAGGAGAAUUGCACU	AGUCCAAUUGUGCUUUGGCA	Tradução

spe-miR399-8-3p	Sopen05g001600.2	3.0	18.553	1	20	974	993	UGCCAAAGGAGAAUUGCACU	AGUCCAAUUGUGCUUUGGCA	Tradução
spe-miR399-8-3p	Sopen05g001600.3	3.0	18.553	1	20	1049	1068	UGCCAAAGGAGAAUUGCACU	AGUCCAAUUGUGCUUUGGCA	Tradução
spe-miR399-8-3p	Sopen03g035660.1	3.0	20.733	1	20	2071	2091	UGCCAAAG-GAGAAUUGCACU	GGUGCAAUUCUGGCUUUGGCA	Tradução
spe-miR399-8-5p	Sopen01g001640.1	3.0	16.483	1	21	711	731	CAGGGCAAUUCUCCUUUGGCA	UGCUGAAGGAAAAUUGCCCUA	Tradução
spe-miR399-8-5p	Sopen02g039050.1	2.5	18.214	1	21	263	283	CAGGGCAAUUCUCCUUUGGCA	UGACAAAGGAUGAUUGCCUG	Tradução
spe-miR399-8-5p	Sopen02g032040.1	2.5	23.073	1	21	432	452	CAGGGCAAUUCUCCUUUGGCA	UGACGAAGAAGAAUUGCCUG	Clivagem
spe-miR399-8-5p	Sopen11g002240.1	2.5	20.953	1	20	225	244	CAGGGCAAUUCUCCUUUGGC	UCCAAUGGAGAAUUGUCCUG	Clivagem
spe-miR399-8-5p	Sopen03g012120.1	3.0	20.038	1	20	1593	1612	CAGGGCAAUUCUCCUUUGGC	UCUAGAGGAGAACUGCCUG	Clivagem
spe-miR399-8-5p	Sopen04g032230.1	3.0	15.159	1	20	3422	3441	CAGGGCAAUUCUCCUUUGGC	GUCAAAGGAAUUUGCCUUG	Tradução
spe-miR399-8-5p	Sopen05g029420.1	3.0	15.163	1	20	3263	3282	CAGGGCAAUUCUCCUUUGGC	GUCAAAGGAAUUUGCCUUG	Tradução
spe-miR399-8-5p	Sopen05g029420.1	3.0	15.163	1	20	5072	5091	CAGGGCAAUUCUCCUUUGGC	GUCAAAGGAAUUUGCCUUG	Tradução
spe-miR399-9-3p	Sopen03g016120.1	2.0	23.231	1	21	489	509	UGCCAAAGGAGAUUUGCCCUA	UAGGGAGAAUUUCCUUUGGCA	Clivagem
spe-miR399-9-3p	Sopen05g025730.1	3.0	15.646	1	21	552	573	UGCCAAAGGAGAUU-UGCCCUA	UAGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen11g022310.1	3.0	20.294	1	21	1608	1629	UGCCAAAGGAGAUU-UGCCCUA	UAGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen09g010430.1	2.5	23.049	1	21	1296	1317	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUCCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen03g011270.1	3.0	11.472	1	21	825	846	UGCCAAAGGAGAUU-UGCCCUA	UAGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen02g009680.1	3.0	18.228	1	21	1725	1746	UGCCAAAGGAGAUU-UGCCCUA	UAGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen07g006960.2	3.0	11.925	1	21	2106	2127	UGCCAAAGGAGAUU-UGCCCUA	UAGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen07g006960.1	3.0	11.925	1	21	2142	2163	UGCCAAAGGAGAUU-UGCCCUA	UAGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen06g008270.1	3.0	23.347	1	21	1542	1562	UGCCAAAGGAGAUUUGCCCUA	UAGGAGAGAUUCCUUUGGCA	Clivagem
spe-miR399-9-3p	Sopen05g026610.1	3.0	18.147	1	21	183	204	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen05g010170.1	3.0	12.996	1	21	120	141	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen04g020080.1	3.0	18.174	1	21	267	288	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen04g022420.1	3.0	14.955	1	21	684	705	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen10g007910.1	3.0	16.211	1	21	618	639	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen04g021320.1	3.0	17.305	1	21	252	273	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen11g021760.1	3.0	16.708	1	21	120	141	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen04g021160.1	3.0	18.391	1	21	885	906	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen02g009810.1	3.0	23.154	1	21	603	624	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen05g010970.1	3.0	13.972	1	21	696	717	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen05g021630.1	3.0	20.038	1	21	825	846	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen12g017450.1	3.0	16.1	1	21	492	513	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen01g015090.1	3.0	18.851	1	21	240	261	UGCCAAAGGAGA-UUUGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen05g026160.1	3.0	17.519	1	21	1050	1071	UGCCAAAGGAGA-UUUGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen03g020390.1	3.0	16.168	1	21	1014	1035	UGCCAAAGGAGA-UUUGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem

spe-miR399-9-3p	Sopen05g015090.1	3.0	17.778	1	21	1122	1143	UGCCAAAGGAGA-UUUGCCCUA	UGGGGCAAAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen01g007180.1	3.0	16.621	1	21	915	936	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen08g014620.1	3.0	15.383	1	21	897	918	UGCCAAAGGAGA-UUUGCCCUA	UGGGGCAAAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen01g018260.1	3.0	15.378	1	21	969	990	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen01g014750.1	3.0	17.032	1	21	819	840	UGCCAAAGGAGA-UUUGCCCUA	UGGGGCAAAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen11g011980.1	3.0	15.599	1	21	1530	1551	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen01g025130.1	3.0	17.893	1	21	1416	1437	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen01g014670.1	3.0	16.389	1	21	1203	1224	UGCCAAAGGAGA-UUUGCCCUA	UGGGGCAAAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen07g019040.1	3.0	17.334	1	21	768	789	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen01g020400.1	3.0	19.489	1	21	1617	1638	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen03g023850.1	3.0	18.717	1	21	1446	1467	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen01g021590.1	3.0	21.067	1	21	1854	1875	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen10g020260.1	3.0	19.58	1	21	1461	1482	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen04g023140.1	3.0	21.612	1	21	1596	1617	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen05g025320.1	3.0	17.5	1	21	351	372	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen05g010200.1	3.0	14.443	1	21	1596	1617	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen04g011480.1	3.0	13.173	1	21	3486	3507	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen10g006610.1	3.0	16.616	1	21	3627	3648	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen03g013860.1	3.0	24.245	1	21	3909	3930	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen06g006250.1	3.0	13.277	1	21	351	372	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen12g016700.1	3.0	18.492	1	21	882	903	UGCCAAAGGAGAUU-UGCCCUA	UGGGGUAGAAUCUUCUUUGGCA	Clivagem
spe-miR399-9-3p	Sopen07g021860.1	3.0	17.316	1	21	7239	7260	UGCCAAAGGAGAUU-UGCCCUA	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen06g006220.1	3.0	23.952	1	20	161	180	UGCCAAAGGAGAUUUGCCCU	GGGCCGAAUCUUCUUUGGUA	Clivagem
spe-miR399-9-3p	Sopen04g010440.1	3.0	15.694	1	20	674	693	UGCCAAAGGAGAUUUGCCCU	GGGCCGAAUCUUCUUUGGUA	Clivagem
spe-miR399a-1-3p	Sopen07g026190.1	2.0	22.948	1	20	482	501	UGCCAAAGGAGAGCUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399a-1-3p	Sopen07g026190.2	2.0	20.917	1	20	392	411	UGCCAAAGGAGAGCUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399a-1-3p	Sopen03g020000.1	3.0	19.111	1	20	592	611	UGCCAAAGGAGAGCUGCCCU	AGUGCGGUUCUCUUUUGGCG	Clivagem
spe-miR399a-1-5p	Sopen12g018160.1	2.0	17.477	1	20	1224	1243	GGGCUACUCUCUGUUGGCAU	UUGCCAAACAGAAAGUAGCCC	Tradução
spe-miR399a-1-5p	Sopen01g036990.1	2.5	17.989	1	21	1020	1040	GGGCUACUCUCUGUUGGCAUG	UAUGUUAGAGAGAGUAGUCC	Clivagem
spe-miR399a-1-5p	Sopen08g012110.1	2.5	21.476	1	20	4261	4280	GGGCUACUCUCUGUUGGCAU	UUGCUAACAGAAAGUAGCCC	Tradução
spe-miR399a-1-5p	Sopen03g014410.1	2.5	16.348	1	20	3616	3635	GGGCUACUCUCUGUUGGCAU	UUGCUAACAGAAAGUAGCCC	Tradução
spe-miR399a-1-5p	Sopen06g016130.1	2.5	15.28	1	20	259	278	GGGCUACUCUCUGUUGGCAU	GUUCCAAUAGAGAGUAGUCC	Clivagem
spe-miR399a-1-5p	Sopen03g012230.1	3.0	19.376	1	20	172	191	GGGCUACUCUCUGUUGGCAU	UUGCUAAUAGAAAGUAGCCC	Tradução
spe-miR399a-1-5p	Sopen01g040990.1	2.5	11.54	1	20	4911	4930	GGGCUACUCUCUGUUGGCAU	AUGCAAACAAAGAGUAGCUC	Tradução
spe-miR399a-2-3p	Sopen07g026190.1	2.0	22.948	1	20	482	501	UGCCAAAGGAGAGCUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução

spe-miR399a-2-3p	Sopen07g026190.2	2.0	20.917	1	20	392	411	UGCCAAAGGAGAGCUGCCCU	AAGGCAGCUAUCCUUUGGCA	Tradução
spe-miR399a-2-3p	Sopen03g020000.1	3.0	19.111	1	20	592	611	UGCCAAAGGAGAGCUGCCCU	AGUGCGGUUCUCUUUUGGCG	Clivagem
spe-miR399a-2-5p	Sopen06g016130.1	2.0	15.28	1	20	259	278	GGGCUACUCUCUAUUGGCAU	GUUCCAAUAGAGAGUAGUCC	Clivagem
spe-miR399a-2-5p	Sopen01g036990.1	2.5	17.989	1	21	1020	1040	GGGCUACUCUCUAUUGGCAUG	UAUGUUAAAGAGAGUAGUCC	Clivagem
spe-miR399a-2-5p	Sopen03g012230.1	2.5	19.376	1	20	172	191	GGGCUACUCUCUAUUGGCAU	UUGCUAAUAGAAAGUAGCCC	Tradução
spe-miR399a-2-5p	Sopen12g018160.1	3.0	17.477	1	20	1224	1243	GGGCUACUCUCUAUUGGCAU	UUGCCAAACAGAAAGUAGCCC	Tradução
spe-miR399a-2-5p	Sopen03g011650.1	3.0	14.12	1	20	805	824	GGGCUACUCUCUAUUGGCAU	CUGACAAUAGAAAGUAGCCC	Tradução
spe-miR399d-3p	Sopen04g010440.1	2.0	15.694	1	20	674	693	UGCCAAAGAAGAUUUGCCCC	GGGCCGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen06g006220.1	2.0	23.952	1	20	161	180	UGCCAAAGAAGAUUUGCCCC	GGGCCGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen07g021860.1	2.5	17.316	1	21	7239	7260	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen12g016700.1	2.5	18.492	1	21	882	903	UGCCAAAGAAGAUU-UGCCCCG	UGGGGUAGAAUCUUCUUUGGCA	Clivagem
spe-miR399d-3p	Sopen06g006250.1	2.5	13.277	1	21	351	372	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen03g013860.1	2.5	24.245	1	21	3909	3930	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen10g006610.1	2.5	16.616	1	21	3627	3648	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen04g011480.1	2.5	13.173	1	21	3486	3507	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen05g010200.1	2.5	14.443	1	21	1596	1617	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen05g025320.1	2.5	17.5	1	21	351	372	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen04g023140.1	2.5	21.612	1	21	1596	1617	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen10g020260.1	2.5	19.58	1	21	1461	1482	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen01g021590.1	2.5	21.067	1	21	1854	1875	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen03g023850.1	2.5	18.717	1	21	1446	1467	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen01g020400.1	2.5	19.489	1	21	1617	1638	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen07g019040.1	2.5	17.334	1	21	768	789	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen01g014670.1	2.5	16.389	1	21	1203	1224	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen01g025130.1	2.5	17.893	1	21	1416	1437	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen11g011980.1	2.5	15.599	1	21	1530	1551	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen01g014750.1	2.5	17.032	1	21	819	840	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen08g014620.1	2.5	15.383	1	21	897	918	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen01g018260.1	2.5	15.378	1	21	969	990	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen01g007180.1	2.5	16.621	1	21	915	936	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen05g015090.1	2.5	17.778	1	21	1122	1143	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen03g020390.1	2.5	16.168	1	21	1014	1035	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen05g026160.1	2.5	17.519	1	21	1050	1071	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen01g015090.1	2.5	18.851	1	21	240	261	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen12g017450.1	2.5	16.1	1	21	492	513	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem

spe-miR399d-3p	Sopen05g021630.1	2.5	20.038	1	21	825	846	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen05g010970.1	2.5	13.972	1	21	696	717	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen02g009810.1	2.5	23.154	1	21	603	624	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen04g021160.1	2.5	18.391	1	21	885	906	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen11g021760.1	2.5	16.708	1	21	120	141	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen04g021320.1	2.5	17.305	1	21	252	273	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen10g007910.1	2.5	16.211	1	21	618	639	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen04g022420.1	2.5	14.955	1	21	684	705	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen04g020080.1	2.5	18.174	1	21	267	288	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen05g010170.1	2.5	12.996	1	21	120	141	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen04g011500.1	3.0	15.829	1	21	330	351	UGCCAAAGAAGAUU-UGCCCCG	CGGGGCAGAAUCUUUUUGGUA	Clivagem
spe-miR399d-3p	Sopen05g026610.1	2.5	18.147	1	21	183	204	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen01g027000.1	2.5	20.142	1	20	932	951	UGCCAAAGAAGAUUUGCCCC	GGGCUGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen12g026780.1	3.0	17.332	1	21	969	990	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCGGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen07g008020.1	3.0	15.614	1	21	2553	2574	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUUUUGGUA	Clivagem
spe-miR399d-3p	Sopen03g011470.1	3.0	19.75	1	21	771	792	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAGUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen03g016530.1	3.0	19.82	1	21	1791	1812	UGCCAAAGAAGAUU-UGCCCCG	UGGGGUAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen07g017750.1	3.0	18.802	1	21	966	987	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUG	Clivagem
spe-miR399d-3p	Sopen03g017240.1	3.0	11.554	1	21	456	477	UGCCAAAGAAGAUU-UGCCCCG	UGGGGUAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen07g018880.1	2.5	13.356	1	20	4559	4578	UGCCAAAGAAGAUUUGCCCC	GGGUAAAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen11g021550.1	3.0	18.454	1	20	4277	4296	UGCCAAAGAAGAUUUGCCCC	GGGCUGAAUCUUCUUUGGUG	Clivagem
spe-miR399d-3p	Sopen11g014130.1	2.5	14.955	1	20	2330	2349	UGCCAAAGAAGAUUUGCCCC	GGGAAAAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen12g025590.1	2.5	14.297	1	20	1049	1068	UGCCAAAGAAGAUUUGCCCC	GGGCCAAAUCAUCUUUGGUA	Tradução
spe-miR399d-3p	Sopen12g025560.1	2.5	18.888	1	20	1662	1681	UGCCAAAGAAGAUUUGCCCC	GGGCCAAAUCGUCUUUGGUA	Tradução
spe-miR399d-3p	Sopen01g015130.1	2.5	13.484	1	20	917	936	UGCCAAAGAAGAUUUGCCCC	GGGAAAAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen05g025230.1	3.0	16.107	1	21	2370	2390	UGCCAAAGAAGAUUUGCCCCG	UGGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen10g024040.1	3.0	18.055	1	21	1585	1605	UGCCAAAGAAGAUUUGCCCCG	UGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen10g026120.1	3.0	15.128	1	21	1255	1275	UGCCAAAGAAGAUUUGCCCCG	UGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen02g004020.1	3.0	17.42	1	21	1173	1194	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAAUCGUCUUUGGCA	Tradução
spe-miR399d-3p	Sopen08g010920.1	3.0	15.073	1	21	820	841	UGCCAAAGAAGAUU-UGCCCCG	UGGAGCAGAAUCUUCUUUGGCA	Clivagem
spe-miR399d-3p	Sopen01g008750.1	3.0	15.206	1	20	2312	2331	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen01g024780.1	3.0	15.618	1	20	1145	1164	UGCCAAAGAAGAUUUGCCCC	GGGGAGAAUCGUCUUUGGUA	Tradução
spe-miR399d-3p	Sopen07g006960.1	2.5	11.925	1	19	2144	2163	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen07g006960.2	2.5	11.925	1	19	2108	2127	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen08g006150.1	3.0	15.015	1	20	38	57	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem

spe-miR399d-3p	Sopen02g009680.1	2.5	18.228	1	19	1727	1746	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen03g011270.1	2.5	11.472	1	19	827	846	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen04g009280.1	3.0	18.848	1	20	986	1005	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen11g022310.1	2.5	20.294	1	19	1610	1629	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen01g009020.1	3.0	16.391	1	20	1415	1434	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen02g006260.1	3.0	21.665	1	20	1217	1236	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen05g025260.1	3.0	18.105	1	20	962	981	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen07g017620.1	3.0	16.225	1	20	1088	1107	UGCCAAAGAAGAUUUGCCCC	GGGUAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen05g025730.1	2.5	15.646	1	19	554	573	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen05g021640.1	3.0	15.348	1	20	977	996	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen09g012130.1	3.0	17.745	1	20	941	960	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen05g024970.1	3.0	15.718	1	20	557	576	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399d-3p	Sopen01g014990.1	3.0	14.326	1	20	395	414	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen04g010440.1	2.0	15.694	1	20	674	693	UGCCAAAGAAGAUUUGCCCC	GGGCCGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen06g006220.1	2.0	23.952	1	20	161	180	UGCCAAAGAAGAUUUGCCCC	GGGCCGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen07g021860.1	2.5	17.316	1	21	7239	7260	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen12g016700.1	2.5	18.492	1	21	882	903	UGCCAAAGAAGAUU-UGCCCCG	UGGGGUAGAAUCUUCUUUGGCA	Clivagem
spe-miR399r-1-3p	Sopen06g006250.1	2.5	13.277	1	21	351	372	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen03g013860.1	2.5	24.245	1	21	3909	3930	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen10g006610.1	2.5	16.616	1	21	3627	3648	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen04g011480.1	2.5	13.173	1	21	3486	3507	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen05g010200.1	2.5	14.443	1	21	1596	1617	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen05g025320.1	2.5	17.5	1	21	351	372	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen04g023140.1	2.5	21.612	1	21	1596	1617	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen10g020260.1	2.5	19.58	1	21	1461	1482	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen01g021590.1	2.5	21.067	1	21	1854	1875	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen03g023850.1	2.5	18.717	1	21	1446	1467	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen01g020400.1	2.5	19.489	1	21	1617	1638	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen07g019040.1	2.5	17.334	1	21	768	789	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen01g014670.1	2.5	16.389	1	21	1203	1224	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen01g025130.1	2.5	17.893	1	21	1416	1437	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen11g011980.1	2.5	15.599	1	21	1530	1551	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen01g014750.1	2.5	17.032	1	21	819	840	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen08g014620.1	2.5	15.383	1	21	897	918	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen01g018260.1	2.5	15.378	1	21	969	990	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem

spe-miR399r-1-3p	Sopen01g007180.1	2.5	16.621	1	21	915	936	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen05g015090.1	2.5	17.778	1	21	1122	1143	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAAAAUUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen03g020390.1	2.5	16.168	1	21	1014	1035	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAAAAUUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen05g026160.1	2.5	17.519	1	21	1050	1071	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAAAAUUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen01g015090.1	2.5	18.851	1	21	240	261	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAAAAUUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen12g017450.1	2.5	16.1	1	21	492	513	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen05g021630.1	2.5	20.038	1	21	825	846	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen05g010970.1	2.5	13.972	1	21	696	717	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen02g009810.1	2.5	23.154	1	21	603	624	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen04g021160.1	2.5	18.391	1	21	885	906	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen11g021760.1	2.5	16.708	1	21	120	141	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen04g021320.1	2.5	17.305	1	21	252	273	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen10g007910.1	2.5	16.211	1	21	618	639	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen04g022420.1	2.5	14.955	1	21	684	705	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen04g020080.1	2.5	18.174	1	21	267	288	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen05g010170.1	2.5	12.996	1	21	120	141	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen04g011500.1	3.0	15.829	1	21	330	351	UGCCAAAGAAGAUU-UGCCCCG	CGGGGCAGAAUCUUUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen05g026610.1	2.5	18.147	1	21	183	204	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen01g027000.1	2.5	20.142	1	20	932	951	UGCCAAAGAAGAUUUGCCCC	GGGCUGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen12g026780.1	3.0	17.332	1	21	969	990	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCGGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen07g008020.1	3.0	15.614	1	21	2553	2574	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen03g011470.1	3.0	19.75	1	21	771	792	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAGUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen03g016530.1	3.0	19.82	1	21	1791	1812	UGCCAAAGAAGAUU-UGCCCCG	UGGGGUAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen07g017750.1	3.0	18.802	1	21	966	987	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUG	Clivagem
spe-miR399r-1-3p	Sopen03g017240.1	3.0	11.554	1	21	456	477	UGCCAAAGAAGAUU-UGCCCCG	UGGGGUAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen07g018880.1	2.5	13.356	1	20	4559	4578	UGCCAAAGAAGAUUUGCCCC	GGGUAAAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen11g021550.1	3.0	18.454	1	20	4277	4296	UGCCAAAGAAGAUUUGCCCC	GGGCUGAAUCUUCUUUGGUG	Clivagem
spe-miR399r-1-3p	Sopen11g014130.1	2.5	14.955	1	20	2330	2349	UGCCAAAGAAGAUUUGCCCC	GGGAAAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen12g025590.1	2.5	14.297	1	20	1049	1068	UGCCAAAGAAGAUUUGCCCC	GGGCCAAAUCAUCUUUGGUA	Tradução
spe-miR399r-1-3p	Sopen12g025560.1	2.5	18.888	1	20	1662	1681	UGCCAAAGAAGAUUUGCCCC	GGGCCAAAUCGUCUUUGGUA	Tradução
spe-miR399r-1-3p	Sopen01g015130.1	2.5	13.484	1	20	917	936	UGCCAAAGAAGAUUUGCCCC	GGGAAAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen05g025230.1	3.0	16.107	1	21	2370	2390	UGCCAAAGAAGAUUUGCCCCG	UGGGAAGAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen10g024040.1	3.0	18.055	1	21	1585	1605	UGCCAAAGAAGAUUUGCCCCG	UGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen10g026120.1	3.0	15.128	1	21	1255	1275	UGCCAAAGAAGAUUUGCCCCG	UGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen02g004020.1	3.0	17.42	1	21	1173	1194	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAAAUCGUCUUUGGCA	Tradução

spe-miR399r-1-3p	Sopen08g010920.1	3.0	15.073	1	21	820	841	UGCCAAAGAAGAUU-UGCCCCG	UGGAGCAGAAUCUUCUUUGGCA	Clivagem
spe-miR399r-1-3p	Sopen01g008750.1	3.0	15.206	1	20	2312	2331	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen01g024780.1	3.0	15.618	1	20	1145	1164	UGCCAAAGAAGAUUUGCCCC	GGGGAGAAUCGUCUUUGGUA	Tradução
spe-miR399r-1-3p	Sopen07g006960.1	2.5	11.925	1	19	2144	2163	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen07g006960.2	2.5	11.925	1	19	2108	2127	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen08g006150.1	3.0	15.015	1	20	38	57	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen02g009680.1	2.5	18.228	1	19	1727	1746	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen03g011270.1	2.5	11.472	1	19	827	846	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen04g009280.1	3.0	18.848	1	20	986	1005	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen11g022310.1	2.5	20.294	1	19	1610	1629	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen01g009020.1	3.0	16.391	1	20	1415	1434	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen02g006260.1	3.0	21.665	1	20	1217	1236	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen05g025260.1	3.0	18.105	1	20	962	981	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen07g017620.1	3.0	16.225	1	20	1088	1107	UGCCAAAGAAGAUUUGCCCC	GGGUAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen05g025730.1	2.5	15.646	1	19	554	573	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen05g021640.1	3.0	15.348	1	20	977	996	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen09g012130.1	3.0	17.745	1	20	941	960	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen05g024970.1	3.0	15.718	1	20	557	576	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-1-3p	Sopen01g014990.1	3.0	14.326	1	20	395	414	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen04g010440.1	2.0	15.694	1	20	674	693	UGCCAAAGAAGAUUUGCCCC	GGGCCGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen06g006220.1	2.0	23.952	1	20	161	180	UGCCAAAGAAGAUUUGCCCC	GGGCCGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen07g021860.1	2.5	17.316	1	21	7239	7260	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen12g016700.1	2.5	18.492	1	21	882	903	UGCCAAAGAAGAUU-UGCCCCG	UGGGGUAGAAUCUUCUUUGGCA	Clivagem
spe-miR399r-2-3p	Sopen06g006250.1	2.5	13.277	1	21	351	372	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen03g013860.1	2.5	24.245	1	21	3909	3930	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen10g006610.1	2.5	16.616	1	21	3627	3648	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen04g011480.1	2.5	13.173	1	21	3486	3507	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen05g010200.1	2.5	14.443	1	21	1596	1617	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen05g025320.1	2.5	17.5	1	21	351	372	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen04g023140.1	2.5	21.612	1	21	1596	1617	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen10g020260.1	2.5	19.58	1	21	1461	1482	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen01g021590.1	2.5	21.067	1	21	1854	1875	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen03g023850.1	2.5	18.717	1	21	1446	1467	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen01g020400.1	2.5	19.489	1	21	1617	1638	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen07g019040.1	2.5	17.334	1	21	768	789	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem

spe-miR399r-2-3p	Sopen01g014670.1	2.5	16.389	1	21	1203	1224	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAAAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen01g025130.1	2.5	17.893	1	21	1416	1437	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen11g011980.1	2.5	15.599	1	21	1530	1551	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen01g014750.1	2.5	17.032	1	21	819	840	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAAAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen08g014620.1	2.5	15.383	1	21	897	918	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAAAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen01g018260.1	2.5	15.378	1	21	969	990	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen01g007180.1	2.5	16.621	1	21	915	936	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen05g015090.1	2.5	17.778	1	21	1122	1143	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAAAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen03g020390.1	2.5	16.168	1	21	1014	1035	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAAAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen05g026160.1	2.5	17.519	1	21	1050	1071	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAAAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen01g015090.1	2.5	18.851	1	21	240	261	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAAAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen12g017450.1	2.5	16.1	1	21	492	513	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen05g021630.1	2.5	20.038	1	21	825	846	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen05g010970.1	2.5	13.972	1	21	696	717	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen02g009810.1	2.5	23.154	1	21	603	624	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen04g021160.1	2.5	18.391	1	21	885	906	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen11g021760.1	2.5	16.708	1	21	120	141	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen04g021320.1	2.5	17.305	1	21	252	273	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen10g007910.1	2.5	16.211	1	21	618	639	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen04g022420.1	2.5	14.955	1	21	684	705	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen04g020080.1	2.5	18.174	1	21	267	288	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen05g010170.1	2.5	12.996	1	21	120	141	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen04g011500.1	3.0	15.829	1	21	330	351	UGCCAAAGAAGAUU-UGCCCCG	CGGGGCAGAAUCUUUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen05g026610.1	2.5	18.147	1	21	183	204	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen01g027000.1	2.5	20.142	1	20	932	951	UGCCAAAGAAGAUUUGCCCC	GGGCUGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen12g026780.1	3.0	17.332	1	21	969	990	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCGGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen07g008020.1	3.0	15.614	1	21	2553	2574	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen03g011470.1	3.0	19.75	1	21	771	792	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAGAGUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen03g016530.1	3.0	19.82	1	21	1791	1812	UGCCAAAGAAGAUU-UGCCCCG	UGGGGUAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen07g017750.1	3.0	18.802	1	21	966	987	UGCCAAAGAAGAUU-UGCCCCG	UGGGGCAGAAUCUUCUUUGGUG	Clivagem
spe-miR399r-2-3p	Sopen03g017240.1	3.0	11.554	1	21	456	477	UGCCAAAGAAGAUU-UGCCCCG	UGGGGUAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen07g018880.1	2.5	13.356	1	20	4559	4578	UGCCAAAGAAGAUUUGCCCC	GGGUAAAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen11g021550.1	3.0	18.454	1	20	4277	4296	UGCCAAAGAAGAUUUGCCCC	GGGCUGAAUCUUCUUUGGUG	Clivagem
spe-miR399r-2-3p	Sopen11g014130.1	2.5	14.955	1	20	2330	2349	UGCCAAAGAAGAUUUGCCCC	GGGAAAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen12g025590.1	2.5	14.297	1	20	1049	1068	UGCCAAAGAAGAUUUGCCCC	GGGCCAAUCAUCUUUGGUA	Tradução

spe-miR399r-2-3p	Sopen12g025560.1	2.5	18.888	1	20	1662	1681	UGCCAAAGAAGAUUUGCCCC	GGGCCAAAUCGUCUUUGGUA	Tradução
spe-miR399r-2-3p	Sopen01g015130.1	2.5	13.484	1	20	917	936	UGCCAAAGAAGAUUUGCCCC	GGGAAAAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen05g025230.1	3.0	16.107	1	21	2370	2390	UGCCAAAGAAGAUUUGCCCCG	UGGGAAGAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen10g024040.1	3.0	18.055	1	21	1585	1605	UGCCAAAGAAGAUUUGCCCCG	UGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen10g026120.1	3.0	15.128	1	21	1255	1275	UGCCAAAGAAGAUUUGCCCCG	UGGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen02g004020.1	3.0	17.42	1	21	1173	1194	UGCCAAAGAAGA-UUUGCCCCG	UGGGGCAAAAUCGUCUUUGGCA	Tradução
spe-miR399r-2-3p	Sopen08g010920.1	3.0	15.073	1	21	820	841	UGCCAAAGAAGAUU-UGCCCCG	UGGAGCAGAAUCUUCUUUGGCA	Clivagem
spe-miR399r-2-3p	Sopen01g008750.1	3.0	15.206	1	20	2312	2331	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen01g024780.1	3.0	15.618	1	20	1145	1164	UGCCAAAGAAGAUUUGCCCC	GGGGAGAAUCGUCUUUGGUA	Tradução
spe-miR399r-2-3p	Sopen07g006960.1	2.5	11.925	1	19	2144	2163	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen07g006960.2	2.5	11.925	1	19	2108	2127	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen08g006150.1	3.0	15.015	1	20	38	57	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen02g009680.1	2.5	18.228	1	19	1727	1746	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen03g011270.1	2.5	11.472	1	19	827	846	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen04g009280.1	3.0	18.848	1	20	986	1005	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen11g022310.1	2.5	20.294	1	19	1610	1629	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen01g009020.1	3.0	16.391	1	20	1415	1434	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen02g006260.1	3.0	21.665	1	20	1217	1236	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen05g025260.1	3.0	18.105	1	20	962	981	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen07g017620.1	3.0	16.225	1	20	1088	1107	UGCCAAAGAAGAUUUGCCCC	GGGUAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen05g025730.1	2.5	15.646	1	19	554	573	UGCCAAAGAAGAUU-UGCCC	GGGCAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen05g021640.1	3.0	15.348	1	20	977	996	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen09g012130.1	3.0	17.745	1	20	941	960	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen05g024970.1	3.0	15.718	1	20	557	576	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR399r-2-3p	Sopen01g014990.1	3.0	14.326	1	20	395	414	UGCCAAAGAAGAUUUGCCCC	GGGAAGAAUCUUCUUUGGUA	Clivagem
spe-miR403-2-3p	Sopen07g002450.1	3.0	15.53	1	21	537	557	UUAGAUUCACGCACAAACGCG	UGUGUUUGUUCUUGAAUCUGA	Tradução
spe-miR408-3p	Sopen11g026930.1	3.0	18.039	1	21	303	323	UGCUCUGGCUCGUCCCCGUCU	GGAUGGGGAGGAUCCGGAGCA	Tradução
spe-miR408-5p	Sopen11g015750.1	3.0	16.542	1	20	3628	3647	CAGGGAAGAGGCAGUGCAUG	UAUGCAUUGCCUCUUCUAUG	Clivagem
spe-miR408-5p	Sopen09g012530.1	2.5	24.805	1	20	1511	1530	CAGGGAAGAGGCAGUGCAUG	CAUCCAUUGCUUCUUCUCUG	Clivagem
spe-miR408-5p	Sopen06g031810.1	3.0	20.513	1	21	2349	2369	CAGGGAAGAGGCAGUGCAUGG	UCAUGCAUUGCGUCUUCACUG	Tradução
spe-miR408b-3p	Sopen10g017610.1	3.0	16.633	1	21	28	48	UGCACUGCCUCUUCCUGGCU	AGACAGGGAGGAGGAAGUGCA	Clivagem
spe-miR408b-3p	Sopen04g027480.1	3.0	23.825	1	21	477	497	UGCACUGCCUCUUCCUGGCU	GGCUGGGGAGGGGCCAGUGCA	Clivagem
spe-miR408b-3p	Sopen05g033370.3	3.0	16.8	1	21	1460	1480	UGCACUGCCUCUUCCUGGCU	GGCCAGCUAAGAGGCAGUGUG	Clivagem
spe-miR408b-3p	Sopen05g033370.2	3.0	16.656	1	21	1736	1756	UGCACUGCCUCUUCCUGGCU	GGCCAGCUAAGAGGCAGUGUG	Clivagem
spe-miR408b-3p	Sopen05g033370.1	3.0	16.8	1	21	1802	1822	UGCACUGCCUCUUCCUGGCU	GGCCAGCUAAGAGGCAGUGUG	Clivagem

spe-miR408b-3p	Sopen05g033370.4	3.0	16.8	1	21	1859	1879	UGCACUGCCUCUUCCCUGGCU	GGCCAGCUAAGAGGCAGUGUG	Clivagem
spe-miR408b-3p	Sopen06g002200.1	3.0	23.98	1	21	504	524	UGCACUGCCUCUUCCCUGGCU	GGCCAUAGAAGAAGCAGUGCA	Tradução
spe-miR408b-5p	Sopen01g032670.8	3.0	16.698	1	21	515	535	ACGGGGACGAGCCAGAGCAUG	CAUGUUCUGAUUCUUCCCCGU	Clivagem
spe-miR408b-5p	Sopen04g034450.1	3.0	18.512	1	20	168	187	ACGGGGACGAGCCAGAGCAU	AUGCUCUGCUUUCUCCUCGU	Clivagem
spe-miR4376-3p	Sopen02g023780.1	2.5	16.335	1	20	394	413	GCAUCAUACUCCUGCAUAUU	AAAAUGAAGGAGUGUGAUGC	Clivagem
spe-miR4376-3p	Sopen12g029760.1	3.0	16.144	1	20	703	722	GCAUCAUACUCCUGCAUAUU	GAUAUGCAGGAUGAUGGUGC	Tradução
spe-miR4376-3p	Sopen04g029530.1	3.0	17.112	1	20	718	737	GCAUCAUACUCCUGCAUAUU	GAUAUGCAGGAUGAUGGUGC	Tradução
spe-miR4376-3p	Sopen10g006160.1	2.5	17.54	1	19	1311	1330	GCAUCAUACUC-CUGCAUAU	AUAUGCAGUGAGUAUGGUGC	Clivagem
spe-miR4376-3p	Sopen09g021150.1	3.0	16.941	1	20	1621	1640	GCAUCAUACUCCUGCAUAUU	AAUAUGAAGGGUUAUGGUGC	Tradução
spe-miR4376-3p	Sopen06g003320.1	3.0	17.541	1	20	1167	1186	GCAUCAUACUCCUGCAUAUU	AAAAUUGAGGAGUAUGAUGC	Clivagem
spe-miR477-3p	Sopen10g029810.1	2.0	16.555	1	21	794	814	AGUUCUUGUAGGGUGAGACAU	AUGUUUCACCCUACGAGGAUU	Clivagem
spe-miR477-3p	Sopen12g009870.1	3.0	16.421	1	21	209	229	AGUUCUUGUAGGGUGAGACAU	AUGUUUCAUCCUCCAAGAACA	Tradução
spe-miR477-3p	Sopen05g025350.1	3.0	10.893	1	21	518	538	AGUUCUUGUAGGGUGAGACAU	GUGUUUCAUCCUCCAAGAACA	Tradução
spe-miR477-3p	Sopen12g009440.1	3.0	17.368	1	21	347	367	AGUUCUUGUAGGGUGAGACAU	GUGUUCCAUCCUACAAGAACG	Clivagem
spe-miR477-3p	Sopen01g009730.1	3.0	14.033	1	21	196	216	AGUUCUUGUAGGGUGAGACAU	GUGUUUCAUCCUCCAAGAACA	Tradução
spe-miR477-3p	Sopen06g018450.1	3.0	14.803	1	21	431	451	AGUUCUUGUAGGGUGAGACAU	GUGUUUCAUCCUCCAAGAACA	Tradução
spe-miR477-3p	Sopen08g017210.1	3.0	16.119	1	21	493	513	AGUUCUUGUAGGGUGAGACAU	GUGUUUCAUCCUCCAAGAACA	Tradução
spe-miR477-3p	Sopen10g017820.2	3.0	13.58	1	21	458	478	AGUUCUUGUAGGGUGAGACAU	GUGUUUCAUCCUCCAAGAACA	Tradução
spe-miR477-3p	Sopen00g009000.1	3.0	14.796	1	20	2250	2269	AGUUCUUGUAGGGUGAGACA	UGUCUCAUUUUUAAGAGUU	Clivagem
spe-miR477-3p	Sopen03g034540.1	3.0	17.956	1	21	667	687	AGUUCUUGUAGGGUGAGACAU	AUUUCCCACUCUACAAGAAUU	Clivagem
spe-miR477-3p	Sopen02g001890.1	3.0	17.629	1	21	261	281	AGUUCUUGUAGGGUGAGACAU	GUGUCUUACAUCACAAGAACU	Tradução
spe-miR477-3p	Sopen08g010360.1	3.0	17.383	1	21	248	268	AGUUCUUGUAGGGUGAGACAU	GUGUUCCAUCCUCCAAGAACU	Tradução
spe-miR477-3p	Sopen04g013590.1	3.0	22.315	1	21	127	147	AGUUCUUGUAGGGUGAGACAU	GUGUUCCAUCCUCCAAGAACU	Tradução
spe-miR477-3p	Sopen08g010350.1	3.0	17.626	1	21	1577	1597	AGUUCUUGUAGGGUGAGACAU	GUGUUCCAUCCUCCAAGAACU	Tradução
spe-miR477-3p	Sopen08g010370.1	3.0	17.223	1	21	307	327	AGUUCUUGUAGGGUGAGACAU	GUGUUCCAUCCUCCAAGAACU	Tradução
spe-miR477-3p	Sopen06g032390.1	3.0	15.792	1	20	1589	1608	AGUUCUUGUAGGGUGAGACA	UGUUACAGCCUACAAGAGCU	Clivagem
spe-miR477-3p	Sopen01g043320.2	3.0	19.311	1	20	699	717	AGUUCUUGUAGGGUGAGACA	UGUCUCACCCU-CAAGGGCU	Tradução
spe-miR477-3p	Sopen01g043320.1	3.0	21.698	1	20	699	717	AGUUCUUGUAGGGUGAGACA	UGUCUCACCCU-CAAGGGCU	Tradução
spe-miR477-5p	Sopen01g045760.1	3.0	21.223	1	20	115	134	UGUCUCUCCCUCAAGGGCUC	GAGUUAUUGGGGGAGAGGCA	Clivagem
spe-miR477a-3p	Sopen10g034960.1	3.0	18.746	1	22	521	542	GAAGCUCUAGCAGGGAGAGCCA	UGAUUCUCCUGUUGGAGCUUC	Clivagem
spe-miR477a-3p	Sopen06g035640.2	2.5	23.872	1	20	829	848	GAAGCUCUAGCAGGGAGAGC	GUUCUUCUUGCUGGAGCUUU	Clivagem
spe-miR477a-3p	Sopen06g035640.1	2.5	23.872	1	20	829	848	GAAGCUCUAGCAGGGAGAGC	GUUCUUCUUGCUGGAGCUUU	Clivagem
spe-miR477a-3p	Sopen11g030240.1	3.0	24.014	1	20	898	917	GAAGCUCUAGCAGGGAGAGC	GCUCUCCUGCUGGCGCUUU	Clivagem
spe-miR477a-3p	Sopen01g033470.1	3.0	24.998	1	21	156	176	GAAGCUCUAGCAGGGAGAGCC	GGCUGUUCUGCUAGAGCUUU	Clivagem
spe-miR477a-3p	Sopen02g001320.1	3.0	21.705	1	20	547	566	GAAGCUCUAGCAGGGAGAGC	GCUCUGCCAGUUAGAGCUUU	Clivagem

spe-miR477a-5p	Sopen01g032700.1	2.0	16.215	1	21	1654	1674	CCUCUCCCUCAAGGGCUUCUC	GGGAAGCCUUUGAGGGAGAGA	Clivagem
spe-miR477a-5p	Sopen03g030140.1	2.0	21.244	1	20	786	805	CCUCUCCCUCAAGGGCUUCU	GGAAGCCUUUGAGGGAGAGA	Clivagem
spe-miR477a-5p	Sopen02g027700.1	2.5	16.344	1	20	1245	1264	CCUCUCCCUCAAGGGCUUCU	AGAAGCUUUUGAGGGAGGGU	Clivagem
spe-miR477a-5p	Sopen05g011630.1	3.0	19.886	1	21	691	711	CCUCUCCCUCAAGGGCUUCUC	GAGAGGUACUUCAGGGAGAGG	Tradução
spe-miR477a-5p	Sopen02g029680.1	3.0	24.334	1	20	420	439	CCUCUCCCUCAAGGGCUUCU	AGAAGCUCUUGGUGGAGAGA	Clivagem
spe-miR477a-5p	Sopen11g029510.1	3.0	12.896	1	20	1265	1284	CCUCUCCCUCAAGGGCUUCU	AGAAGCCUUUGAAGGAGAAG	Clivagem
spe-miR477a-5p	Sopen11g020130.1	3.0	18.0	1	20	4350	4369	CCUCUCCCUCAAGGGCUUCU	GGUAGCCUUUGUGGGAGAGG	Tradução
spe-miR477a-5p	Sopen02g001990.1	3.0	18.07	1	20	3243	3262	CCUCUCCCUCAAGGGCUUCU	GGUAGCCUUUGUGGGAGAGG	Tradução
spe-miR477b-3p	Sopen05g022630.1	2.5	16.857	1	21	52	72	GAGGUCUUUCGAGUGAGAGUG	CACUUUCAUUCUAAAGACCUU	Tradução
spe-miR477b-3p	Sopen12g006900.1	3.0	13.147	1	22	56	77	GAGGUCUUUCGAGUGAGAGUGA	UCACUCUCAUUAUAGAUCUC	Tradução
spe-miR477b-3p	Sopen03g023210.1	2.0	20.222	1	20	2058	2077	GAGGUCUUUCGAGUGAGAGU	GCUCUCACUCAAGGACCUC	Tradução
spe-miR477b-3p	Sopen03g023210.2	2.0	20.222	1	20	2070	2089	GAGGUCUUUCGAGUGAGAGU	GCUCUCACUCAAGGACCUC	Tradução
spe-miR477b-3p	Sopen09g025420.1	3.0	19.79	1	21	710	730	GAGGUCUUUCGAGUGAGAGUG	CAUAAUUACUCGAAAGAUCUC	Clivagem
spe-miR477b-5p	Sopen03g030140.1	1.5	21.244	1	21	785	805	ACUCUCCCUCAAAGGCUUCUG	UGGAAGCCUUUGAGGGAGAGA	Clivagem
spe-miR477b-5p	Sopen02g027700.1	1.0	16.344	1	20	1245	1264	ACUCUCCCUCAAAGGCUUCU	AGAAGCUUUUGAGGGAGGGU	Clivagem
spe-miR477b-5p	Sopen01g032700.1	1.5	16.215	1	20	1655	1674	ACUCUCCCUCAAAGGCUUCU	GGAAGCCUUUGAGGGAGAGA	Clivagem
spe-miR477b-5p	Sopen00g009370.1	2.0	21.135	1	20	2639	2658	ACUCUCCCUCAAAGGCUUCU	GGAGGCCUUUGUGGGAGAGU	Tradução
spe-miR477b-5p	Sopen00g007260.1	2.0	20.419	1	20	2642	2661	ACUCUCCCUCAAAGGCUUCU	GGAGGCCUUUGUGGGAGAGU	Tradução
spe-miR477b-5p	Sopen11g012610.1	3.0	19.848	1	20	1197	1216	ACUCUCCCUCAAAGGCUUCU	CGAGCCUUUUGAGGGAGAGU	Clivagem
spe-miR477b-5p	Sopen02g032060.1	3.0	21.882	1	20	861	880	ACUCUCCCUCAAAGGCUUCU	AGAAGCUGUUGAUGGGGAGU	Clivagem
spe-miR477b-5p	Sopen03g040400.1	3.0	24.25	1	20	1169	1188	ACUCUCCCUCAAAGGCUUCU	AGAAGGCUUUGAAGGGGGGU	Clivagem
spe-miR477b-5p	Sopen00g007930.1	3.0	17.94	1	20	3495	3514	ACUCUCCCUCAAAGGCUUCU	GGUGGCCUUUGUGGGAGAGU	Tradução
spe-miR477b-5p	Sopen03g014010.1	3.0	19.874	1	21	1976	1996	ACUCUCCCUCAAAGGCUUCUG	UAGAAACCAUAGAGGGAGAGU	Clivagem
spe-miR479-3p	Sopen11g008200.1	0.0	24.74	1	21	380	400	UGAGCCGAACCAAUACACUC	GAGUGAUUUGGUUCGGCUCA	Clivagem
spe-miR479-3p	Sopen08g022810.1	1.5	20.798	1	20	1816	1835	UGAGCCGAACCAAUACACU	AGUGAUGUUGGUUUGGCUCG	Clivagem
spe-miR479-3p	Sopen01g048640.2	2.5	24.609	1	21	45	65	UGAGCCGAACCAAUACACUC	GAGUGAGACUGGUUCGGCUCG	Clivagem
spe-miR479-3p	Sopen11g016480.1	3.0	14.701	1	20	328	347	UGAGCCGAACCAAUACACU	GAUGAUGUUGGUUCGGUUCA	Clivagem
spe-miR479-3p	Sopen05g018470.1	3.0	18.986	1	20	52	71	UGAGCCGAACCAAUACACU	GGUGAUUUGCUUUGGCUUG	Tradução
spe-miR479-3p	Sopen05g018610.1	2.5	15.643	1	20	1996	2015	UGAGCCGAACCAAUACACU	AGUGAAUUUGGUUCGGUUCA	Clivagem
spe-miR479-3p	Sopen01g022310.1	2.5	15.657	1	20	1375	1394	UGAGCCGAACCAAUACACU	AGUGAUUUUGCUUCGGUUCA	Tradução
spe-miR479-3p	Sopen02g002250.1	3.0	22.525	1	20	496	515	UGAGCCGAACCAAUACACU	AGUGAUUUGUUGGGUUCA	Tradução
spe-miR479-3p	Sopen01g036680.1	3.0	20.61	1	20	1284	1303	UGAGCCGAACCAAUACACU	AGGGAUUAUUGGCGGGCUCA	Tradução
spe-miR479-3p	Sopen08g027270.1	3.0	15.022	1	20	1074	1093	UGAGCCGAACCAAUACACU	AAUGAUUAUUGGCGGGCUCA	Tradução
spe-miR479-5p	Sopen04g011320.1	3.0	17.026	1	20	665	684	CGUGAUUAUUGGUUCGGCUCA	UGAGUCGAACCGAUUAUAGG	Clivagem
spe-miR479-5p	Sopen03g021400.1	3.0	16.477	1	20	431	450	CGUGAUUAUUGGUUCGGCUCA	UGAGUCGAAACAAUCUCACG	Tradução

spe-miR482-1-3p	Sopen11g025550.1	1.0	16.122	1	22	595	616	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGCGGUGUAGGUAAGA	Clivagem
spe-miR482-1-3p	Sopen02g011670.1	1.5	13.778	1	22	529	550	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGUGGUGUAGGUAAGA	Clivagem
spe-miR482-1-3p	Sopen05g003910.1	1.5	21.975	1	22	526	547	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGCGGUUAGGUAAGA	Tradução
spe-miR482-1-3p	Sopen12g008600.1	2.0	24.453	1	22	526	547	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGCGGUUAGGUAAGA	Tradução
spe-miR482-1-3p	Sopen11g002430.1	2.0	21.433	1	22	526	547	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGCGGUUAGGUAAGA	Tradução
spe-miR482-1-3p	Sopen12g008600.2	2.0	24.453	1	22	178	199	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGCGGUUAGGUAAGA	Tradução
spe-miR482-1-3p	Sopen10g024900.1	2.0	17.631	1	22	493	514	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGCGGUGUUGGUAAGA	Clivagem
spe-miR482-1-3p	Sopen01g028960.1	2.5	21.144	1	22	838	859	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGUGGUGUUGGUAAGA	Clivagem
spe-miR482-1-3p	Sopen04g013450.1	2.0	14.288	1	22	2722	2743	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGCGGAUAGGCAAGA	Tradução
spe-miR482-1-3p	Sopen12g008030.1	2.5	22.845	1	22	421	442	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGUGGUGUUGGUAAGA	Clivagem
spe-miR482-1-3p	Sopen04g004410.1	2.0	23.195	1	22	454	475	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGCGGAUAGGCAAGA	Tradução
spe-miR482-1-3p	Sopen11g024570.1	2.5	21.829	1	22	427	448	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGCGGCGUGGGUAAGA	Tradução
spe-miR482-1-3p	Sopen04g018240.1	2.5	15.07	1	22	304	325	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGUGGUGUUGGUAAGA	Clivagem
spe-miR482-1-3p	Sopen10g024980.1	2.5	20.261	1	22	46	67	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGUGGUGUUGGUAAGA	Clivagem
spe-miR482-1-3p	Sopen11g028360.1	2.5	22.868	1	22	1666	1687	UCUUGCCUACACCGCCCAUGCC	GGAAUGGGCGGUGCAGGUAAGA	Tradução
spe-miR482-1-3p	Sopen11g028610.1	2.5	22.27	1	22	622	643	UCUUGCCUACACCGCCCAUGCC	GGAAUGGGCGGUGCAGGUAAGA	Tradução
spe-miR482-1-3p	Sopen11g028330.1	3.0	23.952	1	22	622	643	UCUUGCCUACACCGCCCAUGCC	GGAAUGGGCGGUGCAGGUAAGA	Tradução
spe-miR482-1-3p	Sopen11g029090.1	3.0	21.217	1	22	622	643	UCUUGCCUACACCGCCCAUGCC	GGAAUGGGCGGCGUGGGUAAGA	Tradução
spe-miR482-1-3p	Sopen08g001480.1	3.0	21.814	1	22	589	610	UCUUGCCUACACCGCCCAUGCC	GGCAUGGGUGGUUCAGGUAAGA	Tradução
spe-miR482-1-3p	Sopen10g022740.1	3.0	22.182	1	22	529	550	UCUUGCCUACACCGCCCAUGCC	GGUAUGGGAGGUUAGGUAAGA	Tradução
spe-miR482-1-3p	Sopen11g027070.1	3.0	20.2	1	22	265	286	UCUUGCCUACACCGCCCAUGCC	GGAAUGGGCGGUGCAGGUAAGA	Tradução
spe-miR482-1-3p	Sopen04g004380.1	3.0	24.192	1	22	586	607	UCUUGCCUACACCGCCCAUGCC	GGAAUGGGGGGUUAGGCAAGA	Tradução
spe-miR482-1-3p	Sopen11g024590.1	3.0	23.009	1	20	1938	1957	UCUUGCCUACACCGCCCAUG	AAUGGGCGGCGUGGGUAAGA	Tradução
spe-miR482-1-5p	Sopen09g031740.1	3.0	19.924	1	20	2091	2110	CGUGAGUGGUGGGGAAAGAU	AUCUUUCUACACACUUGCA	Clivagem
spe-miR482-1-5p	Sopen09g010850.1	3.0	5.991	1	20	1143	1162	CGUGAGUGGUGGGGAAAGAU	UUCUUUCCCAACACUUAUG	Tradução
spe-miR482-2-3p	Sopen07g025300.1	2.0	24.294	1	22	547	568	UCUUGCCAAUACCGCCCAUUGC	GGUAUGGGUGGUUUGGUAAGA	Clivagem
spe-miR482-2-3p	Sopen10g024900.1	2.0	17.631	1	22	493	514	UCUUGCCAAUACCGCCCAUUGC	GGUAUGGGCGGUGUUGGUAAGA	Clivagem
spe-miR482-2-3p	Sopen01g028960.1	2.5	21.144	1	22	838	859	UCUUGCCAAUACCGCCCAUUGC	GGUAUGGGUGGUGUUGGUAAGA	Clivagem
spe-miR482-2-3p	Sopen12g004450.1	2.5	20.061	1	22	514	535	UCUUGCCAAUACCGCCCAUUGC	GGGAUGGGUGGCAUUGGUAAGA	Tradução
spe-miR482-2-3p	Sopen12g008030.1	2.5	22.845	1	22	421	442	UCUUGCCAAUACCGCCCAUUGC	GGUAUGGGUGGUGUUGGUAAGA	Clivagem
spe-miR482-2-3p	Sopen04g018240.1	2.5	15.07	1	22	304	325	UCUUGCCAAUACCGCCCAUUGC	GGUAUGGGUGGUGUUGGUAAGA	Clivagem
spe-miR482-2-3p	Sopen10g024980.1	2.5	20.261	1	22	46	67	UCUUGCCAAUACCGCCCAUUGC	GGUAUGGGUGGUGUUGGUAAGA	Clivagem
spe-miR482-2-3p	Sopen05g003910.1	2.5	21.975	1	22	526	547	UCUUGCCAAUACCGCCCAUUGC	GGCAUGGGCGGUUAGGUAAGA	Clivagem
spe-miR482-2-3p	Sopen09g034030.1	3.0	13.829	1	22	700	721	UCUUGCCAAUACCGCCCAUUGC	GGAAUGGGCGGUGGUGGAAGA	Tradução
spe-miR482-2-3p	Sopen12g008600.1	2.5	24.453	1	22	526	547	UCUUGCCAAUACCGCCCAUUGC	GGUAUGGGCGGUUAGGUAAGA	Clivagem

spe-miR482-2-3p	Sopen11g002430.1	2.5	21.433	1	22	526	547	UCUUGCCAAUACCGCCCAUUCC	GGUAUGGGCGGUUAGGUAAGA	Clivagem
spe-miR482-2-3p	Sopen12g008600.2	2.5	24.453	1	22	178	199	UCUUGCCAAUACCGCCCAUUCC	GGUAUGGGCGGUUAGGUAAGA	Clivagem
spe-miR482-2-3p	Sopen11g028360.1	3.0	22.868	1	22	1666	1687	UCUUGCCAAUACCGCCCAUUCC	GGAAUGGGCGGUGCAGGUAAGA	Tradução
spe-miR482-2-3p	Sopen11g028610.1	3.0	22.27	1	22	622	643	UCUUGCCAAUACCGCCCAUUCC	GGAAUGGGCGGUGCAGGUAAGA	Tradução
spe-miR482-2-3p	Sopen11g028330.1	3.0	23.952	1	22	622	643	UCUUGCCAAUACCGCCCAUUCC	GGAAUGGGCGGUGCGGGUAAGA	Tradução
spe-miR482-2-3p	Sopen11g029090.1	3.0	21.217	1	22	622	643	UCUUGCCAAUACCGCCCAUUCC	GGAAUGGGCGGUGGGUAAGA	Tradução
spe-miR482-2-3p	Sopen01g009830.1	3.0	13.176	1	22	76	97	UCUUGCCAAUACCGCCCAUUCC	GGGAUGGGAGGCAUUGGUAAGA	Tradução
spe-miR482-2-3p	Sopen06g023660.1	3.0	19.985	1	22	64	85	UCUUGCCAAUACCGCCCAUUCC	GGGAUCGGUGGAAUUGGCAAGA	Tradução
spe-miR482-2-3p	Sopen12g002010.1	3.0	16.934	1	22	664	685	UCUUGCCAAUACCGCCCAUUCC	GGAAUGGGUGGCAUAGGUAAGA	Tradução
spe-miR482-2-3p	Sopen11g002420.1	3.0	24.484	1	22	511	532	UCUUGCCAAUACCGCCCAUUCC	GGUAUGGGUGGUAUCGGUAAGA	Clivagem
spe-miR482-2-3p	Sopen11g027070.1	3.0	20.2	1	22	265	286	UCUUGCCAAUACCGCCCAUUCC	GGAAUGGGCGGUGCGGGUAAGA	Tradução
spe-miR482-2-3p	Sopen11g025550.1	3.0	16.122	1	22	595	616	UCUUGCCAAUACCGCCCAUUCC	GGUAUGGGCGGUGUAGGUAAGA	Clivagem
spe-miR482-2-3p	Sopen01g009410.1	3.0	16.427	1	21	23	43	UCUUGCCAAUACCGCCCAUUC	GGGUGGUUGGUAUUGGUAAGA	Clivagem
spe-miR482-2-3p	Sopen04g004380.1	3.0	24.192	1	22	586	607	UCUUGCCAAUACCGCCCAUUCC	GGAAUGGGGGUUUAGGCAAGA	Tradução
spe-miR482-2-3p	Sopen11g024590.1	3.0	23.009	1	22	1936	1957	UCUUGCCAAUACCGCCCAUUCC	GCAAUGGGCGGCGUGGGUAAGA	Tradução
spe-miR482-2-3p	Sopen00g013510.1	3.0	21.103	1	20	718	737	UCUUGCCAAUACCGCCCAUU	AGGGGGCUGUAUUGGCGAGA	Clivagem
spe-miR482-2-3p	Sopen01g050690.1	3.0	19.975	1	19	3814	3833	UCUUGCCAAUA-CCGCCCAU	AUAGGCGGCUAUUGGCAAGA	Clivagem
spe-miR482-2-5p	Sopen11g027080.1	3.0	16.592	1	21	843	863	GGAGUGGGUGGUAUGGUAAGA	UUUUAGCAUACUGCCCACUUC	Clivagem
spe-miR482-2-5p	Sopen03g003690.1	2.5	14.447	1	20	235	254	GGAGUGGGUGGUAUGGUAAG	AUUAGCAUGCCACCCACUCC	Clivagem
spe-miR482a-3p	Sopen11g003950.1	1.0	10.979	1	20	896	915	UUUCCAAUCCACCCAUUCC	GGAGUGGGUGGAAUUGGAGA	Clivagem
spe-miR482a-3p	Sopen06g021930.1	2.5	22.729	1	22	593	614	UUUCCAAUCCACCCAUUCCUA	UAGGAAUGGGGGAAUAGGAAA	Clivagem
spe-miR482a-3p	Sopen12g029080.1	3.0	22.22	1	22	324	345	UUUCCAAUCCACCCAUUCCUA	UGGGAAUGGGAGGAAUUUGAAG	Clivagem
spe-miR482a-3p	Sopen01g036600.2	3.0	7.761	1	20	540	559	UUUCCAAUCCACCCAUUCC	AGAAUGGGUGGAAUUGGGGU	Clivagem
spe-miR482a-3p	Sopen01g036600.1	3.0	7.761	1	20	540	559	UUUCCAAUCCACCCAUUCC	AGAAUGGGUGGAAUUGGGGU	Clivagem
spe-miR482a-3p	Sopen01g034260.1	3.0	19.442	1	21	474	494	UUUCCAAUCCACCCAUUCCU	AGGUAUGGGUGGAAUUGGCAA	Clivagem
spe-miR482a-3p	Sopen01g045330.1	2.0	14.486	1	20	706	725	UUUCCAAUCCACCCAUUCC	GGUAUUGGUGGAAUUGGAAA	Clivagem
spe-miR482a-3p	Sopen11g006130.1	3.0	18.911	1	21	684	704	UUUCCAAUCCACCCAUUCCU	GGGAAUAGGUGGAGUUGGUAA	Clivagem
spe-miR482a-3p	Sopen06g023660.1	3.0	20.487	1	21	63	83	UUUCCAAUCCACCCAUUCCU	GGGGAUCGGUGGAAUUGGCAA	Clivagem
spe-miR482a-3p	Sopen02g036460.1	3.0	6.268	1	21	758	778	UUUCCAAUCCACCCAUUCCU	AGAAGUCGGUGGAAUUGGAAG	Clivagem
spe-miR482a-3p	Sopen07g020080.1	3.0	12.493	1	21	1194	1214	UUUCCAAUCCACCCAUUCCU	AGGGGUGGUUGGAAUUGGAAA	Clivagem
spe-miR482a-3p	Sopen09g033300.1	3.0	16.926	1	21	1473	1493	UUUCCAAUCCACCCAUUCCU	AGGAAUCGGUGGCAUUGGAGG	Tradução
spe-miR482a-3p	Sopen12g004450.1	3.0	20.093	1	22	512	533	UUUCCAAUCCACCCAUUCCUA	UUGGGAUGGGUGGCAUUGGUAA	Tradução
spe-miR482a-3p	Sopen06g004210.1	2.5	21.869	1	22	1661	1682	UUUCCAAUCCACCCAUUCCUA	UUGGAGUUGGUGGAAUUGGAAA	Clivagem
spe-miR482a-3p	Sopen06g004220.1	2.5	20.922	1	22	1634	1655	UUUCCAAUCCACCCAUUCCUA	UUGGAGUUGGUGGAAUUGGAAA	Clivagem
spe-miR482a-3p	Sopen05g005560.1	3.0	17.541	1	22	164	185	UUUCCAAUCCACCCAUUCCUA	UUGGAAUGGCUGGAAUAGGGAA	Clivagem

spe-miR482a-3p	Sopen02g006820.1	3.0	17.495	1	22	86	107	UUUCCAAUCCACCCAUUCCUA	UUGGGAUGGGGGAAGUGGAAA	Clivagem
spe-miR482a-3p	Sopen10g002960.1	3.0	17.785	1	21	1271	1292	UUUCCAA-UUCCACCCAUUCCU	AGAAAUUGGUGGAAGUUGGAAA	Clivagem
spe-miR482a-3p	Sopen02g035480.1	3.0	19.563	1	21	1259	1280	UUUCCAA-UUCCACCCAUUCCU	AGAAAUUGGUGGAAGUUGGAAA	Clivagem
spe-miR482a-3p	Sopen04g001560.1	3.0	16.889	1	20	541	560	UUUCCAAUCCACCCAUUCC	GGUAUGGGUGGAGUUGGUAA	Clivagem
spe-miR482a-3p	Sopen01g034940.1	2.5	13.126	1	20	589	608	UUUCCAAUCCACCCAUUCC	GGAAUUGGAGGAAUUGGGAA	Clivagem
spe-miR482a-3p	Sopen03g035290.1	2.5	19.987	1	20	820	839	UUUCCAAUCCACCCAUUCC	GGGAUGUGUGGACUUGGAAA	Clivagem
spe-miR482a-3p	Sopen03g022900.1	3.0	16.198	1	21	3284	3304	UUUCCAAUCCACCCAUUCCU	AGCAAUGUUUGGAAUUGGAAA	Clivagem
spe-miR482a-3p	Sopen03g022900.2	3.0	16.198	1	21	3281	3301	UUUCCAAUCCACCCAUUCCU	AGCAAUGUUUGGAAUUGGAAA	Clivagem
spe-miR482a-3p	Sopen01g031770.1	3.0	18.122	1	21	561	581	UUUCCAAUCCACCCAUUCCU	AGGUAUGGCUGGACUUGGAAA	Clivagem
spe-miR482a-3p	Sopen04g002380.1	3.0	23.315	1	22	671	692	UUUCCAAUCCACCCAUUCCUA	UUGGAAUGAGCGGAGUUGGGAA	Clivagem
spe-miR482a-3p	Sopen03g002750.1	3.0	23.689	1	22	2888	2909	UUUCCAAUCCACCCAUUCCUA	UUGGUAUGGGAGGGAUUGGGAA	Clivagem
spe-miR482a-3p	Sopen03g002750.2	3.0	23.689	1	22	2849	2870	UUUCCAAUCCACCCAUUCCUA	UUGGUAUGGGAGGGAUUGGGAA	Clivagem
spe-miR482a-3p	Sopen03g001140.1	3.0	13.413	1	22	1463	1484	UUUCCAAUCCACCCAUUCCUA	UUGGGAGGGGUGGAUUUGGAGA	Clivagem
spe-miR482a-3p	Sopen01g045290.1	3.0	15.887	1	20	688	707	UUUCCAAUCCACCCAUUCC	GGGAUGAGCGGAUUGGGAA	Clivagem
spe-miR482a-3p	Sopen07g026010.1	3.0	11.311	1	20	779	798	UUUCCAAUCCACCCAUUCC	GGAAUGGGUUUAGUUGGAAG	Tradução
spe-miR482a-3p	Sopen04g001570.1	3.0	17.622	1	20	358	377	UUUCCAAUCCACCCAUUCC	GGUAUGGGUGGUGUUGGGAA	Tradução
spe-miR482a-5p	Sopen07g009150.1	2.5	20.485	1	20	1694	1713	GGAAUUGGUGAGUUGGAAAG	CUUCCAACUGACCAAUUUG	Tradução
spe-miR482a-5p	Sopen12g006590.1	3.0	14.016	1	20	126	145	GGAAUUGGUGAGUUGGAAAG	UUUCCAACUCAUAAGUUC	Clivagem
spe-miR482a-5p	Sopen05g001780.1	3.0	22.732	1	20	2236	2255	GGAAUUGGUGAGUUGGAAAG	CCUCCAGCUCACCAAUUGC	Clivagem
spe-miR482a-5p	Sopen11g004340.2	3.0	15.354	1	20	949	968	GGAAUUGGUGAGUUGGAAAG	CCUUUCAACUUAUCAAUUCU	Clivagem
spe-miR482a-5p	Sopen11g004340.3	3.0	15.354	1	20	628	647	GGAAUUGGUGAGUUGGAAAG	CCUUUCAACUUAUCAAUUCU	Clivagem
spe-miR482b-3p	Sopen12g004510.1	2.0	17.091	1	22	369	390	UUACCGAUUCCCCCAUUCCAA	UAGGGAUGGGGGGAUUCGGGAA	Clivagem
spe-miR482b-3p	Sopen12g004510.1	2.0	17.091	1	22	1317	1338	UUACCGAUUCCCCCAUUCCAA	UAGGGAUGGGGGGAUUCGGGAA	Clivagem
spe-miR482b-3p	Sopen12g004510.1	2.0	17.091	1	22	2265	2286	UUACCGAUUCCCCCAUUCCAA	UAGGGAUGGGGGGAUUCGGGAA	Clivagem
spe-miR482b-3p	Sopen11g027730.1	2.5	22.802	1	22	281	302	UUACCGAUUCCCCCAUUCCAA	UUGGUAUGGGGGGAUUGGUAA	Tradução
spe-miR482b-3p	Sopen01g004310.1	1.5	15.34	1	20	676	695	UUACCGAUUCCCCCAUUCC	GGCAUGGGGGGAUUGGUAA	Clivagem
spe-miR482b-3p	Sopen12g004450.1	3.0	20.093	1	22	512	533	UUACCGAUUCCCCCAUUCCAA	UUGGGAUGGGUGGCAUUGGUAA	Tradução
spe-miR482b-3p	Sopen02g019130.1	3.0	17.792	1	22	1571	1592	UUACCGAUUCCCCCAUUCCAA	UUGGAGUGGGAGGAUUUGGUAA	Clivagem
spe-miR482b-3p	Sopen11g005840.1	2.0	21.745	1	20	676	695	UUACCGAUUCCCCCAUUCC	GGAAUGGUGGGAGUUGGUAA	Clivagem
spe-miR482b-3p	Sopen11g005850.1	3.0	22.174	1	21	714	734	UUACCGAUUCCCCCAUUCCA	UGGAAUUGGGGGAGUCGGCAA	Clivagem
spe-miR482b-3p	Sopen11g002420.1	3.0	23.39	1	22	509	530	UUACCGAUUCCCCCAUUCCAA	UUGGUAUGGGUGGUUUCGGUAA	Tradução
spe-miR482b-3p	Sopen06g021930.1	3.0	22.729	1	22	593	614	UUACCGAUUCCCCCAUUCCAA	UAGGAAUGGGGGGAUAGGAAA	Clivagem
spe-miR482b-3p	Sopen04g001560.1	3.0	16.889	1	21	540	560	UUACCGAUUCCCCCAUUCCA	UGGUAUGGGUGGAGUUGGUAA	Clivagem
spe-miR482b-3p	Sopen05g002560.1	3.0	24.879	1	21	648	668	UUACCGAUUCCCCCAUUCCA	UGGAAUAGGAGGAGUUGGUAA	Clivagem
spe-miR482b-3p	Sopen05g003710.1	2.5	23.421	1	20	679	698	UUACCGAUUCCCCCAUUCC	GGAAUAGGCGGAGUCGGUAA	Clivagem

spe-miR482b-3p	Sopen05g003710.2	2.5	23.421	1	20	391	410	UUACCGAUUCCCCCAUUCC	GGAAUAGGCGGAGUCGGUAA	Clivagem
spe-miR482b-3p	Sopen11g006130.1	3.0	18.911	1	20	685	704	UUACCGAUUCCCCCAUUCC	GGAAUAGGUGGAGUUGGUAA	Clivagem
spe-miR482b-3p	Sopen01g009830.1	3.0	12.991	1	20	76	95	UUACCGAUUCCCCCAUUCC	GGGAUGGGGAGGCAUUGGUAA	Tradução
spe-miR482b-5p	Sopen03g003690.1	2.0	14.447	1	20	235	254	GGAGUGGGUGGCAUGGUAAG	AUUAGCAUGCCACCCACUCC	Clivagem
spe-miR482b-5p	Sopen03g017220.1	3.0	17.879	1	20	1458	1477	GGAGUGGGUGGCAUGGUAAG	GUUACUAUGUCAUCUACUCC	Clivagem
spe-miR482b-5p	Sopen05g002610.1	3.0	14.265	1	21	1140	1160	GGAGUGGGUGGCAUGGUAAGA	UCUUAACAUUGCAACCAUUCC	Clivagem
spe-miR482d-3p	Sopen06g001380.1	1.0	15.833	1	22	261	282	UUUCCUAAUCCACCCAUGCCAA	UUGGCAUUGGUGGAAUAGGAAA	Clivagem
spe-miR482d-3p	Sopen02g024130.1	1.5	20.643	1	21	309	329	UUUCCUAAUCCACCCAUGCCAA	UGGUAGGGGUGGAAUAGGAAA	Clivagem
spe-miR482d-3p	Sopen02g010920.1	2.0	15.057	1	21	702	722	UUUCCUAAUCCACCCAUGCCAA	UGGUUAGGGUGGUUAGGGGAA	Tradução
spe-miR482d-3p	Sopen07g001870.1	3.0	23.697	1	22	539	560	UUUCCUAAUCCACCCAUGCCAA	UUGGUUAGGGUGGUUAGGGCAA	Tradução
spe-miR482d-3p	Sopen05g005560.1	2.5	17.541	1	22	164	185	UUUCCUAAUCCACCCAUGCCAA	UUGGAAUGGCUGGAAUAGGGGAA	Clivagem
spe-miR482d-3p	Sopen09g025780.1	2.5	15.526	1	22	332	353	UUUCCUAAUCCACCCAUGCCAA	UUGGUUAGGGGGGACUAGGAAA	Clivagem
spe-miR482d-3p	Sopen01g044060.1	2.5	16.906	1	21	615	635	UUUCCUAAUCCACCCAUGCCAA	UGGCAUUGGUGGAAUAGGCAA	Clivagem
spe-miR482d-3p	Sopen02g011950.1	3.0	24.921	1	21	480	500	UUUCCUAAUCCACCCAUGCCAA	UGGCAUGGGUGGGUGGGUAA	Clivagem
spe-miR482d-3p	Sopen01g047850.1	2.5	19.652	1	21	540	560	UUUCCUAAUCCACCCAUGCCAA	UGGCAUGGGUGGUUAGGGAGG	Tradução
spe-miR482d-3p	Sopen02g024150.1	2.0	16.641	1	20	328	347	UUUCCUAAUCCACCCAUGCC	GGUAGGGGUGGGAUAGGAAA	Clivagem
spe-miR482d-3p	Sopen04g004250.1	2.5	17.205	1	21	582	602	UUUCCUAAUCCACCCAUGCCAA	UGGCAUGGGCGGAUAGGGGAA	Clivagem
spe-miR482d-3p	Sopen01g045330.1	3.0	14.486	1	21	705	725	UUUCCUAAUCCACCCAUGCCAA	UGGUUAGGUGGAAUUGGAAA	Clivagem
spe-miR482d-3p	Sopen09g029830.1	3.0	17.712	1	21	339	359	UUUCCUAAUCCACCCAUGCCAA	UGAUUAGGGUGGAAUUGGGAGG	Clivagem
spe-miR482d-3p	Sopen06g021930.1	2.0	22.729	1	22	593	614	UUUCCUAAUCCACCCAUGCCAA	UAGGAAUGGGGGGAUAGGAAA	Clivagem
spe-miR482d-3p	Sopen07g017170.1	3.0	20.584	1	22	1385	1406	UUUCCUAAUCCACCCAUGCCAA	UGGGCAUGGGAGGGAUAGGUAA	Clivagem
spe-miR482d-3p	Sopen11g008710.1	2.5	22.046	1	20	586	605	UUUCCUAAUCCACCCAUGCC	GGGAUGGGUGGCAUAGGGAA	Tradução
spe-miR482d-3p	Sopen08g022900.1	3.0	18.917	1	20	463	482	UUUCCUAAUCCACCCAUGCC	GGCAUGGGUGGCAUCGGGAA	Tradução
spe-miR482d-3p	Sopen11g008730.1	2.5	9.537	1	20	269	288	UUUCCUAAUCCACCCAUGCC	GGUUAUGGAAGGAUAGGAAA	Clivagem
spe-miR482d-3p	Sopen11g004350.1	3.0	16.373	1	20	551	570	UUUCCUAAUCCACCCAUGCC	GGCAUAGGUGGACUGGGAGA	Clivagem
spe-miR482d-5p	Sopen09g023500.1	2.5	12.257	1	21	1052	1073	GGAGUGG-GUGGGAUGGAAAAA	UUUUUCCAUCCAUUCCACUCC	Clivagem
spe-miR482d-5p	Sopen09g023440.1	2.5	19.495	1	21	971	992	GGAGUGG-GUGGGAUGGAAAAA	UUUUUCCAUCCAUUCCACUCC	Clivagem
spe-miR482d-5p	Sopen04g028010.1	3.0	22.231	1	21	857	877	GGAGUGGGUGGGAUGGAAAAA	UUUUUUCAACUCAUCCACUUC	Clivagem
spe-miR482d-5p	Sopen07g005700.1	3.0	15.766	1	21	36	56	GGAGUGGGUGGGAUGGAAAAA	UCUUUCCGUUCCAUUCACUCC	Clivagem
spe-miR482d-5p	Sopen11g028120.1	2.5	8.537	1	20	49	68	GGAGUGGGUGGGAUGGAAAAA	UUCUCCGUCCUACUCACUCC	Clivagem
spe-miR482d-5p	Sopen06g023870.1	3.0	2.279	1	20	108	127	GGAGUGGGUGGGAUGGAAAAA	UUUUUCAUCUCACUCAUUUU	Clivagem
spe-miR482d-5p	Sopen10g031760.1	3.0	13.06	1	20	379	398	GGAGUGGGUGGGAUGGAAAAA	UUUUUCGUCUUAGCCACUCC	Clivagem
spe-miR482d-5p	Sopen05g034710.1	3.0	11.138	1	20	151	170	GGAGUGGGUGGGAUGGAAAAA	UUUAUCCGUUCCGCCACUUC	Clivagem
spe-miR482d-5p	Sopen04g009670.1	2.5	15.121	1	20	586	605	GGAGUGGGUGGGAUGGAAAAA	UUUUCAAUCCCAGCCACUUC	Clivagem
spe-miR482e-3p	Sopen08g024640.1	1.5	24.619	1	22	550	571	UCUUUCCUACUCCUCCAUACC	GGUAUGGGGGGACUAGGAAAGA	Tradução

spe-miR482e-3p	Sopen09g025780.1	1.5	15.232	1	22	334	355	UCUUUCCUACUCCUCCCAUACC	GGUAUGGGGGGACUAGGAAAGA	Tradução
spe-miR482e-3p	Sopen11g008730.1	2.0	9.803	1	22	269	290	UCUUUCCUACUCCUCCCAUACC	GGUAUGGAAGGAUAGGAAAGA	Tradução
spe-miR482e-3p	Sopen03g002750.1	3.0	23.802	1	22	2890	2911	UCUUUCCUACUCCUCCCAUACC	GGUAUGGGAGGGAUUGGGAAGA	Tradução
spe-miR482e-3p	Sopen03g002750.2	3.0	23.802	1	22	2851	2872	UCUUUCCUACUCCUCCCAUACC	GGUAUGGGAGGGAUUGGGAAGA	Tradução
spe-miR482e-3p	Sopen04g034180.1	2.0	22.657	1	22	634	655	UCUUUCCUACUCCUCCCAUACC	GCUGUGGUAGGAGUAGGAGAGA	Clivagem
spe-miR482e-3p	Sopen11g006430.1	3.0	20.15	1	22	1091	1112	UCUUUCCUACUCCUCCCAUACC	GUUGUGGGAUGAGUAGGCAAGA	Clivagem
spe-miR482e-3p	Sopen06g032760.1	3.0	15.571	1	22	506	527	UCUUUCCUACUCCUCCCAUACC	GCUAUGAGAGGAGUAGAGAAGA	Clivagem
spe-miR482e-3p	Sopen11g009370.1	3.0	18.218	1	22	1561	1582	UCUUUCCUACUCCUCCCAUACC	GAUAUGCGGAGAGUGGGAAAGA	Clivagem
spe-miR482e-3p	Sopen11g009930.1	3.0	16.101	1	20	257	276	UCUUUCCUACUCCUCCCAUA	UAUGGGGGCAAUGGGAAAGA	Tradução
spe-miR482e-3p	Sopen02g015200.2	3.0	16.398	1	20	173	192	UCUUUCCUACUCCUCCCAUA	UAUGGGGGCAAUGGGAAAGA	Tradução
spe-miR482e-3p	Sopen05g015630.1	3.0	16.101	1	20	257	276	UCUUUCCUACUCCUCCCAUA	UAUGGGGGCAAUGGGAAAGA	Tradução
spe-miR482e-3p	Sopen06g033740.1	3.0	16.347	1	20	263	282	UCUUUCCUACUCCUCCCAUA	UAUGGGGGCAAUGGGAAAGA	Tradução
spe-miR482e-3p	Sopen08g005240.1	3.0	15.086	1	20	278	297	UCUUUCCUACUCCUCCCAUA	UAUGGGGGCAAUGGGAAAGA	Tradução
spe-miR482e-3p	Sopen04g005070.1	3.0	18.725	1	20	283	302	UCUUUCCUACUCCUCCCAUA	UAUGCAAGGAGAAGGAAAGA	Tradução
spe-miR482e-5p	Sopen10g028800.1	3.0	7.369	1	21	145	165	UGUGGGUGGGGUGGAAAGAUU	AAUCUAUCCAUCCACUCACU	Clivagem
spe-miR482e-5p	Sopen08g003220.1	3.0	14.165	1	21	3438	3458	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen09g009630.1	3.0	14.165	1	21	2328	2348	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen06g016060.1	3.0	12.687	1	21	2811	2831	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen01g012540.1	3.0	14.165	1	21	2328	2348	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen02g026060.1	3.0	14.165	1	21	2328	2348	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen03g027510.1	3.0	14.165	1	21	2328	2348	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen07g021230.1	3.0	14.165	1	21	2328	2348	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen01g033880.1	3.0	14.165	1	21	2328	2348	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen04g023510.1	3.0	14.165	1	21	2328	2348	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen06g015780.1	3.0	15.331	1	21	1545	1565	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen01g005660.1	3.0	14.536	1	21	1587	1607	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen01g047020.1	3.0	15.37	1	21	1581	1601	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen04g023780.1	3.0	10.423	1	21	1533	1553	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen08g017370.1	3.0	16.908	1	21	888	908	UGUGGGUGGGGUGGAAAGAUU	AAUCUUUCCACCGAGCUCACA	Tradução
spe-miR482e-5p	Sopen01g028490.1	3.0	21.474	1	20	2190	2209	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g028490.1	3.0	21.474	1	20	3990	4009	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen11g014040.1	3.0	21.474	1	20	4260	4279	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen07g007280.1	3.0	21.474	1	20	1506	1525	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen10g006610.1	3.0	21.474	1	20	1647	1666	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen08g005070.1	3.0	21.474	1	20	4035	4054	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução

spe-miR482e-5p	Sopen01g017650.1	3.0	21.474	1	20	3867	3886	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen07g001870.1	3.0	21.474	1	20	2487	2506	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen07g026650.1	3.0	21.474	1	20	2316	2335	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen07g031910.2	3.0	21.474	1	20	2511	2530	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen07g031910.1	3.0	21.474	1	20	2505	2524	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g048190.1	3.0	21.474	1	20	1413	1432	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g002610.1	3.0	21.474	1	20	1242	1261	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen10g003070.1	3.0	21.474	1	20	3138	3157	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g024810.1	3.0	21.474	1	20	3090	3109	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen05g027170.1	3.0	21.474	1	20	3015	3034	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g048190.2	3.0	21.474	1	20	1413	1432	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen04g006100.1	3.0	21.474	1	20	2883	2902	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen02g028780.1	3.0	21.474	1	20	1077	1096	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen12g020050.1	3.0	21.474	1	20	2523	2542	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen04g029550.1	3.0	21.474	1	20	1722	1741	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen05g008990.1	3.0	21.474	1	20	2220	2239	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g014330.1	3.0	21.474	1	20	2118	2137	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g014330.2	3.0	21.474	1	20	2049	2068	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen12g017710.1	3.0	21.474	1	20	2007	2026	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g052250.1	3.0	21.474	1	20	1962	1981	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen11g010150.1	3.0	21.474	1	20	1944	1963	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen02g026390.1	3.0	21.474	1	20	1932	1951	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen05g028860.1	3.0	21.474	1	20	1920	1939	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen02g033580.1	3.0	21.474	1	20	1917	1936	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen03g017330.1	3.0	21.474	1	20	1830	1849	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen10g022760.1	3.0	21.474	1	20	1818	1837	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g050140.1	3.0	21.474	1	20	1782	1801	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen05g011600.1	3.0	21.474	1	20	1770	1789	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen12g027700.1	3.0	21.474	1	20	1752	1771	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen09g016540.1	3.0	21.474	1	20	1623	1642	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen07g008260.1	3.0	21.474	1	20	1659	1678	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen02g030640.1	3.0	21.474	1	20	1419	1438	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen03g005470.1	3.0	21.474	1	20	1086	1105	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen06g023370.1	3.0	21.474	1	20	1548	1567	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen07g003510.1	3.0	21.474	1	20	1527	1546	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução

spe-miR482e-5p	Sopen02g030640.2	3.0	21.474	1	20	1353	1372	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g012550.1	3.0	21.474	1	20	1491	1510	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen06g011330.1	3.0	21.474	1	20	1485	1504	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen04g010190.1	3.0	21.474	1	20	1482	1501	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen06g033970.1	3.0	21.474	1	20	1464	1483	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen06g002540.1	3.0	21.474	1	20	1422	1441	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen11g021090.1	3.0	21.474	1	20	1368	1387	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen05g015560.1	3.0	21.474	1	20	1341	1360	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen12g021970.2	3.0	21.474	1	20	1311	1330	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen10g007530.1	3.0	21.474	1	20	1311	1330	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g006500.1	3.0	21.474	1	20	1275	1294	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen09g012100.1	3.0	21.474	1	20	1248	1267	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen12g021970.1	3.0	21.474	1	20	1230	1249	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g021970.1	3.0	21.474	1	20	1218	1237	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen05g024960.1	3.0	21.474	1	20	1209	1228	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen08g012760.1	3.0	21.474	1	20	1206	1225	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g024460.1	3.0	21.474	1	20	1203	1222	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen03g033680.1	3.0	21.474	1	20	1185	1204	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen06g001720.1	3.0	21.474	1	20	1170	1189	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen05g001790.1	3.0	21.474	1	20	1170	1189	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g022950.1	3.0	21.474	1	20	1164	1183	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen03g006630.1	3.0	21.474	1	20	1158	1177	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g012070.1	3.0	21.474	1	20	1152	1171	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g030270.1	3.0	21.474	1	20	1149	1168	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen04g019120.1	3.0	21.474	1	20	1146	1165	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen04g021450.1	3.0	21.474	1	20	1137	1156	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g015290.1	3.0	21.474	1	20	1128	1147	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen12g006820.1	3.0	21.474	1	20	1122	1141	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen03g017530.1	3.0	21.474	1	20	1119	1138	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen10g018760.1	3.0	21.474	1	20	1119	1138	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen10g024300.1	3.0	21.474	1	20	1116	1135	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen04g019480.1	3.0	21.474	1	20	1110	1129	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen10g020160.1	3.0	21.474	1	20	1104	1123	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen06g009850.2	3.0	21.474	1	20	1095	1114	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen10g034320.1	3.0	21.474	1	20	1083	1102	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução

spe-miR482e-5p	Sopen09g002520.1	3.0	21.474	1	20	1074	1093	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen04g033850.1	3.0	21.474	1	20	1068	1087	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen09g026760.2	3.0	21.474	1	20	1062	1081	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g010540.1	3.0	21.474	1	20	1056	1075	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g010200.1	3.0	21.474	1	20	1053	1072	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen09g026760.1	3.0	21.474	1	20	1053	1072	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen09g035060.1	3.0	21.474	1	20	1044	1063	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g047600.1	3.0	21.474	1	20	1041	1060	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen12g032680.1	3.0	21.474	1	20	1038	1057	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g035280.1	3.0	21.474	1	20	1035	1054	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen08g015400.1	3.0	21.474	1	20	1032	1051	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen05g011670.1	3.0	21.474	1	20	1032	1051	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g027810.1	3.0	21.474	1	20	1029	1048	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen09g020670.1	3.0	21.474	1	20	1029	1048	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen11g014230.1	3.0	21.474	1	20	1026	1045	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen08g015780.1	3.0	21.474	1	20	1026	1045	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen09g013750.1	3.0	21.474	1	20	1023	1042	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen09g029050.1	3.0	21.474	1	20	1020	1039	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen03g006330.1	3.0	21.474	1	20	1020	1039	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen02g034530.1	3.0	21.474	1	20	1020	1039	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen02g024500.2	3.0	21.474	1	20	1017	1036	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen05g010100.1	3.0	21.474	1	20	1014	1033	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen05g019370.1	3.0	21.474	1	20	1005	1024	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g009990.1	3.0	21.474	1	20	996	1015	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen04g009190.1	3.0	21.474	1	20	993	1012	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen05g011730.1	3.0	21.474	1	20	993	1012	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen03g040560.1	3.0	21.474	1	20	987	1006	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen01g013250.1	3.0	21.474	1	20	987	1006	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen09g005520.2	3.0	21.474	1	20	987	1006	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen02g031280.1	3.0	21.474	1	20	984	1003	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen12g004570.1	3.0	21.474	1	20	984	1003	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen11g027020.1	3.0	21.474	1	20	981	1000	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen12g028440.1	3.0	21.474	1	20	978	997	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen12g024630.1	3.0	21.564	1	20	951	970	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen06g025500.1	3.0	21.474	1	20	930	949	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução

spe-miR482e-5p	Sopen11g011010.1	3.0	21.474	1	20	828	847	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen11g029070.1	3.0	21.474	1	20	828	847	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR482e-5p	Sopen04g025750.1	3.0	21.474	1	20	828	847	UGUGGGUGGGGUGGAAAGAU	UUCUUUUCACGCUACCCACA	Tradução
spe-miR5014a-3p	Sopen02g024260.1	3.0	23.29	1	21	530	550	UUGUACAAUUUAAGUGUAUA	UGUAUGCUCAGUUUGUACAA	Clivagem
spe-miR5014a-3p	Sopen10g030700.1	2.5	22.118	1	20	1226	1245	UUGUACAAUUUAAGUGUAUA	AUGCAUUUAAGUUGUGCAA	Tradução
spe-miR5014a-3p	Sopen06g005020.1	3.0	19.825	1	20	1771	1790	UUGUACAAUUUAAGUGUAUA	GUACACUUAGAUUUGUGUGG	Clivagem
spe-miR5014a-3p	Sopen12g004710.1	3.0	12.798	1	20	1238	1257	UUGUACAAUUUAAGUGUAUA	AUGCACUUAAACUUGCACAA	Tradução
spe-miR5014a-3p	Sopen05g001140.1	3.0	13.031	1	20	4780	4799	UUGUACAAUUUAAGUGUAUA	AAAUACUUAAAUUUGGACAA	Clivagem
spe-miR5014a-3p	Sopen08g029420.1	3.0	15.603	1	20	1961	1980	UUGUACAAUUUAAGUGUAUA	AGACACUUAGUUUUGUACAG	Tradução
spe-miR5014a-3p	Sopen12g018330.1	3.0	15.788	1	20	3041	3060	UUGUACAAUUUAAGUGUAUA	AGACACUUAGUUUUGUACAG	Tradução
spe-miR5014a-3p	Sopen01g007030.1	3.0	11.6	1	20	1133	1152	UUGUACAAUUUAAGUGUAUA	AGAUGAUUAAAUUUGUACAA	Clivagem
spe-miR5174d-1-5p	Sopen02g016390.1	2.5	15.101	1	24	1324	1347	UCCCUCCGUUUCAAAAAGAUUGGC	GCUAAUCUUUUUGAAAAAGAGGGA	Clivagem
spe-miR5174d-1-5p	Sopen11g003450.1	3.0	19.82	1	23	1310	1332	UCCCUCCGUUUCAAAAAGAUUGG	UUGGUCUUUUUGAAUCGGAGAGA	Tradução
spe-miR5174d-1-5p	Sopen01g029400.1	3.0	22.092	1	24	376	399	UCCCUCCGUUUCAAAAAGAUUGGC	GCAGCUCUUGUUGAGAUGGAGGGA	Clivagem
spe-miR5174d-1-5p	Sopen05g003560.1	3.0	16.146	1	20	1169	1188	UCCCUCCGUUUCAAAAAGAU	AUCUUGUUGAAUGGAUGGA	Clivagem
spe-miR5174d-2-5p	Sopen02g016390.1	2.5	15.101	1	24	1324	1347	UCCCUCCGUUUCAAAAAGAUUGGC	GCUAAUCUUUUUGAAAAAGAGGGA	Clivagem
spe-miR5174d-2-5p	Sopen11g003450.1	3.0	19.82	1	23	1310	1332	UCCCUCCGUUUCAAAAAGAUUGG	UUGGUCUUUUUGAAUCGGAGAGA	Tradução
spe-miR5174d-2-5p	Sopen01g029400.1	3.0	22.092	1	24	376	399	UCCCUCCGUUUCAAAAAGAUUGGC	GCAGCUCUUGUUGAGAUGGAGGGA	Clivagem
spe-miR5174d-2-5p	Sopen05g003560.1	3.0	16.146	1	20	1169	1188	UCCCUCCGUUUCAAAAAGAU	AUCUUGUUGAAUGGAUGGA	Clivagem
spe-miR5174d-2-p	Sopen03g037500.1	3.0	20.308	1	22	784	805	CAUUCUUUUUGAAACGGAAGGA	UCUUUCUUUUUCAUAAAGAAUG	Tradução
spe-miR5174d-2-p	Sopen04g026870.1	3.0	18.488	1	24	554	577	CAUUCUUUUUGAAACGGAAGGAGU	AAUUUUUCCAUUCAAAGGAUG	Clivagem
spe-miR5174d-2-p	Sopen09g016150.1	2.5	18.018	1	21	81	101	CAUUCUUUUUGAAACGGAAGG	UCUUUUUGGUUCAAAGGAUG	Clivagem
spe-miR5174d-2-p	Sopen06g023480.1	3.0	20.73	1	20	452	471	CAUUCUUUUUGAAACGGAAG	CUUCUGUUUUAAAGGGAAUU	Clivagem
spe-miR5174d-2-p	Sopen03g040680.1	3.0	19.206	1	20	133	152	CAUUCUUUUUGAAACGGAAG	UUUCUGUUUCAGGAAGAAUC	Clivagem
spe-miR5174d-2-p	Sopen02g033360.1	3.0	17.371	1	23	383	405	CAUUCUUUUUGAAACGGAAGGAG	UUGCUUUGGUUUAAAGGGAAUG	Clivagem
spe-miR5174d-2-p	Sopen10g013850.1	3.0	13.122	1	23	503	525	CAUUCUUUUUGAAACGGAAGGAG	CUGCUUCGGUUGCGGAAAGAAUG	Clivagem
spe-miR5174d-2-p	Sopen08g029000.1	3.0	22.03	1	24	3788	3811	CAUUCUUUUUGAAACGGAAGGAGU	AUGUAUUUCGUUCCAAAAAGGAUG	Clivagem
spe-miR5174d-2-p	Sopen07g029280.1	3.0	16.099	1	20	492	511	CAUUCUUUUUGAAACGGAAG	AGUCCGUUCCAAAAAGAAUG	Clivagem
spe-miR5174d-2-p	Sopen02g003200.1	3.0	21.002	1	23	746	768	CAUUCUUUUUGAAACGGAAGGAG	UUGCUUCGGUUCAGAAAGAGUG	Clivagem
spe-miR5174d-2-p	Sopen07g005100.1	3.0	18.845	1	22	4011	4032	CAUUCUUUUUGAAACGGAAGGA	UACUGCUGCUUCAAAGGAUG	Clivagem
spe-miR5174d-3-3p	Sopen01g044040.1	3.0	19.35	1	24	2492	2516	CAUUCUUUUUAAACGGAGG-GAGU	AUUCACCUUCGUUGAUGAGGAUG	Tradução
spe-miR5174d-3-3p	Sopen06g022280.2	3.0	19.558	1	20	84	103	CAUUCUUUUUAAACGGAGG	UCUCCUGUAAAGAAGAAUG	Clivagem
spe-miR5174d-3-3p	Sopen06g022280.1	3.0	19.558	1	20	84	103	CAUUCUUUUUAAACGGAGG	UCUCCUGUAAAGAAGAAUG	Clivagem
spe-miR5174d-3-5p	Sopen02g016390.1	2.5	15.101	1	24	1324	1347	UCCCUCCGUUUCAAAAAGAUUGGC	GCUAAUCUUUUUGAAAAAGAGGGA	Clivagem
spe-miR5174d-3-5p	Sopen11g003450.1	3.0	19.82	1	23	1310	1332	UCCCUCCGUUUCAAAAAGAUUGG	UUGGUCUUUUUGAAUCGGAGAGA	Tradução

spe-miR5174d-3-5p	Sopen01g029400.1	3.0	22.092	1	24	376	399	UCCCUCCGUUUCAAAAAGAUUGGC	GCAGCUCUUGUUGAGAUGGAGGGA	Clivagem
spe-miR5174d-3-5p	Sopen05g003560.1	3.0	16.146	1	20	1169	1188	UCCCUCCGUUUCAAAAAGAU	AUCUUGUUGAAAUGGAUGGA	Clivagem
spe-miR5300-5p	Sopen06g023200.1	3.0	19.598	1	20	180	199	UCCCCAGUCCAGGCAUUGCA	UGGAAUGCCUGGACUCGGUA	Clivagem
spe-miR5300-5p	Sopen06g023160.1	3.0	20.65	1	20	177	196	UCCCCAGUCCAGGCAUUGCA	UGGAAUGCCUGGACUCGGUA	Clivagem
spe-miR5300-5p	Sopen06g023300.1	3.0	20.779	1	20	138	157	UCCCCAGUCCAGGCAUUGCA	UGGAAUGCCUGGACUCGGUA	Clivagem
spe-miR5300-5p	Sopen06g023170.1	3.0	18.136	1	20	51	70	UCCCCAGUCCAGGCAUUGCA	UGGAAUGCCUGGACUUGGUA	Clivagem
spe-miR5303-1-3p	Sopen09g025700.2	1.0	16.067	1	21	132	152	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCGGACUCUUCAAAAA	Clivagem
spe-miR5303-1-3p	Sopen01g034820.1	1.5	9.022	1	21	1631	1651	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCGGACUCUUCAAAAAG	Clivagem
spe-miR5303-1-3p	Sopen07g012560.1	1.5	16.13	1	21	61	81	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCAGACUCUUCAAAAA	Clivagem
spe-miR5303-1-3p	Sopen12g003080.1	2.5	18.746	1	21	775	795	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGAAUUCUUGGAAAA	Clivagem
spe-miR5303-1-3p	Sopen09g004210.1	2.5	20.4	1	21	215	235	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGGACUCUCCAGAAA	Clivagem
spe-miR5303-1-3p	Sopen08g028160.1	2.0	12.822	1	21	482	502	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCAGACUCUUCAAAAA	Clivagem
spe-miR5303-1-3p	Sopen07g003140.1	2.5	16.761	1	21	125	145	UUUUUGAAGAGUUCGAGCAAC	GUUACUCGGAUUUUUUCAAAAA	Clivagem
spe-miR5303-1-3p	Sopen06g014130.1	2.0	11.143	1	20	9	28	UUUUUGAAGAGUUCGAGCAA	UUGCUUCAUUUCUUCAAAAA	Clivagem
spe-miR5303-1-3p	Sopen11g007090.2	3.0	20.123	1	21	3	23	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCUGGAAUCUUCAAAAAC	Tradução
spe-miR5303-1-3p	Sopen12g002770.1	3.0	15.388	1	21	3	23	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCAGAUUCUUCAGAAA	Clivagem
spe-miR5303-1-3p	Sopen10g001690.1	2.5	20.107	1	21	51	71	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCAGAGUCUUCAAAAA	Tradução
spe-miR5303-1-3p	Sopen04g034150.1	2.5	17.475	1	20	225	244	UUUUUGAAGAGUUCGAGCAA	UUGCUCGGAUUUUUUCAAAAA	Tradução
spe-miR5303-1-3p	Sopen02g002610.1	3.0	15.718	1	21	562	582	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGAAUUCUUCGAAAG	Tradução
spe-miR5303-1-3p	Sopen06g001130.1	3.0	8.735	1	20	1237	1256	UUUUUGAAGAGUUCGAGCAA	GUUCUCGAAUUUUUUCAAAAA	Clivagem
spe-miR5303-1-3p	Sopen01g003610.1	2.5	8.204	1	20	382	401	UUUUUGAAGAGUUCGAGCAA	UUUCUUAACUCUUCAAAAA	Clivagem
spe-miR5303-1-3p	Sopen02g038670.1	3.0	21.889	1	20	439	458	UUUUUGAAGAGUUCGAGCAA	UUACUUGAGCUUUUUCAAAGA	Clivagem
spe-miR5303-1-5p	Sopen01g019870.1	3.0	19.035	1	24	2821	2844	UUUUGGAGGAUCCGAGUCGUACCC	GGGAUCGAGUUGGAUCCUUCAAAA	Clivagem
spe-miR5303-1-5p	Sopen06g004440.1	3.0	18.043	1	23	1986	2008	UUUUGGAGGAUCCGAGUCGUACC	GGCACGCCUUGGAUCUUCCAAAG	Clivagem
spe-miR5303-1-5p	Sopen07g029270.1	3.0	17.674	1	23	3162	3184	UUUUGGAGGAUCCGAGUCGUACC	GGCACGCCUUGGAUCUUCCAAAG	Clivagem
spe-miR5303-1-5p	Sopen12g005650.1	2.5	14.586	1	20	117	136	UUUUGGAGGAUCCGAGUCGU	AUCACUCGGAUUCUCCAAAG	Clivagem
spe-miR5303-2-3p	Sopen09g025700.2	1.0	16.067	1	21	132	152	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCGGACUCUUCAAAAA	Clivagem
spe-miR5303-2-3p	Sopen01g034820.1	1.5	9.022	1	21	1631	1651	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCGGACUCUUCAAAAAG	Clivagem
spe-miR5303-2-3p	Sopen07g012560.1	1.5	16.13	1	21	61	81	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCAGACUCUUCAAAAA	Clivagem
spe-miR5303-2-3p	Sopen12g003080.1	2.5	18.746	1	21	775	795	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGAAUUCUUGGAAAA	Clivagem
spe-miR5303-2-3p	Sopen09g004210.1	2.5	20.4	1	21	215	235	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGGACUCUCCAGAAA	Clivagem
spe-miR5303-2-3p	Sopen08g028160.1	2.0	12.822	1	21	482	502	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCAGACUCUUCAAAAA	Clivagem
spe-miR5303-2-3p	Sopen07g003140.1	2.5	16.761	1	21	125	145	UUUUUGAAGAGUUCGAGCAAC	GUUACUCGGAUUUUUUCAAAAA	Clivagem
spe-miR5303-2-3p	Sopen06g014130.1	2.0	11.143	1	20	9	28	UUUUUGAAGAGUUCGAGCAA	UUGCUUCAUUUCUUCAAAAA	Clivagem
spe-miR5303-2-3p	Sopen11g007090.2	3.0	20.123	1	21	3	23	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCUGGAAUCUUCAAAAAC	Tradução

spe-miR5303-2-3p	Sopen12g002770.1	3.0	15.388	1	21	3	23	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCAGAUUCUUCAGAAA	Clivagem
spe-miR5303-2-3p	Sopen10g001690.1	2.5	20.107	1	21	51	71	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCAGAGUCUUCAAAAA	Tradução
spe-miR5303-2-3p	Sopen04g034150.1	2.5	17.475	1	20	225	244	UUUUUGAAGAGUUCGAGCAA	UUGCUCGGAUUAUUUAAAAA	Tradução
spe-miR5303-2-3p	Sopen02g002610.1	3.0	15.718	1	21	562	582	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGAAAUUCUUCGAAAG	Tradução
spe-miR5303-2-3p	Sopen06g001130.1	3.0	8.735	1	20	1237	1256	UUUUUGAAGAGUUCGAGCAA	GUUCUCGAAUUUUUAAAAA	Clivagem
spe-miR5303-2-3p	Sopen01g003610.1	2.5	8.204	1	20	382	401	UUUUUGAAGAGUUCGAGCAA	UUUCUUAACUCUUCAAAAA	Clivagem
spe-miR5303-2-3p	Sopen02g038670.1	3.0	21.889	1	20	439	458	UUUUUGAAGAGUUCGAGCAA	UUACUUGAGCUUUUCAAAGA	Clivagem
spe-miR5303-2-5p	Sopen09g004210.1	1.5	24.731	1	20	13	32	UUUUGGAGGAUCCAACACGU	CCGUGUUGGAUCCUCCAGAA	Clivagem
spe-miR5303-2-5p	Sopen01g019870.1	2.5	19.035	1	24	2821	2844	UUUUGGAGGAUCCAACACGUACCC	GGGAUCGAGUUGGAUCCUUCAAAA	Clivagem
spe-miR5303-2-5p	Sopen06g029330.1	2.0	20.563	1	20	1377	1396	UUUUGGAGGAUCCAACACGU	ACGUGUUGGAUUUUUCUAGAA	Clivagem
spe-miR5303-2-5p	Sopen07g012250.1	3.0	17.871	1	21	1151	1171	UUUUGGAGGAUCCAACACGUA	UACAUGUUGGGUCCUCCAAUA	Clivagem
spe-miR5303-2-5p	Sopen06g035470.2	2.5	15.501	1	24	1067	1090	UUUUGGAGGAUCCAACACGUACCC	GAGAAUGUGUUGGACCUUCUAAAA	Tradução
spe-miR5303-2-5p	Sopen06g035470.1	2.5	15.501	1	24	1346	1369	UUUUGGAGGAUCCAACACGUACCC	GAGAAUGUGUUGGACCUUCUAAAA	Tradução
spe-miR5303-2-5p	Sopen01g024940.1	2.5	16.132	1	20	41	60	UUUUGGAGGAUCCAACACGU	AUGUGUUUGAUCCUCCAAAU	Clivagem
spe-miR5303-2-5p	Sopen02g011050.1	2.5	17.277	1	20	671	690	UUUUGGAGGAUCCAACACGU	AUGUGUUUGAUCCUCCAAAU	Clivagem
spe-miR5303-2-5p	Sopen01g048110.1	3.0	19.098	1	22	354	375	UUUUGGAGGAUCCAACACGUAC	GCAUGUGUUGGAUCCUUAUAGA	Clivagem
spe-miR5303-2-5p	Sopen04g001200.1	3.0	22.861	1	20	194	213	UUUUGGAGGAUCCAACACGU	UUGUGUUGGAUCCUCCGGGA	Clivagem
spe-miR5303-2-5p	Sopen01g010260.1	2.5	15.099	1	20	3170	3189	UUUUGGAGGAUCCAACACGU	UCGAGUUGGAUCCUUCAAAA	Clivagem
spe-miR5303-2-5p	Sopen07g016340.1	3.0	15.245	1	20	836	855	UUUUGGAGGAUCCAACACGU	GUGUGUUGGGUUUUUCUAAAA	Clivagem
spe-miR5303-2-5p	Sopen02g027600.1	3.0	19.359	1	20	135	154	UUUUGGAGGAUCCAACACGU	AAGUGUUGGAUCCUUCAGU	Clivagem
spe-miR5303-2-5p	Sopen01g012380.1	3.0	16.001	1	20	713	732	UUUUGGAGGAUCCAACACGU	AUGUGUUGGGUUUAUCUAAAA	Clivagem
spe-miR5303-2-5p	Sopen10g019600.1	3.0	13.199	1	20	14	33	UUUUGGAGGAUCCAACACGU	AUGUGUUGGGUUUAUCUAAAA	Clivagem
spe-miR5303-2-5p	Sopen10g020070.1	3.0	16.001	1	20	836	855	UUUUGGAGGAUCCAACACGU	AUGUGUUGGGUUUAUCUAAAA	Clivagem
spe-miR5303-2-5p	Sopen04g021910.1	3.0	17.853	1	20	458	477	UUUUGGAGGAUCCAACACGU	AUGUGUUGUAUCUUUCAGAA	Clivagem
spe-miR5303-2-5p	Sopen03g025850.1	3.0	14.662	1	20	1928	1947	UUUUGGAGGAUCCAACACGU	GUGUGUUGGAUUUAUCUAAAA	Clivagem
spe-miR5303-2-5p	Sopen10g007980.1	3.0	17.04	1	20	2087	2106	UUUUGGAGGAUCCAACACGU	AUGUGUUGGGUUUAUCUAAAA	Clivagem
spe-miR5303-2-5p	Sopen11g014430.1	3.0	19.775	1	20	2147	2166	UUUUGGAGGAUCCAACACGU	GUGUGUUGGGUCAUCUAAAA	Clivagem
spe-miR5303-2-5p	Sopen12g009410.1	3.0	18.985	1	20	3374	3393	UUUUGGAGGAUCCAACACGU	AUGUGUUGGGUUUAUCUAAAA	Clivagem
spe-miR5303-2-5p	Sopen01g012380.2	3.0	16.001	1	20	3365	3384	UUUUGGAGGAUCCAACACGU	AUGUGUUGGGUUUAUCUAAAA	Clivagem
spe-miR5303-3-3p	Sopen09g025700.2	1.0	16.067	1	21	132	152	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCGGACUCUUCAAAAA	Clivagem
spe-miR5303-3-3p	Sopen01g034820.1	1.5	9.022	1	21	1631	1651	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCGGACUCUUCAAAG	Clivagem
spe-miR5303-3-3p	Sopen07g012560.1	1.5	16.13	1	21	61	81	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCAGACUCUUCAAAAA	Clivagem
spe-miR5303-3-3p	Sopen12g003080.1	2.5	18.746	1	21	775	795	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGAAUUCUUGGAAAA	Clivagem
spe-miR5303-3-3p	Sopen09g004210.1	2.5	20.4	1	21	215	235	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGGACUCCAGAAA	Clivagem
spe-miR5303-3-3p	Sopen08g028160.1	2.0	12.822	1	21	482	502	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCAGACUCUUCAAAAA	Clivagem

spe-miR5303-3-3p	Sopen07g003140.1	2.5	16.761	1	21	125	145	UUUUUGAAGAGUUCGAGCAAC	GUUACUCGGAUUUUUCAAAAA	Clivagem
spe-miR5303-3-3p	Sopen06g014130.1	2.0	11.143	1	20	9	28	UUUUUGAAGAGUUCGAGCAA	UUGCUUCAAUUCUUCAAAAA	Clivagem
spe-miR5303-3-3p	Sopen11g007090.2	3.0	20.123	1	21	3	23	UUUUUGAAGAGUUCGAGCAAC	GUUGCUUGGAAUCUUCAAAAAC	Tradução
spe-miR5303-3-3p	Sopen12g002770.1	3.0	15.388	1	21	3	23	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCAGAUUCUUCAGAAA	Clivagem
spe-miR5303-3-3p	Sopen10g001690.1	2.5	20.107	1	21	51	71	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCAGAGUCUUCAAAAA	Tradução
spe-miR5303-3-3p	Sopen04g034150.1	2.5	17.475	1	20	225	244	UUUUUGAAGAGUUCGAGCAA	UUGCUCGGAUUAUUUCAAAAA	Tradução
spe-miR5303-3-3p	Sopen02g002610.1	3.0	15.718	1	21	562	582	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCCAAAUUCUUCGAAAG	Tradução
spe-miR5303-3-3p	Sopen06g001130.1	3.0	8.735	1	20	1237	1256	UUUUUGAAGAGUUCGAGCAA	GUUCUCGAAUUUUUCAAAAA	Clivagem
spe-miR5303-3-3p	Sopen01g003610.1	2.5	8.204	1	20	382	401	UUUUUGAAGAGUUCGAGCAA	UUUCUUAACUCUUCAAAAA	Clivagem
spe-miR5303-3-3p	Sopen02g038670.1	3.0	21.889	1	20	439	458	UUUUUGAAGAGUUCGAGCAA	UUACUUGAGCUUUUCAAGA	Clivagem
spe-miR5303-3-5p	Sopen12g006300.1	2.5	13.496	1	23	181	203	UUUUUGAAGGAUCCGGCACACACC	GAUGUAUGUCGGAUCAUUCAAAA	Clivagem
spe-miR5303-3-5p	Sopen07g022670.1	2.5	19.243	1	20	1280	1299	UUUUGAAGGAUCCGGCACAC	GUGUGAUGGAUCCUUUGAAA	Clivagem
spe-miR5303-3-5p	Sopen09g023600.1	3.0	17.773	1	20	122	141	UUUUGAAGGAUCCGGCACAC	GAGUGUCGGAUUUUUUAAAA	Clivagem
spe-miR5303-5p	Sopen09g025700.2	1.0	16.067	1	21	132	152	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCGGACUCUUCAAAAA	Clivagem
spe-miR5303-5p	Sopen01g034820.1	1.5	9.022	1	21	1631	1651	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCGGACUCUUCAAAAAG	Clivagem
spe-miR5303-5p	Sopen07g012560.1	1.5	16.13	1	21	61	81	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCAGACUCUUCAAAAA	Clivagem
spe-miR5303-5p	Sopen12g003080.1	2.5	18.746	1	21	775	795	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGAAUUCUUGGAAAA	Clivagem
spe-miR5303-5p	Sopen09g004210.1	2.5	20.4	1	21	215	235	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCGGACUCUCCAGAAA	Clivagem
spe-miR5303-5p	Sopen08g028160.1	2.0	12.822	1	21	482	502	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCAGACUCUUCAAAAA	Clivagem
spe-miR5303-5p	Sopen07g003140.1	2.5	16.761	1	21	125	145	UUUUUGAAGAGUUCGAGCAAC	GUUACUCGGAUUUUUCAAAAA	Clivagem
spe-miR5303-5p	Sopen06g014130.1	2.0	11.143	1	20	9	28	UUUUUGAAGAGUUCGAGCAA	UUGCUUCAAUUCUUCAAAAA	Clivagem
spe-miR5303-5p	Sopen11g007090.2	3.0	20.123	1	21	3	23	UUUUUGAAGAGUUCGAGCAAC	GUUGCUUGGAAUCUUCAAAAAC	Tradução
spe-miR5303-5p	Sopen12g002770.1	3.0	15.388	1	21	3	23	UUUUUGAAGAGUUCGAGCAAC	GUUGUUCAGAUUCUUCAGAAA	Clivagem
spe-miR5303-5p	Sopen10g001690.1	2.5	20.107	1	21	51	71	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCAGAGUCUUCAAAAA	Tradução
spe-miR5303-5p	Sopen04g034150.1	2.5	17.475	1	20	225	244	UUUUUGAAGAGUUCGAGCAA	UUGCUCGGAUUAUUUCAAAAA	Tradução
spe-miR5303-5p	Sopen02g002610.1	3.0	15.718	1	21	562	582	UUUUUGAAGAGUUCGAGCAAC	GUUGCUCCAAAUUCUUCGAAAG	Tradução
spe-miR5303-5p	Sopen06g001130.1	3.0	8.735	1	20	1237	1256	UUUUUGAAGAGUUCGAGCAA	GUUCUCGAAUUUUUCAAAAA	Clivagem
spe-miR5303-5p	Sopen01g003610.1	2.5	8.204	1	20	382	401	UUUUUGAAGAGUUCGAGCAA	UUUCUUAACUCUUCAAAAA	Clivagem
spe-miR5303-5p	Sopen02g038670.1	3.0	21.889	1	20	439	458	UUUUUGAAGAGUUCGAGCAA	UUACUUGAGCUUUUCAAGA	Clivagem
spe-miR5303c-1-3p	Sopen01g025810.1	3.0	21.158	1	21	69	89	ACGGGUGCGGCUACAUUUUUG	CAAGGAUGCAGCUGCAUCCGU	Clivagem
spe-miR5303c-1-3p	Sopen03g040490.1	3.0	15.98	1	21	282	301	ACGGGUGCGGCUACAUUUUUG	CAAAAUGUAGCUG-ACCCGU	Clivagem
spe-miR5303c-2-3p	Sopen09g027430.3	2.5	22.999	1	23	1932	1954	UUUUGGAGAAUCCGACACGCACC	GGUGCGUUUCGGAUUAUCCGAAA	Clivagem
spe-miR5303c-2-3p	Sopen12g003610.1	2.5	13.684	1	23	583	605	UUUUGGAGAAUCCGACACGCACC	GAUUCGUGUCAGAUUCUCCAGAA	Clivagem
spe-miR5303c-2-3p	Sopen07g016340.1	2.5	15.245	1	20	836	855	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUUUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen06g029330.1	3.0	20.563	1	20	1377	1396	UUUUGGAGAAUCCGACACGC	ACGUGUUGGAUUUUCUAGAA	Clivagem

spe-miR5303c-2-3p	Sopen09g023600.1	2.5	17.773	1	20	122	141	UUUUGGAGAAUCCGACACGC	GAGUGUCGGAUUUUUUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen06g012190.1	2.5	18.385	1	20	1514	1533	UUUUGGAGAAUCCGACACGC	GUGUGUCGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen03g025850.1	2.5	14.662	1	20	1928	1947	UUUUGGAGAAUCCGACACGC	GUGUGUUGGAUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen04g001920.1	3.0	23.365	1	20	248	267	UUUUGGAGAAUCCGACACGC	CCGUCUCGGAUUCUCAAAG	Clivagem
spe-miR5303c-2-3p	Sopen09g004210.1	3.0	24.731	1	20	13	32	UUUUGGAGAAUCCGACACGC	CCGUGUUGGAUCCUCCAGAA	Tradução
spe-miR5303c-2-3p	Sopen02g017740.1	3.0	18.927	1	20	57	76	UUUUGGAGAAUCCGACACGC	UCGCGUCGGAUUCUCUAAAG	Clivagem
spe-miR5303c-2-3p	Sopen04g009260.1	3.0	12.593	1	20	14	33	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen07g018590.1	3.0	11.409	1	20	14	33	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen06g014610.1	3.0	14.785	1	20	836	855	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen08g022820.1	3.0	17.528	1	20	713	732	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen04g020640.1	3.0	17.528	1	20	743	762	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen01g027490.1	3.0	14.482	1	20	836	855	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen05g027670.1	3.0	17.528	1	20	974	993	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen01g013090.1	3.0	14.713	1	20	1001	1020	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen01g027700.1	3.0	14.394	1	20	1100	1119	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen06g013020.1	3.0	17.528	1	20	1100	1119	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen08g008980.1	3.0	17.528	1	20	1100	1119	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen01g008670.1	3.0	17.528	1	20	1100	1119	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen02g025170.1	3.0	17.528	1	20	1100	1119	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen10g006030.1	3.0	15.115	1	20	977	996	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen07g016990.1	3.0	17.528	1	20	1673	1692	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen03g010390.1	3.0	17.528	1	20	1667	1686	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen08g009010.1	3.0	17.528	1	20	2030	2049	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen03g015340.1	3.0	14.888	1	20	1106	1125	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen07g011690.1	3.0	13.599	1	20	2330	2349	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen05g010400.1	3.0	17.528	1	20	2096	2115	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen04g020490.1	3.0	17.528	1	20	2477	2496	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen01g009460.1	3.0	17.528	1	20	2558	2577	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen07g017080.1	3.0	17.528	1	20	2660	2679	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen01g011680.1	3.0	17.528	1	20	2693	2712	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen01g011450.1	3.0	17.528	1	20	2789	2808	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen10g022590.1	3.0	17.528	1	20	2789	2808	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen05g018730.1	3.0	17.528	1	20	2801	2820	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen04g020820.1	3.0	17.528	1	20	2888	2907	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen07g016530.1	3.0	17.866	1	20	2963	2982	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem

spe-miR5303c-2-3p	Sopen11g023000.2	3.0	17.528	1	20	2963	2982	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen07g008450.1	3.0	17.528	1	20	3002	3021	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen04g019520.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen07g019420.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen01g010970.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen00g002370.1	3.0	18.147	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen04g009010.1	3.0	19.471	1	20	3362	3381	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen03g024520.1	3.0	17.528	1	20	3281	3300	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen01g047890.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen02g025170.2	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen10g027840.2	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen04g018280.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen03g010390.2	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen11g019300.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen12g009510.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen06g013210.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen06g009700.1	3.0	16.669	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen03g022610.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen11g023000.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen07g018530.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen08g008030.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen05g022710.1	3.0	18.147	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen05g007960.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen11g022640.1	3.0	16.457	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen04g011990.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen01g054370.2	3.0	17.528	1	20	3416	3435	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen07g009610.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen01g049740.1	3.0	17.528	1	20	3365	3384	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen12g009140.1	3.0	17.528	1	20	4976	4995	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen09g025290.1	3.0	17.528	1	20	3206	3225	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen07g016960.1	3.0	17.528	1	20	3041	3060	UUUUGGAGAAUCCGACACGC	GUGUGUUGGGUUAUCUAAAA	Clivagem
spe-miR5303c-2-3p	Sopen05g014140.1	3.0	22.725	1	20	1158	1177	UUUUGGAGAAUCCGACACGC	GUGUGUCGCACUCUCUAAAA	Tradução
spe-miR5303e-3p	Sopen04g001920.1	2.5	23.365	1	24	244	267	UUUUGGAGAAUCUGACACGGGUGC	GCACCCGUCUCGGAUUCUCAAAG	Clivagem
spe-miR5303e-3p	Sopen05g033640.1	2.5	20.001	1	24	4791	4814	UUUUGGAGAAUCUGACACGGGUGC	GCACUCGUGUCAGAUCUCCUAGAA	Tradução
spe-miR5303e-3p	Sopen12g003610.1	1.0	13.684	1	22	584	605	UUUUGGAGAAUCUGACACGGGU	AUUCGUGUCAGAUUCUCCAGAA	Clivagem

spe-miR5303e-3p	Sopen09g004210.1	2.5	24.731	1	24	9	32	UUUUGGAGAAUCUGACACGGGUGC	GUACCCGUGUUGGAUCCUCCAGAA	Tradução
spe-miR5303e-3p	Sopen01g001200.1	2.5	16.463	1	24	1042	1065	UUUUGGAGAAUCUGACACGGGUGC	GCAUCUGUGUCAGAUAAUCCAAAA	Tradução
spe-miR5303e-3p	Sopen11g010700.1	2.5	23.468	1	22	693	714	UUUUGGAGAAUCUGACACGGGU	ACCCGGUUCAGAUUCUUCAAAA	Clivagem
spe-miR5303e-3p	Sopen08g028160.1	3.0	24.549	1	23	511	533	UUUUGGAGAAUCUGACACGGGUG	CAAUUGUGUCAGAUUCAUAAAA	Clivagem
spe-miR5303e-3p	Sopen03g027630.1	2.5	24.82	1	23	1169	1191	UUUUGGAGAAUCUGACACGGGUG	CAACCGAGUCAGAUUCUCUGGAA	Clivagem
spe-miR5303e-3p	Sopen02g024920.1	3.0	4.878	1	22	18	39	UUUUGGAGAAUCUGACACGGGU	ACCAUUGUUAGAUUCUCCGAAA	Clivagem
spe-miR5303e-3p	Sopen02g024930.1	3.0	4.878	1	22	18	39	UUUUGGAGAAUCUGACACGGGU	ACCAUUGUUAGAUUCUCCGAAA	Clivagem
spe-miR5303e-3p	Sopen02g017740.1	3.0	18.927	1	24	53	76	UUUUGGAGAAUCUGACACGGGUGC	GCCGUCGCGUCGGAUUCUCUAAAG	Clivagem
spe-miR5303e-3p	Sopen01g049130.1	3.0	15.921	1	22	1465	1486	UUUUGGAGAAUCUGACACGGGU	GUUCGUGUCAGUUUGUCCAAAG	Tradução
spe-miR5303e-3p	Sopen04g003960.1	3.0	15.214	1	20	972	991	UUUUGGAGAAUCUGACACGG	UUGUGUCACAUUCUUCAAAG	Clivagem
spe-miR5303e-3p	Sopen10g032130.1	3.0	13.91	1	21	934	954	UUUUGGAGAAUCUGACACGGG	UUCAUCUCAGAUUCUCCAAGA	Clivagem
spe-miR5303e-3p	Sopen04g024230.1	3.0	7.635	1	22	123	143	UUUUGGAGAAUCUGACACGGGU	AUCCAUGUCAGAUU-UCCAAAA	Clivagem
spe-miR5303e-3p	Sopen02g011520.1	3.0	23.03	1	20	1868	1887	UUUUGGAGAAUCUGACACGG	CCGUUUCGGAUGCUCCAGAA	Tradução
spe-miR5303e-3p	Sopen09g024450.1	3.0	22.978	1	20	1727	1746	UUUUGGAGAAUCUGACACGG	CCGUUUCGGAUGCUCCAGAA	Tradução
spe-miR5303f-1-5p	Sopen12g003610.1	0.5	14.225	1	24	584	607	AUUUUUGGAGAAUCUGACACGGGU	AUUCGUGUCAGAUUCUCCAGAAAU	Clivagem
spe-miR5303f-1-5p	Sopen04g001920.1	2.5	22.192	1	24	246	269	AUUUUUGGAGAAUCUGACACGGGU	ACCCGUCUCGGAUUCUUCAAAGAU	Clivagem
spe-miR5303f-1-5p	Sopen09g004210.1	2.5	24.731	1	24	11	34	AUUUUUGGAGAAUCUGACACGGGU	ACCCGUGUUGGAUCCUCCAGAAAU	Tradução
spe-miR5303f-1-5p	Sopen05g033640.1	2.0	18.815	1	24	4793	4816	AUUUUUGGAGAAUCUGACACGGGU	ACUCGUGUCAGAUCCUUCAGAAAU	Tradução
spe-miR5303f-1-5p	Sopen01g001200.1	2.0	16.225	1	24	1044	1067	AUUUUUGGAGAAUCUGACACGGGU	AUCUGUGUCAGAUAAUCCAAAAAU	Tradução
spe-miR5303f-1-5p	Sopen08g028160.1	1.5	22.677	1	24	512	535	AUUUUUGGAGAAUCUGACACGGGU	AAUUGUGUCAGAUUCAUAAAAAU	Tradução
spe-miR5303f-1-5p	Sopen02g024930.1	3.0	5.072	1	24	18	41	AUUUUUGGAGAAUCUGACACGGGU	ACCAUUGUUAGAUUCUCCGAAAAC	Clivagem
spe-miR5303f-1-5p	Sopen02g024920.1	3.0	5.072	1	24	18	41	AUUUUUGGAGAAUCUGACACGGGU	ACCAUUGUUAGAUUCUCCGAAAAC	Clivagem
spe-miR5303f-1-5p	Sopen06g029330.1	3.0	20.62	1	23	1376	1398	AUUUUUGGAGAAUCUGACACGGG	CACGUGUUGGAUUUUCUAGAAGU	Clivagem
spe-miR5303f-1-5p	Sopen11g028290.1	3.0	17.378	1	24	495	518	AUUUUUGGAGAAUCUGACACGGGU	GCUUGUUUAGAUUCUUCAAAAAU	Clivagem
spe-miR5303f-1-5p	Sopen04g003960.1	3.0	15.208	1	22	972	993	AUUUUUGGAGAAUCUGACACGG	UUGUGUCACAUUCUUCAAAGAG	Clivagem
spe-miR5303f-1-5p	Sopen10g001930.1	3.0	13.295	1	24	804	827	AUUUUUGGAGAAUCUGACACGGGU	ACCAGUGCCUGAGUCUCCAAAAAU	Clivagem
spe-miR5303f-1-5p	Sopen03g011900.1	3.0	15.22	1	22	3335	3356	AUUUUUGGAGAAUCUGACACGG	UCGAGUUAGAUCCUUCAAAAAU	Tradução
spe-miR5303f-1-5p	Sopen01g011000.1	2.5	16.594	1	20	367	386	AUUUUUGGAGAAUCUGACAC	GUGUCAGAUUUUGUGAAAAU	Clivagem
spe-miR5303f-1-5p	Sopen12g009130.1	3.0	15.266	1	24	388	411	AUUUUUGGAGAAUCUGACACGGGU	GCUAGUGUCCAUUCUCCAAGAAU	Clivagem
spe-miR5303f-1-5p	Sopen11g028510.1	3.0	21.345	1	20	62	81	AUUUUUGGAGAAUCUGACAC	GUGUCACAUUCUCUAAAAAGG	Clivagem
spe-miR5303f-1-5p	Sopen08g005740.1	3.0	20.577	1	20	301	320	AUUUUUGGAGAAUCUGACAC	GUGUCAGAUUUGUUGAAAAU	Tradução
spe-miR5303f-1-5p	Sopen08g022350.2	3.0	19.305	1	21	389	409	AUUUUUGGAGAAUCUGACACG	UGGGUCAAUUUUCAGAAAU	Clivagem
spe-miR5303f-1-5p	Sopen08g022350.1	3.0	19.305	1	21	392	412	AUUUUUGGAGAAUCUGACACG	UGGGUCAAUUUUCAGAAAU	Clivagem
spe-miR5303f-1-5p	Sopen06g022100.1	3.0	18.617	1	24	1140	1163	AUUUUUGGAGAAUCUGACACGGGU	ACAAGUGUUAGAUUCCAAGAU	Tradução
spe-miR5303f-2-3p	Sopen12g003610.1	0.5	14.225	1	24	584	607	AUUUUUGGAGAAUCUGACACGGGU	AUUCGUGUCAGAUUCUCCAGAAAU	Clivagem

spe-miR5303f-2-3p	Sopen04g001920.1	2.5	22.192	1	24	246	269	AUUUUUGGAGAAUCUGACACGGGU	ACCCGUCUCGGAUUCUCAAAGAU	Clivagem
spe-miR5303f-2-3p	Sopen09g004210.1	2.5	24.731	1	24	11	34	AUUUUUGGAGAAUCUGACACGGGU	ACCCGUGUUGGAUCCUCCAGAAAU	Tradução
spe-miR5303f-2-3p	Sopen05g033640.1	2.0	18.815	1	24	4793	4816	AUUUUUGGAGAAUCUGACACGGGU	ACUCGUGUCAGAUCCUUCAGAAAU	Tradução
spe-miR5303f-2-3p	Sopen01g001200.1	2.0	16.225	1	24	1044	1067	AUUUUUGGAGAAUCUGACACGGGU	AUCUGUGUCAGAUAAUCCAAAAAU	Tradução
spe-miR5303f-2-3p	Sopen08g028160.1	1.5	22.677	1	24	512	535	AUUUUUGGAGAAUCUGACACGGGU	AAUUGUGUCAGAUUCAUAAAAAU	Tradução
spe-miR5303f-2-3p	Sopen02g024930.1	3.0	5.072	1	24	18	41	AUUUUUGGAGAAUCUGACACGGGU	ACCAUUGUUAGAUUCUCCGAAAAC	Clivagem
spe-miR5303f-2-3p	Sopen02g024920.1	3.0	5.072	1	24	18	41	AUUUUUGGAGAAUCUGACACGGGU	ACCAUUGUUAGAUUCUCCGAAAAC	Clivagem
spe-miR5303f-2-3p	Sopen06g029330.1	3.0	20.62	1	23	1376	1398	AUUUUUGGAGAAUCUGACACGGG	CACGUGUUGGAUUUUCUAGAAGU	Clivagem
spe-miR5303f-2-3p	Sopen11g028290.1	3.0	17.378	1	24	495	518	AUUUUUGGAGAAUCUGACACGGGU	GCUUGUUUAGAUUCUCAA AAAAU	Clivagem
spe-miR5303f-2-3p	Sopen04g003960.1	3.0	15.208	1	22	972	993	AUUUUUGGAGAAUCUGACACGG	UUGUGUCACAUUCUCAAAGAG	Clivagem
spe-miR5303f-2-3p	Sopen10g001930.1	3.0	13.295	1	24	804	827	AUUUUUGGAGAAUCUGACACGGGU	ACCAGUGCCUGAGUCUCCAAAAAU	Clivagem
spe-miR5303f-2-3p	Sopen03g011900.1	3.0	15.22	1	22	3335	3356	AUUUUUGGAGAAUCUGACACGG	UCGAGUUAGAUCCUCAA AAAAU	Tradução
spe-miR5303f-2-3p	Sopen01g011000.1	2.5	16.594	1	20	367	386	AUUUUUGGAGAAUCUGACAC	GUGUCAGAUUUUGUGAAAAU	Clivagem
spe-miR5303f-2-3p	Sopen12g009130.1	3.0	15.266	1	24	388	411	AUUUUUGGAGAAUCUGACACGGGU	GCUAGUGUCCAUCUCCAAGAAU	Clivagem
spe-miR5303f-2-3p	Sopen11g028510.1	3.0	21.345	1	20	62	81	AUUUUUGGAGAAUCUGACAC	GUGUCACAUUCUCUAAAAGG	Clivagem
spe-miR5303f-2-3p	Sopen08g005740.1	3.0	20.577	1	20	301	320	AUUUUUGGAGAAUCUGACAC	GUGUCAGAUUUUGUGAAAAU	Tradução
spe-miR5303f-2-3p	Sopen08g022350.2	3.0	19.305	1	21	389	409	AUUUUUGGAGAAUCUGACACG	UGGGUCAAAUUUCCAGAAAU	Clivagem
spe-miR5303f-2-3p	Sopen08g022350.1	3.0	19.305	1	21	392	412	AUUUUUGGAGAAUCUGACACG	UGGGUCAAAUUUCCAGAAAU	Clivagem
spe-miR5303f-2-3p	Sopen06g022100.1	3.0	18.617	1	24	1140	1163	AUUUUUGGAGAAUCUGACACGGGU	ACAAGUGUUAGAUCAUCCAAAGAU	Tradução
spe-miR5303f-3-3p	Sopen12g003610.1	0.5	14.225	1	24	584	607	AUUUUUGGAGAAUCUGACACGGGU	AUUCGUGUCAGAUUCUCCAGAAAU	Clivagem
spe-miR5303f-3-3p	Sopen04g001920.1	2.5	22.192	1	24	246	269	AUUUUUGGAGAAUCUGACACGGGU	ACCCGUCUCGGAUUCUCAAAGAU	Clivagem
spe-miR5303f-3-3p	Sopen09g004210.1	2.5	24.731	1	24	11	34	AUUUUUGGAGAAUCUGACACGGGU	ACCCGUGUUGGAUCCUCCAGAAAU	Tradução
spe-miR5303f-3-3p	Sopen05g033640.1	2.0	18.815	1	24	4793	4816	AUUUUUGGAGAAUCUGACACGGGU	ACUCGUGUCAGAUCCUUCAGAAAU	Tradução
spe-miR5303f-3-3p	Sopen01g001200.1	2.0	16.225	1	24	1044	1067	AUUUUUGGAGAAUCUGACACGGGU	AUCUGUGUCAGAUAAUCCAAAAAU	Tradução
spe-miR5303f-3-3p	Sopen08g028160.1	1.5	22.677	1	24	512	535	AUUUUUGGAGAAUCUGACACGGGU	AAUUGUGUCAGAUUCAUAAAAAU	Tradução
spe-miR5303f-3-3p	Sopen02g024930.1	3.0	5.072	1	24	18	41	AUUUUUGGAGAAUCUGACACGGGU	ACCAUUGUUAGAUUCUCCGAAAAC	Clivagem
spe-miR5303f-3-3p	Sopen02g024920.1	3.0	5.072	1	24	18	41	AUUUUUGGAGAAUCUGACACGGGU	ACCAUUGUUAGAUUCUCCGAAAAC	Clivagem
spe-miR5303f-3-3p	Sopen06g029330.1	3.0	20.62	1	23	1376	1398	AUUUUUGGAGAAUCUGACACGGG	CACGUGUUGGAUUUUCUAGAAGU	Clivagem
spe-miR5303f-3-3p	Sopen11g028290.1	3.0	17.378	1	24	495	518	AUUUUUGGAGAAUCUGACACGGGU	GCUUGUUUAGAUUCUCAA AAAAU	Clivagem
spe-miR5303f-3-3p	Sopen04g003960.1	3.0	15.208	1	22	972	993	AUUUUUGGAGAAUCUGACACGG	UUGUGUCACAUUCUCAAAGAG	Clivagem
spe-miR5303f-3-3p	Sopen10g001930.1	3.0	13.295	1	24	804	827	AUUUUUGGAGAAUCUGACACGGGU	ACCAGUGCCUGAGUCUCCAAAAAU	Clivagem
spe-miR5303f-3-3p	Sopen03g011900.1	3.0	15.22	1	22	3335	3356	AUUUUUGGAGAAUCUGACACGG	UCGAGUUAGAUCCUCAA AAAAU	Tradução
spe-miR5303f-3-3p	Sopen01g011000.1	2.5	16.594	1	20	367	386	AUUUUUGGAGAAUCUGACAC	GUGUCAGAUUUUGUGAAAAU	Clivagem
spe-miR5303f-3-3p	Sopen12g009130.1	3.0	15.266	1	24	388	411	AUUUUUGGAGAAUCUGACACGGGU	GCUAGUGUCCAUCUCCAAGAAU	Clivagem
spe-miR5303f-3-3p	Sopen11g028510.1	3.0	21.345	1	20	62	81	AUUUUUGGAGAAUCUGACAC	GUGUCACAUUCUCUAAAAGG	Clivagem

spe-miR5303f-3-3p	Sopen08g005740.1	3.0	20.577	1	20	301	320	AUUUUUGGAGAAUCUGACAC	GUGUCAGAUUUUGUUGAAAAU	Tradução
spe-miR5303f-3-3p	Sopen08g022350.2	3.0	19.305	1	21	389	409	AUUUUUGGAGAAUCUGACACG	UGGGUCAAUUUUCAGAAAAU	Clivagem
spe-miR5303f-3-3p	Sopen08g022350.1	3.0	19.305	1	21	392	412	AUUUUUGGAGAAUCUGACACG	UGGGUCAAUUUUCAGAAAAU	Clivagem
spe-miR5303f-3-3p	Sopen06g022100.1	3.0	18.617	1	24	1140	1163	AUUUUUGGAGAAUCUGACACGGGU	ACAAGUGUUAGAUGAUCCAAAGAU	Tradução
spe-miR5303h-5p	Sopen12g002770.1	1.0	15.388	1	24	4	27	AACAUUUUUGAAGAGUCUGAGCAA	UUGUUCAGAUUCUUCAGAAAUGUU	Clivagem
spe-miR5303h-5p	Sopen10g001690.1	1.0	21.355	1	24	52	75	AACAUUUUUGAAGAGUCUGAGCAA	UUGCUCAGAGUCUUCAAAAAUGUU	Clivagem
spe-miR5303h-5p	Sopen09g025700.2	1.5	20.013	1	24	133	156	AACAUUUUUGAAGAGUCUGAGCAA	UUGUUCGGACUCUUCAAAAAUGUC	Clivagem
spe-miR5303h-5p	Sopen08g028160.1	1.5	19.936	1	24	483	506	AACAUUUUUGAAGAGUCUGAGCAA	UUGUUCAGACUCUUCAAAAUAUU	Clivagem
spe-miR5303h-5p	Sopen09g004210.1	2.0	24.464	1	24	216	239	AACAUUUUUGAAGAGUCUGAGCAA	UUGCUCGGACUCUCCAGAAAUGUU	Tradução
spe-miR5303h-5p	Sopen07g012560.1	3.0	17.129	1	24	62	85	AACAUUUUUGAAGAGUCUGAGCAA	UUGCUCAGACUCUUCAAAAAAUU	Clivagem
spe-miR5303h-5p	Sopen03g005640.1	2.5	22.54	1	24	766	789	AACAUUUUUGAAGAGUCUGAGCAA	UUGCUGAGACGUUUCAAAAAUGUU	Clivagem
spe-miR5303h-5p	Sopen07g003140.1	2.5	17.56	1	24	126	149	AACAUUUUUGAAGAGUCUGAGCAA	UUACUCGGAUUUUUCAAAAAUGUC	Clivagem
spe-miR5303h-5p	Sopen10g035920.1	3.0	18.936	1	24	774	797	AACAUUUUUGAAGAGUCUGAGCAA	UGGUUCAGAUUUUUUGGAGAUUU	Clivagem
spe-miR5303h-5p	Sopen00g013020.1	2.0	16.134	1	23	486	508	AACAUUUUUGAAGAGUCUGAGCA	UAUUUAAGGCUCUUCAGAAAUGUU	Clivagem
spe-miR5303h-5p	Sopen04g018890.1	3.0	21.67	1	23	1407	1429	AACAUUUUUGAAGAGUCUGAGCA	UGAUCCGAUUCUUCAAAAGUGUG	Clivagem
spe-miR5303h-5p	Sopen00g010500.1	2.5	14.729	1	23	1263	1285	AACAUUUUUGAAGAGUCUGAGCA	UAUUUAAGGCUCUUCAUAAAUGUU	Clivagem
spe-miR5303h-5p	Sopen00g009380.1	2.5	14.494	1	23	1338	1360	AACAUUUUUGAAGAGUCUGAGCA	UAUUUAAGGCUCUUCAUAAAUGUU	Clivagem
spe-miR5303h-5p	Sopen00g010630.1	2.5	18.343	1	23	1167	1189	AACAUUUUUGAAGAGUCUGAGCA	UAUUUAAGGCACUUCAAAAAUGUU	Clivagem
spe-miR5303h-5p	Sopen00g008350.1	3.0	14.132	1	21	2885	2905	AACAUUUUUGAAGAGUCUGAG	UUAAGGCUCUUCAAAAUUGUU	Clivagem
spe-miR5303h-5p	Sopen04g034840.2	2.5	9.542	1	21	140	160	AACAUUUUUGAAGAGUCUGAG	UUCAUUCUCUUCAGAAAUGUU	Clivagem
spe-miR5303h-5p	Sopen04g034840.1	2.5	9.542	1	21	140	160	AACAUUUUUGAAGAGUCUGAG	UUCAUUCUCUUCAGAAAUGUU	Clivagem
spe-miR5303h-5p	Sopen11g029390.1	3.0	12.602	1	21	906	926	AACAUUUUUGAAGAGUCUGAG	UUCAGAAUCUUCAAAGAAGUU	Clivagem
spe-miR5303h-5p	Sopen03g016020.1	2.5	17.295	1	21	815	835	AACAUUUUUGAAGAGUCUGAG	UUAAGGCACUUCAAAAAUGUU	Clivagem
spe-miR5303h-5p	Sopen12g003610.1	3.0	17.397	1	20	591	610	AACAUUUUUGAAGAGUCUGA	UCAGAUUCUCCAGAAAUGUG	Tradução
spe-miR5303h-5p	Sopen01g041280.1	3.0	10.373	1	20	2393	2412	AACAUUUUUGAAGAGUCUGA	UCAGAAUUUUCAAAAUCUU	Clivagem
spe-miR5303h-5p	Sopen02g008790.1	3.0	13.815	1	23	369	391	AACAUUUUUGAAGAGUCUGAGCA	UAUUUAAGGCUAUUCAAAAGUGUU	Clivagem
spe-miR530-5p	Sopen09g032310.1	3.0	18.946	1	21	93	113	UCUGCAUUUGCACCUGCACCU	AGGUGCAGGUGUAAAUGCAAG	Clivagem
spe-miR530-5p	Sopen12g019330.1	2.5	22.45	1	21	2436	2455	UCUGCAUUUGCACCUGCACCU	AGGUGCAG-UGCAAAUGCAGG	Clivagem
spe-miR530-5p	Sopen04g004580.1	3.0	17.678	1	20	7	26	UCUGCAUUUGCACCUGCACC	UCUGCAGGAGCAAAUGCAGA	Clivagem
spe-miR530-5p	Sopen10g024270.1	3.0	21.974	1	21	852	872	UCUGCAUUUGCACCUGCACCU	AUGUGCAGGUCCAAGUGCAGG	Tradução
spe-miR530-5p	Sopen05g026950.1	3.0	18.064	1	21	600	620	UCUGCAUUUGCACCUGCACCU	AUGUGCAGGUCCAAGUGCAGG	Tradução
spe-miR530-5p	Sopen04g021240.1	3.0	21.215	1	21	342	362	UCUGCAUUUGCACCUGCACCU	AUGUGCAGGUCCAAGUGCAGG	Tradução
spe-miR530-5p	Sopen09g003040.1	3.0	18.255	1	21	16	36	UCUGCAUUUGCACCUGCACCU	AGGUGUAGGUGUUCAUGCAGA	Tradução
spe-miR530-5p	Sopen05g008640.1	3.0	13.501	1	20	1036	1055	UCUGCAUUUGCACCUGCACC	GGUGCAGGUUCAAUGAAGG	Tradução
spe-miR530-5p	Sopen05g002150.1	2.5	9.657	1	20	853	872	UCUGCAUUUGCACCUGCACC	GGUGAAGAUGCAGAUGCAGA	Clivagem

spe-miR530-5p	Sopen07g027220.1	2.5	18.913	1	20	763	782	UCUGCAUUUGCACCUGCACC	GGUGGAGGUGAAGAUGCAGA	Tradução
spe-miR530-5p	Sopen05g021080.1	2.5	22.038	1	21	6690	6709	UCUGCAUUUGCACCUGCACCU	GGGUGCAG-UGCAAAUGCAGG	Clivagem
spe-miR530-5p	Sopen11g017190.1	3.0	19.204	1	21	5103	5123	UCUGCAUUUGCACCUGCACCU	GGAUGCAGAUGCAGAUGCAGG	Clivagem
spe-miR530-5p	Sopen08g022800.1	3.0	15.898	1	21	3585	3605	UCUGCAUUUGCACCUGCACCU	AGGCAAAGGUGCAAAUGCAGA	Clivagem
spe-miR530-5p	Sopen01g014540.1	2.5	23.519	1	21	1431	1450	UCUGCAUUUGCACCUGCACCU	GGGUGCAG-UGCAAAUGCAGG	Clivagem
spe-miR530-5p	Sopen00g004360.1	2.5	22.279	1	21	900	919	UCUGCAUUUGCACCUGCACCU	GGGUGCAG-UGCAAAUGCAGG	Clivagem
spe-miR530-5p	Sopen01g002260.1	3.0	21.002	1	21	410	430	UCUGCAUUUGCACCUGCACCU	AGGUUCAGCAGCAAAUGCAGA	Clivagem
spe-miR530-5p	Sopen09g020450.1	3.0	14.24	1	21	208	228	UCUGCAUUUGCACCUGCACCU	GGAUGCAAGUACAAAUGCAGA	Tradução
spe-miR530-5p	Sopen08g020450.1	3.0	14.565	1	21	208	228	UCUGCAUUUGCACCUGCACCU	GGAUGCAAGUACAAAUGCAGA	Tradução
spe-miR530-5p	Sopen04g014860.2	3.0	19.887	1	21	2418	2437	UCUGCAUUUGCACCUGCACCU	GGGUGCAG-UGCUAUGCAGA	Tradução
spe-miR530-5p	Sopen04g014860.3	3.0	19.887	1	21	2418	2437	UCUGCAUUUGCACCUGCACCU	GGGUGCAG-UGCUAUGCAGA	Tradução
spe-miR530-5p	Sopen04g014860.1	3.0	19.887	1	21	2418	2437	UCUGCAUUUGCACCUGCACCU	GGGUGCAG-UGCUAUGCAGA	Tradução
spe-miR530-5p	Sopen02g013740.1	3.0	23.17	1	21	1875	1894	UCUGCAUUUGCACCUGCACCU	GGGUGCAG-UGCUAUGCAGA	Tradução
spe-miR530-5p	Sopen00g009460.1	3.0	18.724	1	21	2667	2686	UCUGCAUUUGCACCUGCACCU	GGGUGCAG-UGCUAUGCAGA	Tradução
spe-miR6024-3p	Sopen09g010980.1	2.0	19.893	1	22	445	466	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAAACAACUCUUGCCAAGA	Clivagem
spe-miR6024-3p	Sopen07g031430.1	1.5	15.864	1	21	1517	1537	UUUUAGCAAGAGUUGUUUUUCCC	GGAAAUGACUUUUGCUAAAA	Clivagem
spe-miR6024-3p	Sopen03g002750.1	2.5	22.018	1	22	2905	2926	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAGACAACUCUUGCUCAGA	Clivagem
spe-miR6024-3p	Sopen03g002750.2	2.5	22.018	1	22	2866	2887	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAGACAACUCUUGCUCAGA	Clivagem
spe-miR6024-3p	Sopen07g028980.1	2.5	23.735	1	22	394	415	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAGACAACUCUUGCAAAAG	Clivagem
spe-miR6024-3p	Sopen10g004090.1	2.0	18.615	1	22	511	532	UUUUAGCAAGAGUUGUUUUUCCC	GGCAAAACGACUCUUGCUAGAA	Clivagem
spe-miR6024-3p	Sopen05g003910.1	2.0	20.199	1	22	541	562	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAGACAACUCUUGCUAGAA	Clivagem
spe-miR6024-3p	Sopen10g022740.1	2.0	23.294	1	22	544	565	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAGACAACUCUUGCUAGAA	Clivagem
spe-miR6024-3p	Sopen05g005560.1	2.0	16.469	1	22	181	202	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAAACAGCUCUGGCUAGAA	Clivagem
spe-miR6024-3p	Sopen04g002380.1	2.5	23.705	1	22	688	709	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAGACAACUCUAGCUAGAG	Clivagem
spe-miR6024-3p	Sopen07g018200.1	2.5	20.958	1	22	1704	1725	UUUUAGCAAGAGUUGUUUUUCCC	GGGCGAACAACUCUUGCUGAAG	Clivagem
spe-miR6024-3p	Sopen05g005580.1	2.5	23.12	1	22	154	175	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAAACAGCUCUGGCUAGAA	Clivagem
spe-miR6024-3p	Sopen01g047200.1	3.0	20.929	1	22	73	94	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAGACAACUUUUGUCAAAA	Clivagem
spe-miR6024-3p	Sopen01g047220.1	3.0	18.534	1	22	73	94	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAGACAACUUUUGUCAAAA	Clivagem
spe-miR6024-3p	Sopen08g008520.1	1.5	21.654	1	20	621	640	UUUUAGCAAGAGUUGUUUUUCCC	GAAAACAACUCUUGUUGAGA	Clivagem
spe-miR6024-3p	Sopen03g039880.1	2.5	22.169	1	21	1934	1954	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAGACAACUCUUGCUGGGA	Clivagem
spe-miR6024-3p	Sopen12g025780.1	3.0	22.337	1	22	1764	1785	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACAACUCUUGCUGAAG	Clivagem
spe-miR6024-3p	Sopen05g001340.1	3.0	19.981	1	22	1663	1684	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAGACAACUCUUGCUAACA	Clivagem
spe-miR6024-3p	Sopen06g021930.1	2.5	22.338	1	22	610	631	UUUUAGCAAGAGUUGUUUUUCCC	GGAAAACCACUCUUGCUAGAA	Clivagem
spe-miR6024-3p	Sopen01g034260.1	2.5	20.565	1	22	490	511	UUUUAGCAAGAGUUGUUUUUCCC	GGCAAAACGACUCUCGCUAAAA	Clivagem
spe-miR6024-3p	Sopen08g022900.1	2.5	15.518	1	22	478	499	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAAACAACACUCGCUAGAA	Tradução

spe-miR6024-3p	Sopen09g035210.1	3.0	15.347	1	22	448	469	UUUUAGCAAGAGUUGUUUUUCCC	GGAAAAACAACUCUUGCCAAGA	Clivagem
spe-miR6024-3p	Sopen12g001930.1	3.0	15.228	1	22	556	577	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAAACAACUCUUGCGAAGA	Clivagem
spe-miR6024-3p	Sopen11g027730.1	2.5	19.856	1	22	298	319	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAAACCACUCUUGCUAAGA	Clivagem
spe-miR6024-3p	Sopen10g021980.1	3.0	19.514	1	22	1950	1971	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACA AUUCUUGCUGAAG	Clivagem
spe-miR6024-3p	Sopen09g016280.1	2.5	14.678	1	22	496	517	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAAACAACACUUGCUAAAAG	Tradução
spe-miR6024-3p	Sopen11g020860.1	2.5	19.752	1	22	541	562	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAAACAACACUUGCUAAAAG	Tradução
spe-miR6024-3p	Sopen09g026580.1	3.0	15.605	1	21	122	142	UUUUAGCAAGAGUUGUUUUUCCC	GGAGAACAACUCUUGAUGGAA	Clivagem
spe-miR6024-3p	Sopen11g012250.1	3.0	22.798	1	22	7365	7386	UUUUAGCAAGAGUUGUUUUUCCC	GGGUAAAACAAGUCUUGCUGAAG	Clivagem
spe-miR6024-3p	Sopen09g019400.1	3.0	14.534	1	22	3432	3453	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACAAGUCUUGCUAAAAG	Clivagem
spe-miR6024-3p	Sopen05g022860.2	3.0	19.466	1	22	4482	4503	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACAAGUCUUGCUAAAAG	Clivagem
spe-miR6024-3p	Sopen03g024560.1	3.0	17.332	1	22	4437	4458	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACAAGUCUUGCUAAAAG	Clivagem
spe-miR6024-3p	Sopen12g018930.1	3.0	22.654	1	22	4329	4350	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACAAGUCUUGCUGAAA	Clivagem
spe-miR6024-3p	Sopen11g029660.1	3.0	22.925	1	22	613	634	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAGACAACACUUGCUAAAAG	Tradução
spe-miR6024-3p	Sopen01g007280.1	3.0	22.041	1	22	3378	3399	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACAAGUCUUGCUAAAAG	Clivagem
spe-miR6024-3p	Sopen09g036080.1	3.0	19.336	1	22	1702	1723	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAAACGACAAUUGCUAGAA	Tradução
spe-miR6024-3p	Sopen11g029090.1	3.0	22.432	1	22	637	658	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAGACAACACUUGCUAAAAG	Tradução
spe-miR6024-3p	Sopen01g028960.1	3.0	18.474	1	22	853	874	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAGACAACACUUGCUGAAA	Tradução
spe-miR6024-3p	Sopen03g007080.1	3.0	21.473	1	22	3024	3045	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACAAGUCUUGCUAAAAG	Clivagem
spe-miR6024-3p	Sopen02g010850.1	3.0	24.874	1	22	2181	2202	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACAAGUCUUGCUAAAAG	Clivagem
spe-miR6024-3p	Sopen11g029100.2	3.0	16.959	1	22	13	34	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAGACAACACUUGCUAAAAG	Tradução
spe-miR6024-3p	Sopen10g015850.1	3.0	19.767	1	22	2871	2892	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACAAGUCUUGCUAAAAG	Clivagem
spe-miR6024-3p	Sopen04g019590.1	3.0	22.214	1	22	2535	2556	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACAAGUCUUGCUAAAAG	Clivagem
spe-miR6024-3p	Sopen01g022010.1	3.0	19.636	1	22	2883	2904	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACAAGUCUUGCUGAAA	Clivagem
spe-miR6024-3p	Sopen04g013920.1	3.0	20.412	1	22	2007	2028	UUUUAGCAAGAGUUGUUUUUCCC	GGGUAAAACAAGUCUUGCUGAAG	Clivagem
spe-miR6024-3p	Sopen10g004080.1	3.0	17.7	1	22	565	586	UUUUAGCAAGAGUUGUUUUUCCC	GGAAAGACAACUUUAGCUAAAA	Clivagem
spe-miR6024-3p	Sopen08g015940.1	3.0	19.816	1	22	2190	2211	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACAAGUCUUGCUAAAAG	Clivagem
spe-miR6024-3p	Sopen11g028680.1	3.0	24.421	1	22	553	574	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAGACAACACUUGCUAAAAG	Tradução
spe-miR6024-3p	Sopen04g014990.1	3.0	22.107	1	22	1881	1902	UUUUAGCAAGAGUUGUUUUUCCC	GGGUGAACAAGUCUUGCUGAAA	Clivagem
spe-miR6024-3p	Sopen09g036040.1	3.0	19.463	1	22	1738	1759	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAAACGACAGUUGCUAGAA	Tradução
spe-miR6024-3p	Sopen05g005550.1	3.0	21.018	1	22	151	172	UUUUAGCAAGAGUUGUUUUUCCC	GGCAAAAACAACUUUGGCUAGAA	Clivagem
spe-miR6024-3p	Sopen11g024570.1	3.0	23.183	1	22	442	463	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAGACAACACUUGCUAAAAG	Tradução
spe-miR6024-3p	Sopen08g003590.1	3.0	20.309	1	22	637	658	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAGACAACACUUGCUAAAAG	Tradução
spe-miR6024-3p	Sopen11g025550.1	3.0	20.334	1	22	610	631	UUUUAGCAAGAGUUGUUUUUCCC	GGUAAGACAACACUUGCUAAAAG	Tradução
spe-miR6024-3p	Sopen09g028110.1	3.0	16.495	1	22	196	217	UUUUAGCAAGAGUUGUUUUUCCC	GGGAAAACGACAAUUGCUAGAA	Tradução
spe-miR6024-3p	Sopen01g010930.1	3.0	22.162	1	21	1714	1734	UUUUAGCAAGAGUUGUUUUUCCC	GGGGAACAAGUCUUGCUGAAG	Clivagem

spe-miR6024-5p	Sopen08g023150.1	3.0	13.11	1	22	4227	4248	AGAAACAACACUUGCUGAAAGGA	UCCAUAAGCAGUGGUGUUUCU	Clivagem
spe-miR6024-5p	Sopen08g023150.2	3.0	13.11	1	22	3705	3726	AGAAACAACACUUGCUGAAAGGA	UCCAUAAGCAGUGGUGUUUCU	Clivagem
spe-miR6024-5p	Sopen03g006180.1	3.0	19.919	1	21	130	150	AGAAACAACACUUGCUGAAAGG	CCUUUUGCAGGUGGUGUUUUU	Clivagem
spe-miR6024-5p	Sopen07g007280.1	3.0	15.005	1	20	3485	3504	AGAAACAACACUUGCUGAAAG	CUUUGGCAAGUCUUGUUUUUA	Tradução
spe-miR6024-5p	Sopen08g004960.1	2.5	23.873	1	22	744	765	AGAAACAACACUUGCUGAAAGGA	UACUUCACUAAGUGUUGUUUCU	Clivagem
spe-miR6024-5p	Sopen11g025280.1	3.0	19.309	1	20	662	681	AGAAACAACACUUGCUGAAAG	UUGUAGCAAGUGUUGUUGCU	Clivagem
spe-miR6024-5p	Sopen10g002650.1	3.0	17.1	1	20	995	1014	AGAAACAACACUUGCUGAAAG	CUUUGGCAAGUGCUAUUUUCU	Clivagem
spe-miR6024-5p	Sopen04g036620.3	3.0	17.698	1	20	443	462	AGAAACAACACUUGCUGAAAG	CUUUAGCUGGUGUUGCUUCU	Clivagem
spe-miR6024-5p	Sopen07g030770.1	3.0	18.317	1	19	492	511	AGAAACAA-CACUUGCUGAAA	CUUAGCAAGUGGUUGUUUCU	Tradução
spe-miR6024-5p	Sopen08g030430.1	3.0	20.907	1	22	693	714	AGAAACAACACUUGCUGAAAGGA	UGCUAUUGCAAGUUUUGUUUCU	Tradução
spe-miR6027-3p	Sopen11g027730.1	2.0	14.204	1	22	1036	1057	UGAAUCCUUCGGCUAUCCAUA	UUAUGGAUUGCUGAAGGAUUUA	Clivagem
spe-miR6027-3p	Sopen04g003320.1	2.5	20.957	1	22	1828	1849	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUGGCCGAAGGGUUUG	Clivagem
spe-miR6027-3p	Sopen04g003290.1	2.5	20.957	1	22	2413	2434	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUGGCCGAAGGGUUUG	Clivagem
spe-miR6027-3p	Sopen09g036080.1	2.0	16.602	1	22	2419	2440	UGAAUCCUUCGGCUAUCCAUA	UUAUGGAUUGCUGAAGGAUUCG	Clivagem
spe-miR6027-3p	Sopen02g006820.1	3.0	14.236	1	22	823	844	UGAAUCCUUCGGCUAUCCAUA	UUAUGGAUGGCUGAGGGGUUCC	Clivagem
spe-miR6027-3p	Sopen02g009360.1	3.0	14.348	1	22	1285	1306	UGAAUCCUUCGGCUAUCCAUA	UUAUGGAUGGCUGAGGGGUUCC	Clivagem
spe-miR6027-3p	Sopen04g004290.1	3.0	24.193	1	22	657	678	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUGGCUGAAGGGUUUG	Clivagem
spe-miR6027-3p	Sopen05g005440.1	2.0	19.91	1	22	1102	1123	UGAAUCCUUCGGCUAUCCAUA	UUAUGGAUCGCGGAAGGAUUA	Tradução
spe-miR6027-3p	Sopen05g008040.1	3.0	14.001	1	22	4084	4105	UGAAUCCUUCGGCUAUCCAUA	UUGUGGGUAGCUGAAGGGUUUG	Clivagem
spe-miR6027-3p	Sopen04g002150.1	3.0	24.887	1	22	1189	1210	UGAAUCCUUCGGCUAUCCAUA	UUAUGGAUCGCUGAAGGUUUA	Clivagem
spe-miR6027-3p	Sopen10g017600.1	2.5	18.057	1	22	1285	1306	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUUGCGGAAGGAUUA	Tradução
spe-miR6027-3p	Sopen05g007710.1	3.0	22.749	1	22	3226	3247	UGAAUCCUUCGGCUAUCCAUA	UUGUGGAUAGCGGAAGGCUUA	Tradução
spe-miR6027-3p	Sopen01g034940.1	2.5	15.717	1	21	1328	1348	UGAAUCCUUCGGCUAUCCAUA	UAUGGAUGGCAGAAGGAUUUG	Tradução
spe-miR6027-3p	Sopen08g004640.1	2.5	19.359	1	22	892	913	UGAAUCCUUCGGCUAUCCAUA	UGGUGGAUAGCCGAGGGUUUG	Clivagem
spe-miR6027-3p	Sopen01g036220.1	3.0	23.561	1	22	1291	1312	UGAAUCCUUCGGCUAUCCAUA	UUAUGGAUCGCGGAAGGGUUUA	Tradução
spe-miR6027-3p	Sopen09g036030.1	3.0	17.653	1	21	191	211	UGAAUCCUUCGGCUAUCCAUA	UAUGGAUUGCGGAAGGAUUUG	Tradução
spe-miR6027-3p	Sopen07g026570.1	2.5	15.699	1	22	1339	1360	UGAAUCCUUCGGCUAUCCAUA	UGGUGGAUAGGAGAAGGAUUA	Tradução
spe-miR6027-3p	Sopen11g016660.1	3.0	16.778	1	20	405	424	UGAAUCCUUCGGCUAUCCAUA	AAGGAUAGUUGAAGGGUUUA	Clivagem
spe-miR6027-3p	Sopen01g051090.1	3.0	16.531	1	20	1237	1257	UGAAUCCUUCGGCUA-UCCAUA	AUGGAUUGCCGGAGGAUUA	Clivagem
spe-miR6027-3p	Sopen06g022100.1	3.0	13.066	1	20	1928	1947	UGAAUCCUUCGGCUAUCCAUA	AUGGAAGGUGGAAGGAUUA	Tradução
spe-miR6027-5p	Sopen03g013960.1	2.5	14.202	1	22	1377	1398	AUGGGUAGCACAAGGAUUAUUG	UAUUGAUUCUAGUGCUACUCAU	Clivagem
spe-miR6027-5p	Sopen03g003010.1	3.0	22.159	1	22	488	509	AUGGGUAGCACAAGGAUUAUUG	CAUUAGCCUUUGUGUUGCCCAU	Clivagem
spe-miR6027-5p	Sopen10g019830.1	2.5	12.892	1	22	297	318	AUGGGUAGCACAAGGAUUAUUG	UAUUGAUUCUAGUGCUACUCAU	Clivagem
spe-miR6027-5p	Sopen07g024420.1	3.0	16.368	1	20	437	456	AUGGGUAGCACAAGGAUUAUUG	AUGAUCCUUGUGUUAUUAUUA	Clivagem
spe-miR6027-5p	Sopen11g021040.1	3.0	15.315	1	22	1200	1221	AUGGGUAGCACAAGGAUUAUUG	UGUUGAUACUGGUGCUACUCAU	Clivagem

spe-miR6027-5p	Sopen12g016830.1	3.0	17.472	1	21	1042	1062	AUGGGUAGCACAAGGAUUAU	GUUGAUACUGGUCUACUCAU	Clivagem
spe-miR6027-5p	Sopen08g010470.1	3.0	17.556	1	21	1105	1125	AUGGGUAGCACAAGGAUUAU	GUUGAUACUGGUCUACUCAU	Clivagem
spe-miR6027-5p	Sopen07g004430.1	3.0	15.217	1	20	1445	1464	AUGGGUAGCACAAGGAUUAU	UUAUACUUCUGCUGCCUUAU	Tradução
spe-miR6027-5p	Sopen08g001980.1	3.0	12.254	1	22	165	186	AUGGGUAGCACAAGGAUUAU	CCUUAUCCAUGCCCUACCCAU	Tradução
spe-miR6144-5p	Sopen12g016080.1	2.5	12.824	1	21	2783	2803	UGGCAACUUCUUAUCAUGUU	AUUUAUGAAGAAGUUGCUG	Clivagem
spe-miR6144-5p	Sopen12g025210.1	3.0	22.326	1	21	194	214	UGGCAACUUCUUAUCAUGUU	AACAUGAUGAAGAAGUAGACA	Clivagem
spe-miR6144-5p	Sopen10g015210.1	2.5	19.607	1	20	365	384	UGGCAACUUCUUAUCAUGU	CAAUGAUGGAGAAGUUGCCA	Clivagem
spe-miR6144-5p	Sopen11g016740.1	2.5	10.991	1	21	29	49	UGGCAACUUCUUAUCAUGUU	GACAUGAUGAAGAGAUUGCUA	Clivagem
spe-miR6144-5p	Sopen12g004630.1	2.5	15.043	1	20	2295	2314	UGGCAACUUCUUAUCAUGU	AUAUGGUGAAGAAGCUGCCA	Clivagem
spe-miR6144-5p	Sopen04g001510.1	3.0	21.752	1	21	752	772	UGGCAACUUCUUAUCAUGUU	AGCAUGAGGAGGAAGUUGCCC	Clivagem
spe-miR6144-5p	Sopen01g035540.1	2.5	15.69	1	21	4075	4095	UGGCAACUUCUUAUCAUGUU	GAUAUGUUGGAGAAGUUGUCA	Clivagem
spe-miR6144-5p	Sopen02g003680.1	2.5	22.445	1	21	29	49	UGGCAACUUCUUAUCAUGUU	AACUUGAAGAGGAAGUUGCCA	Clivagem
spe-miR6144-5p	Sopen06g022700.1	3.0	14.108	1	20	1263	1282	UGGCAACUUCUUAUCAUGU	CUAUGGUGAGGAAGUUGUCA	Clivagem
spe-miR6144-5p	Sopen05g007060.1	2.5	22.813	1	20	183	202	UGGCAACUUCUUAUCAUGU	AGAUGAUGAAGAAGUUUCCA	Clivagem
spe-miR6144-5p	Sopen05g007060.2	2.5	22.837	1	20	183	202	UGGCAACUUCUUAUCAUGU	AGAUGAUGAAGAAGUUUCCA	Clivagem
spe-miR6144-5p	Sopen07g033530.1	3.0	14.42	1	21	586	606	UGGCAACUUCUUAUCAUGUU	GACCUGAUGAAGAAGUUGUUU	Clivagem
spe-miR6144-5p	Sopen12g026510.1	3.0	19.94	1	21	184	204	UGGCAACUUCUUAUCAUGUU	GACUUGAUGAAGAGAUUGCCA	Clivagem
spe-miR6144-5p	Sopen03g037090.1	3.0	12.052	1	21	1571	1591	UGGCAACUUCUUAUCAUGUU	AACAAUAGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen03g012810.1	3.0	21.23	1	21	29	49	UGGCAACUUCUUAUCAUGUU	GACUUGAUGAAGAGAUUGCCA	Clivagem
spe-miR6144-5p	Sopen01g019240.1	3.0	22.286	1	21	29	49	UGGCAACUUCUUAUCAUGUU	GACUUGAUGAAGAGAUUGCCA	Clivagem
spe-miR6144-5p	Sopen09g028160.1	3.0	12.582	1	21	89	109	UGGCAACUUCUUAUCAUGUU	AGAAUGGAGAAGAAGUUGCCA	Clivagem
spe-miR6144-5p	Sopen06g035240.1	3.0	11.448	1	21	89	109	UGGCAACUUCUUAUCAUGUU	AAAUGGAGAAGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen06g003170.1	3.0	14.8	1	21	89	109	UGGCAACUUCUUAUCAUGUU	AGAAUGGAGAAGAAGUUGCCA	Clivagem
spe-miR6144-5p	Sopen05g002860.1	3.0	22.77	1	21	968	988	UGGCAACUUCUUAUCAUGUU	GACAUGAGGGAGAAGUUGUUG	Clivagem
spe-miR6144-5p	Sopen11g013090.1	3.0	19.808	1	21	29	49	UGGCAACUUCUUAUCAUGUU	GACUUGAUGAAGAGAUUGCCA	Clivagem
spe-miR6144-5p	Sopen04g011650.1	3.0	15.94	1	21	29	49	UGGCAACUUCUUAUCAUGUU	GACUUGAUGAAGAGAUUGCCA	Clivagem
spe-miR6144-5p	Sopen04g014180.1	3.0	20.664	1	21	29	49	UGGCAACUUCUUAUCAUGUU	GACAUGAAGAAGAGAUUGCCA	Clivagem
spe-miR6144-5p	Sopen12g001030.1	2.5	18.037	1	21	469	489	UGGCAACUUCUUAUCAUGUU	GAGGUGAUAAAGAAGUUGCCA	Clivagem
spe-miR6144-5p	Sopen09g021340.1	2.5	18.85	1	21	29	49	UGGCAACUUCUUAUCAUGUU	GACUUGAGGAAGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen05g020270.1	3.0	17.719	1	21	29	49	UGGCAACUUCUUAUCAUGUU	GACUUGAUGAAGAGAUUGCCA	Clivagem
spe-miR6144-5p	Sopen07g007910.1	3.0	16.375	1	21	29	49	UGGCAACUUCUUAUCAUGUU	GACUUGAUGAAGAAUUGCCG	Clivagem
spe-miR6144-5p	Sopen11g013180.1	3.0	18.343	1	21	29	49	UGGCAACUUCUUAUCAUGUU	GACUUGAUGAAGAGAUUGCCA	Clivagem
spe-miR6144-5p	Sopen10g012790.1	3.0	15.895	1	20	2076	2095	UGGCAACUUCUUAUCAUGU	ACUUGAUGAAGAGAUUGCCA	Clivagem
spe-miR6144-5p	Sopen11g029090.1	2.5	11.019	1	20	1772	1791	UGGCAACUUCUUAUCAUGU	ACAAGAUUAAGGAGUUGCCA	Clivagem
spe-miR6144-5p	Sopen07g017340.1	3.0	18.515	1	20	341	360	UGGCAACUUCUUAUCAUGU	ACAUGAGGAGGAAUUGCCA	Clivagem

spe-miR6144-5p	Sopen12g007960.1	3.0	19.106	1	20	114	133	UGGCAACUUCUUCAUCAUGU	GUGUGAUGUGGAAGUUGCCA	Clivagem
spe-miR6144-5p	Sopen05g015100.1	3.0	24.525	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen03g012930.1	3.0	21.681	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen09g012740.1	3.0	18.155	1	21	1280	1300	UGGCAACUUCUUCAUCAUGUU	GACCAGAUGAAGAAGUUGCUG	Clivagem
spe-miR6144-5p	Sopen04g028870.1	2.5	9.956	1	21	2538	2557	UGGCAACUUCUUCAUCAUGUU	GACA-GAUGAAGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen02g001940.1	3.0	24.813	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAAGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen10g017730.1	3.0	23.737	1	21	13	33	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen02g038660.1	3.0	11.928	1	21	1885	1905	UGGCAACUUCUUCAUCAUGUU	GAAAUUGUGAAGAAGUUGUCA	Clivagem
spe-miR6144-5p	Sopen09g017300.1	3.0	23.201	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen07g015060.1	3.0	23.098	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen02g001250.1	3.0	22.022	1	21	11	31	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen09g020480.1	3.0	21.246	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen01g032490.1	3.0	18.762	1	21	61	81	UGGCAACUUCUUCAUCAUGUU	GACAAGAAGAAGAGGUUGUCA	Clivagem
spe-miR6144-5p	Sopen06g005710.1	3.0	23.755	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen05g012970.1	3.0	19.642	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAAGAAGUUGUUA	Clivagem
spe-miR6144-5p	Sopen03g012980.1	3.0	23.602	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen06g007310.1	3.0	21.036	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen01g019190.1	3.0	20.735	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAAGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen06g005700.1	3.0	15.507	1	21	56	76	UGGCAACUUCUUCAUCAUGUU	GACAUGAAGAGAAAGUUGCUA	Tradução
spe-miR6144-5p	Sopen09g011610.1	3.0	24.874	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen09g016380.1	3.0	23.273	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen04g016950.1	3.0	24.237	1	21	476	496	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6144-5p	Sopen05g023680.1	3.0	22.086	1	21	29	49	UGGCAACUUCUUCAUCAUGUU	GACUUGAGGAGGAAGUUGCUA	Clivagem
spe-miR6440b-5p	Sopen05g019530.1	2.5	16.629	1	20	668	687	GAGUUUGAUCAAUUUCGAGU	CCUUGAAAUUGGUUAAACUC	Clivagem
spe-miR6440b-5p	Sopen02g032330.1	2.5	15.422	1	21	1373	1393	GAGUUUGAUCAAUUUCGAGUU	GAGUUGAAAUUGAUCAAGUUC	Clivagem
spe-miR6440b-5p	Sopen11g023890.1	3.0	12.895	1	21	3116	3136	GAGUUUGAUCAAUUUCGAGUU	GAAUUGAAAUUGAUCAAGCUA	Clivagem
spe-miR6440b-5p	Sopen11g023890.2	3.0	12.895	1	21	3116	3136	GAGUUUGAUCAAUUUCGAGUU	GAAUUGAAAUUGAUCAAGCUA	Clivagem
spe-miR6440b-5p	Sopen06g034360.1	3.0	18.648	1	20	492	511	GAGUUUGAUCAAUUUCGAGU	AUUUGAAGUUGAUCCAACUC	Clivagem
spe-miR6440b-5p	Sopen10g033130.1	3.0	15.889	1	21	650	670	GAGUUUGAUCAAUUUCGAGUU	AACUCGGACUUGUUAAGCUC	Tradução
spe-miR6440b-5p	Sopen10g030380.1	3.0	17.802	1	21	799	819	GAGUUUGAUCAAUUUCGAGUU	GACGUGGAAUUGGUCAAACUU	Clivagem
spe-miR6440b-5p	Sopen09g002530.1	3.0	10.726	1	21	334	354	GAGUUUGAUCAAUUUCGAGUU	AAAUUGGAACUGAUCAAUUC	Clivagem
spe-miR6440b-5p	Sopen05g014850.1	3.0	18.68	1	21	25	45	GAGUUUGAUCAAUUUCGAGUU	GACUUGGAAUUGAUCAAACUU	Tradução
spe-miR6440b-5p	Sopen11g021920.1	3.0	15.789	1	20	2043	2062	GAGUUUGAUCAAUUUCGAGU	UCUCGAAAUUGAACAAGUUC	Clivagem
spe-miR6440b-5p	Sopen03g012620.1	3.0	18.857	1	20	443	462	GAGUUUGAUCAAUUUCGAGU	CCUUGAAAUUCAUUAAACUC	Tradução
spe-miR6440b-5p	Sopen03g020560.1	3.0	17.311	1	20	497	516	GAGUUUGAUCAAUUUCGAGU	CCUUGAAAUUCAUUAAACUC	Tradução

spe-miR6440b-5p	Sopen11g006170.1	2.5	12.977	1	20	883	902	GAGUUUGAUCAAUUUCGAGU	ACUGGAAAUAGAUCAAACUU	Tradução
spe-miR6440b-5p	Sopen09g028050.2	2.5	12.977	1	20	883	902	GAGUUUGAUCAAUUUCGAGU	ACUGGAAAUAGAUCAAACUU	Tradução
spe-miR6440b-5p	Sopen09g028050.1	2.5	12.977	1	20	883	902	GAGUUUGAUCAAUUUCGAGU	ACUGGAAAUAGAUCAAACUU	Tradução
spe-miR6440b-5p	Sopen03g011500.1	3.0	19.121	1	20	579	598	GAGUUUGAUCAAUUUCGAGU	GUUUGAACUUGAUCAAAUUC	Clivagem
spe-miR6440b-5p	Sopen01g020020.1	3.0	13.633	1	21	4256	4276	GAGUUUGAUCAAUUUCGAGUU	GACUCAAUUUGAACAAAGUUC	Clivagem
spe-miR6440b-5p	Sopen01g020020.2	3.0	13.633	1	21	3626	3646	GAGUUUGAUCAAUUUCGAGUU	GACUCAAUUUGAACAAAGUUC	Clivagem
spe-miR6440b-5p	Sopen05g033350.1	3.0	8.927	1	21	567	587	GAGUUUGAUCAAUUUCGAGUU	ACCACGAAUUUAUCAACUC	Tradução
spe-miR6440b-5p	Sopen09g016290.1	3.0	17.816	1	21	1664	1684	GAGUUUGAUCAAUUUCGAGUU	AACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen04g016330.1	3.0	17.785	1	20	153	172	GAGUUUGAUCAAUUUCGAGU	ACUUGAAUCUAUCAAGCUC	Tradução
spe-miR6440b-5p	Sopen11g007530.1	3.0	19.345	1	20	1032	1051	GAGUUUGAUCAAUUUCGAGU	ACUCGCAAGUGAUCAGAUUC	Clivagem
spe-miR6440b-5p	Sopen01g050540.1	3.0	10.324	1	20	759	778	GAGUUUGAUCAAUUUCGAGU	ACUUGAAUCUGAUCAGCUC	Clivagem
spe-miR6440b-5p	Sopen12g017390.1	3.0	17.393	1	21	3263	3283	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen10g004600.1	3.0	18.497	1	21	2873	2893	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen05g028230.1	3.0	18.911	1	21	3512	3532	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen03g018850.1	3.0	19.14	1	21	3200	3220	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen08g019160.1	3.0	18.484	1	21	2522	2542	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen06g021660.1	3.0	18.497	1	21	1670	1690	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen05g028840.1	3.0	18.826	1	21	2576	2596	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen01g022910.1	3.0	18.579	1	21	2228	2248	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen11g021000.1	3.0	18.497	1	21	2261	2281	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen09g008710.1	3.0	20.788	1	21	1448	1468	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen10g005290.1	3.0	18.939	1	21	2219	2239	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen07g028550.1	3.0	19.276	1	21	3518	3538	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen11g023520.1	3.0	19.276	1	21	3518	3538	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen07g026830.1	3.0	19.276	1	21	3518	3538	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen09g007200.1	3.0	16.891	1	21	2141	2161	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen12g020400.1	3.0	18.579	1	21	1871	1891	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen03g029110.1	3.0	19.276	1	21	2966	2986	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen08g018520.1	3.0	15.423	1	21	1517	1537	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAACCAAACUC	Tradução
spe-miR6440b-5p	Sopen06g017710.1	3.0	19.183	1	21	1463	1483	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen10g011970.1	3.0	13.945	1	21	1985	2005	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAACCAAACUC	Tradução
spe-miR6440b-5p	Sopen11g023550.2	3.0	18.497	1	21	1670	1690	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen10g024000.1	3.0	11.739	1	21	1466	1486	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAACCAAACUC	Tradução
spe-miR6440b-5p	Sopen05g025160.1	3.0	18.356	1	21	926	946	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen01g015950.1	3.0	7.924	1	21	1577	1597	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAUUUAACCAAACUC	Tradução

spe-miR6440b-5p	Sopen01g021600.1	3.0	16.776	1	21	2312	2332	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen11g023550.1	3.0	18.497	1	21	1331	1351	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen12g020770.1	3.0	17.074	1	21	1448	1468	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen04g029560.1	3.0	16.351	1	21	623	643	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen05g026920.1	3.0	20.896	1	21	1607	1627	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAACCAAACUC	Tradução
spe-miR6440b-5p	Sopen09g019330.1	3.0	18.588	1	21	395	415	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen05g008810.1	3.0	16.203	1	21	647	667	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen03g008070.1	3.0	15.372	1	21	1301	1321	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAACCAAACUC	Tradução
spe-miR6440b-5p	Sopen00g008030.1	3.0	16.21	1	21	29	49	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen03g021090.1	3.0	18.497	1	21	647	667	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen00g010870.1	3.0	18.494	1	21	134	154	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAAGCAAACUC	Tradução
spe-miR6440b-5p	Sopen10g020750.2	3.0	17.0	1	21	53	73	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAACCAAACUC	Tradução
spe-miR6440b-5p	Sopen10g007130.1	3.0	16.641	1	21	53	73	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAACCAAACUC	Tradução
spe-miR6440b-5p	Sopen03g008070.2	3.0	15.372	1	21	422	442	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAACCAAACUC	Tradução
spe-miR6440b-5p	Sopen01g005680.1	3.0	6.988	1	21	35	55	GAGUUUGAUCAAUUUCGAGUU	GACUCCAAAUUAACCAAACUC	Tradução
spe-miR6478-5p	Sopen05g017220.1	3.0	15.715	1	21	122	142	CCGACCUUAGCUCAGUUGGUA	UGACAACUGAGUUAGGGUUGG	Clivagem
spe-miR6478-5p	Sopen03g008330.1	3.0	15.982	1	21	629	649	CCGACCUUAGCUCAGUUGGUA	UGCAGAUCUGAGCUUAGGUUGG	Clivagem
spe-miR7696c-3p	Sopen05g033780.1	3.0	12.159	1	20	1007	1026	UUUUGAAUUAUGAGUACUUG	CAAGUAUUCUAGUUUGGAG	Clivagem
spe-miR7696c-3p	Sopen05g033780.3	3.0	12.159	1	20	1007	1026	UUUUGAAUUAUGAGUACUUG	CAAGUAUUCUAGUUUGGAG	Clivagem
spe-miR7696c-3p	Sopen05g033780.2	3.0	12.159	1	20	1007	1026	UUUUGAAUUAUGAGUACUUG	CAAGUAUUCUAGUUUGGAG	Clivagem
spe-miR7696c-3p	Sopen05g010470.1	2.5	16.149	1	20	1331	1350	UUUUGAAUUAUGAGUACUUG	CCAGUACUCGUAUUCAGA	Clivagem
spe-miR7696c-3p	Sopen10g028650.1	3.0	10.275	1	21	104	124	UUUUGAAUUAUGAGUACUUGA	UCAAGUACUCAAGUUUCAAGA	Tradução
spe-miR7696c-3p	Sopen11g028070.1	3.0	10.15	1	20	272	291	UUUUGAAUUAUGAGUACUUG	CUAGUACUUGUAUUCAGA	Clivagem
spe-miR7696c-3p	Sopen12g032830.1	3.0	9.417	1	20	1645	1664	UUUUGAAUUAUGAGUACUUG	CAAAUACUCAUAAUUCAGA	Clivagem
spe-miR7696c-3p	Sopen03g009490.1	3.0	19.539	1	20	2363	2382	UUUUGAAUUAUGAGUACUUG	CAGGUGCUCUAAUUCAGGA	Tradução
spe-miR7696c-3p	Sopen11g001480.1	3.0	6.505	1	20	40	59	UUUUGAAUUAUGAGUACUUG	CAAUUAAUUGUAAUUCAAAA	Clivagem
spe-miR7696c-3p	Sopen02g022290.2	3.0	20.241	1	20	695	714	UUUUGAAUUAUGAGUACUUG	UAAGUACUACUAAUUCAAAG	Tradução
spe-miR7696c-3p	Sopen02g022290.1	3.0	20.241	1	20	698	717	UUUUGAAUUAUGAGUACUUG	UAAGUACUACUAAUUCAAAG	Tradução
spe-miR7696c-3p	Sopen04g022100.1	3.0	9.615	1	20	437	456	UUUUGAAUUAUGAGUACUUG	UAACUACUUAUUUUCAAAA	Tradução
spe-miR7696c-3p	Sopen10g022900.1	3.0	23.615	1	20	71	90	UUUUGAAUUAUGAGUACUUG	CCAGUGCUCUACUUCAGAA	Clivagem
spe-miR7696c-3p	Sopen10g025530.1	3.0	15.867	1	20	455	474	UUUUGAAUUAUGAGUACUUG	UAACUACUUAUUUUCAAAA	Tradução
spe-miR7696c-3p	Sopen05g030290.1	3.0	15.867	1	20	440	459	UUUUGAAUUAUGAGUACUUG	UAACUACUUAUUUUCAAAA	Tradução
spe-miR7696c-3p	Sopen12g001410.1	3.0	16.212	1	20	443	462	UUUUGAAUUAUGAGUACUUG	UAACUACUUAUUUUCAAAA	Tradução
spe-miR7980b-1-5p	Sopen01g039780.1	2.5	13.569	1	24	2221	2245	GAGAUGGAUUCAGUGU-UUGGACAU	AUUUUCAAUACUGAUUUCAUCUC	Clivagem
spe-miR7980b-1-5p	Sopen07g023160.1	2.5	15.553	1	21	597	617	GAGAUGGAUUCAGUGUUUGGA	UGCAGAUGCUGAUUCCAUCUC	Clivagem

spe-miR7980b-1-5p	Sopen05g022670.1	2.5	16.038	1	21	9	29	GAGAUGGAAUCAGUGUUUGGA	UUCAAGCAGUGAUUCCAUUUC	Clivagem
spe-miR7980b-1-5p	Sopen11g024970.1	3.0	19.259	1	21	1854	1874	GAGAUGGAAUCAGUGUUUGGA	UCCAGACACGGAUUCUGUCUU	Clivagem
spe-miR7980b-1-5p	Sopen01g040280.1	3.0	15.58	1	21	196	216	GAGAUGGAAUCAGUGUUUGGA	UCCGAACAUCGGUCCAUUUC	Clivagem
spe-miR7980b-1-5p	Sopen09g005560.1	2.5	16.09	1	20	3798	3817	GAGAUGGAAUCAGUGUUUGG	UCAAGAACUGAUUUCAUCUC	Clivagem
spe-miR7980b-1-5p	Sopen09g005560.2	2.5	16.09	1	20	3771	3790	GAGAUGGAAUCAGUGUUUGG	UCAAGAACUGAUUUCAUCUC	Clivagem
spe-miR7980b-1-5p	Sopen05g005910.1	2.5	21.82	1	20	1084	1103	GAGAUGGAAUCAGUGUUUGG	CCAAAUUCUGAUUCCGUCUU	Clivagem
spe-miR7980b-1-5p	Sopen01g028370.1	3.0	9.745	1	20	103	122	GAGAUGGAAUCAGUGUUUGG	GCAAUUACUGAUUUCAUCUC	Clivagem
spe-miR7980b-1-5p	Sopen10g030460.1	3.0	15.591	1	20	1402	1421	GAGAUGGAAUCAGUGUUUGG	UCAAAAAGUGAUUUCUUCUC	Clivagem
spe-miR7980b-1-5p	Sopen11g015610.1	3.0	9.809	1	20	496	515	GAGAUGGAAUCAGUGUUUGG	CCAAAUACAAAUCCAUUUC	Tradução
spe-miR7980b-2-5p	Sopen01g039780.1	2.5	13.569	1	24	2221	2245	GAGAUGGAAUCAGUGU-UUGGACAU	AUUUUCAAUACACUGAUUUCAUCUC	Clivagem
spe-miR7980b-2-5p	Sopen07g023160.1	2.5	15.553	1	21	597	617	GAGAUGGAAUCAGUGUUUGGA	UGCAGAUUGCUGAUUCCAUCUC	Clivagem
spe-miR7980b-2-5p	Sopen05g022670.1	2.5	16.038	1	21	9	29	GAGAUGGAAUCAGUGUUUGGA	UUCAAGCAGUGAUUCCAUUUC	Clivagem
spe-miR7980b-2-5p	Sopen11g024970.1	3.0	19.259	1	21	1854	1874	GAGAUGGAAUCAGUGUUUGGA	UCCAGACACGGAUUCUGUCUU	Clivagem
spe-miR7980b-2-5p	Sopen01g040280.1	3.0	15.58	1	21	196	216	GAGAUGGAAUCAGUGUUUGGA	UCCGAACAUCGGUCCAUUUC	Clivagem
spe-miR7980b-2-5p	Sopen09g005560.1	2.5	16.09	1	20	3798	3817	GAGAUGGAAUCAGUGUUUGG	UCAAGAACUGAUUUCAUCUC	Clivagem
spe-miR7980b-2-5p	Sopen09g005560.2	2.5	16.09	1	20	3771	3790	GAGAUGGAAUCAGUGUUUGG	UCAAGAACUGAUUUCAUCUC	Clivagem
spe-miR7980b-2-5p	Sopen05g005910.1	2.5	21.82	1	20	1084	1103	GAGAUGGAAUCAGUGUUUGG	CCAAAUUCUGAUUCCGUCUU	Clivagem
spe-miR7980b-2-5p	Sopen01g028370.1	3.0	9.745	1	20	103	122	GAGAUGGAAUCAGUGUUUGG	GCAAUUACUGAUUUCAUCUC	Clivagem
spe-miR7980b-2-5p	Sopen10g030460.1	3.0	15.591	1	20	1402	1421	GAGAUGGAAUCAGUGUUUGG	UCAAAAAGUGAUUUCUUCUC	Clivagem
spe-miR7980b-2-5p	Sopen11g015610.1	3.0	9.809	1	20	496	515	GAGAUGGAAUCAGUGUUUGG	CCAAAUACAAAUCCAUUUC	Tradução
spe-miR7980b-3-3p	Sopen10g031150.1	1.5	24.592	1	22	438	459	GUCCAAACACUGAUUCCAUCUC	GAGAUGGAAUCAGUGUAUGGAC	Clivagem
spe-miR7980b-3-3p	Sopen12g004980.1	3.0	20.913	1	22	695	716	GUCCAAACACUGAUUCCAUCUC	GGCAUGGAAUCGGUGUUUGGGA	Clivagem
spe-miR7980b-3-3p	Sopen05g027340.1	2.5	22.074	1	20	1464	1483	GUCCAAACACUGAUUCCAUC	GAUGGAAUCGUUGUUUGGGU	Tradução
spe-miR7980b-3-3p	Sopen03g007890.1	3.0	12.717	1	20	1407	1426	GUCCAAACACUGAUUCCAUC	GAUGGAGUCACUCUUUGGAU	Tradução
spe-miR7980b-4-3p	Sopen10g031150.1	1.5	24.592	1	22	438	459	GUCCAAACACUGAUUCCAUCUC	GAGAUGGAAUCAGUGUAUGGAC	Clivagem
spe-miR7980b-4-3p	Sopen12g004980.1	3.0	20.913	1	22	695	716	GUCCAAACACUGAUUCCAUCUC	GGCAUGGAAUCGGUGUUUGGGA	Clivagem
spe-miR7980b-4-3p	Sopen05g027340.1	2.5	22.074	1	20	1464	1483	GUCCAAACACUGAUUCCAUC	GAUGGAAUCGUUGUUUGGGU	Tradução
spe-miR7980b-4-3p	Sopen03g007890.1	3.0	12.717	1	20	1407	1426	GUCCAAACACUGAUUCCAUC	GAUGGAGUCACUCUUUGGAU	Tradução
spe-miR7980b-5-5p	Sopen10g031150.1	1.5	24.592	1	24	436	459	GUCCAAACACUGAUUCCAUCUCAG	CGGAGAUGGAAUCAGUGUAUGGAC	Clivagem
spe-miR7980b-5-5p	Sopen12g004980.1	3.0	20.913	1	22	695	716	GUCCAAACACUGAUUCCAUCUC	GGCAUGGAAUCGGUGUUUGGGA	Clivagem
spe-miR7980b-5-5p	Sopen05g027340.1	2.5	22.074	1	20	1464	1483	GUCCAAACACUGAUUCCAUC	GAUGGAAUCGUUGUUUGGGU	Tradução
spe-miR7980b-5-5p	Sopen03g007890.1	3.0	12.717	1	20	1407	1426	GUCCAAACACUGAUUCCAUC	GAUGGAGUCACUCUUUGGAU	Tradução
spe-miR7980b-6-3p	Sopen01g039780.1	2.5	13.569	1	24	2221	2245	GAGAUGGAAUCAGUGU-UUGGACAU	AUUUUCAAUACACUGAUUUCAUCUC	Clivagem
spe-miR7980b-6-3p	Sopen07g023160.1	2.5	15.553	1	21	597	617	GAGAUGGAAUCAGUGUUUGGA	UGCAGAUUGCUGAUUCCAUCUC	Clivagem
spe-miR7980b-6-3p	Sopen05g022670.1	2.5	16.038	1	21	9	29	GAGAUGGAAUCAGUGUUUGGA	UUCAAGCAGUGAUUCCAUUUC	Clivagem

spe-miR7980b-6-3p	Sopen11g024970.1	3.0	19.259	1	21	1854	1874	GAGAUGGAAUCAGUGUUUGGA	UCCAGACACGGAUUCUGUCUU	Clivagem
spe-miR7980b-6-3p	Sopen01g040280.1	3.0	15.58	1	21	196	216	GAGAUGGAAUCAGUGUUUGGA	UCCGAACAUCCGUUCCAUUUC	Clivagem
spe-miR7980b-6-3p	Sopen09g005560.1	2.5	16.09	1	20	3798	3817	GAGAUGGAAUCAGUGUUUGG	UCAAGAACUGAUUUCAUCUC	Clivagem
spe-miR7980b-6-3p	Sopen09g005560.2	2.5	16.09	1	20	3771	3790	GAGAUGGAAUCAGUGUUUGG	UCAAGAACUGAUUUCAUCUC	Clivagem
spe-miR7980b-6-3p	Sopen05g005910.1	2.5	21.82	1	20	1084	1103	GAGAUGGAAUCAGUGUUUGG	CCAAAUUCUGAUUCCGUCUU	Clivagem
spe-miR7980b-6-3p	Sopen01g028370.1	3.0	9.745	1	20	103	122	GAGAUGGAAUCAGUGUUUGG	GCAAUUACUGAUUUCAUCUC	Clivagem
spe-miR7980b-6-3p	Sopen10g030460.1	3.0	15.591	1	20	1402	1421	GAGAUGGAAUCAGUGUUUGG	UCAAAAAGUGAUUUAUCUC	Clivagem
spe-miR7980b-6-3p	Sopen11g015610.1	3.0	9.809	1	20	496	515	GAGAUGGAAUCAGUGUUUGG	CCAAAUACAAAUCCAUUUC	Tradução
spe-miR7981-3p	Sopen05g007160.1	3.0	14.905	1	21	410	430	AUAGGACUUUAGUUUAGUUA	UUAACAAGCUGAAGUUCUGU	Clivagem
spe-miR7981-5p	Sopen07g011890.1	3.0	14.951	1	24	812	834	CUUAACUAAACUAAGGUCCUAUUA	UGAUAGGACCUUA-UUUAGUUAAC	Tradução
spe-miR7981-5p	Sopen07g025370.1	3.0	19.307	1	20	632	651	CUUAACUAAACUAAGGUCCU	AGGAUCUUAGUUUGUUUGAG	Clivagem
spe-miR7981-5p	Sopen03g037860.1	3.0	13.574	1	20	2696	2715	CUUAACUAAACUAAGGUCCU	AGGACAUUGGUUUAGUUGAU	Clivagem
spe-miR7983-1-3p	Sopen01g006360.1	0.0	13.938	1	24	2539	2562	ACUAAUGCCGGUAAAGACUUUAAC	GCUAAAGUCUUUACCGGCAUUAGU	Clivagem
spe-miR7983-1-5p	Sopen09g011810.1	3.0	18.925	1	23	1874	1896	UAAAGCCUUUAGCGACAUUGGUU	AAGCAAUGUCGUCACAGGCUUUG	Tradução
spe-miR7983-1-5p	Sopen10g009310.1	3.0	18.657	1	21	56	76	UAAAGCCUUUAGCGACAUUGG	UCAGUGUCGGUAAAGGAUUUA	Clivagem
spe-miR7983-1-5p	Sopen03g017620.1	3.0	16.512	1	21	733	753	UAAAGCCUUUAGCGACAUUGG	CCAAUUUCUCUGAAGGUUUUA	Clivagem
spe-miR7983-2-3p	Sopen01g006360.1	0.0	13.938	1	24	2539	2562	ACUAAUGCCGGUAAAGACUUUAAC	GCUAAAGUCUUUACCGGCAUUAGU	Clivagem
spe-miR7983-2-5p	Sopen09g011810.1	3.0	18.925	1	23	1874	1896	UAAAGCCUUUAGCGACAUUGGUU	AAGCAAUGUCGUCACAGGCUUUG	Tradução
spe-miR7983-2-5p	Sopen10g009310.1	3.0	18.657	1	21	56	76	UAAAGCCUUUAGCGACAUUGG	UCAGUGUCGGUAAAGGAUUUA	Clivagem
spe-miR7983-2-5p	Sopen03g017620.1	3.0	16.512	1	21	733	753	UAAAGCCUUUAGCGACAUUGG	CCAAUUUCUCUGAAGGUUUUA	Clivagem
spe-miR7983-3-3p	Sopen01g006360.1	0.0	13.938	1	24	2539	2562	ACUAAUGCCGGUAAAGACUUUAAC	GCUAAAGUCUUUACCGGCAUUAGU	Clivagem
spe-miR7983-3-5p	Sopen00g008820.1	2.5	18.585	1	24	377	400	UAAAGCCUUUAGCGAAAUUGGUUG	CGGUUGAUUUAGCUAGAGGCUUUA	Clivagem
spe-miR7983-3-5p	Sopen03g017620.1	2.0	16.512	1	21	733	753	UAAAGCCUUUAGCGAAAUUGG	CCAAUUUCUCUGAAGGUUUUA	Clivagem
spe-miR7983-3-5p	Sopen01g026370.1	3.0	20.862	1	21	1302	1322	UAAAGCCUUUAGCGAAAUUGG	CCAACUUCGGAAAGGCUUUA	Tradução
spe-miR7983-4-3p	Sopen01g006360.1	1.0	13.938	1	24	2539	2562	ACUAAUGCCGAUAAAGACUUUAAC	GCUAAAGUCUUUACCGGCAUUAGU	Tradução
spe-miR7983-4-5p	Sopen05g003800.1	2.5	11.164	1	21	68	88	UAAAGUCUUUAGCGACAUUGG	UCAAUGCUGCUAAAGAUUUUG	Clivagem
spe-miR7983-4-5p	Sopen09g034420.1	3.0	10.331	1	24	2207	2230	UAAAGUCUUUAGCGACAUUGGUUC	GUAUCAAUGUCGUGUUGAUUUUA	Tradução
spe-miR7983-4-5p	Sopen08g027810.1	3.0	15.249	1	20	960	979	UAAAGUCUUUAGCGACAUUG	UAGUGUUGCUAGGGAUUUUA	Clivagem
spe-miR7983-5-3p	Sopen01g006360.1	1.0	13.938	1	24	2539	2562	ACUAAUGCCGAUAAAGACUUUAAC	GCUAAAGUCUUUACCGGCAUUAGU	Tradução
spe-miR7983-5-5p	Sopen05g003800.1	2.5	11.164	1	21	68	88	UAAAGUCUUUAGCGACAUUGG	UCAAUGCUGCUAAAGAUUUUG	Clivagem
spe-miR7983-5-5p	Sopen09g034420.1	3.0	10.331	1	24	2207	2230	UAAAGUCUUUAGCGACAUUGGUUC	GUAUCAAUGUCGUGUUGAUUUUA	Tradução
spe-miR7983-5-5p	Sopen08g027810.1	3.0	15.249	1	20	960	979	UAAAGUCUUUAGCGACAUUG	UAGUGUUGCUAGGGAUUUUA	Clivagem
spe-miR7983-6-3p	Sopen01g006360.1	0.0	13.938	1	24	2539	2562	ACUAAUGCCGGUAAAGACUUUAGU	GCUAAAGUCUUUACCGGCAUUAGU	Clivagem
spe-miR7983-6-5p	Sopen05g003800.1	2.5	11.164	1	21	68	88	UAAAGUCUUUAGCGACAUUGG	UCAAUGCUGCUAAAGAUUUUG	Clivagem
spe-miR7983-6-5p	Sopen09g034420.1	3.0	10.331	1	24	2207	2230	UAAAGUCUUUAGCGACAUUGGUUC	GUAUCAAUGUCGUGUUGAUUUUA	Tradução

spe-miR7983-6-5p	Sopen08g027810.1	3.0	15.249	1	20	960	979	UAAAGUCUUUAGCGACAUUG	UAGUGUUGCUAGGGAUUUUUA	Clivagem
spe-miR7983-7-3p	Sopen01g006360.1	0.0	13.938	1	24	2539	2562	ACUAAUGCCGGUAAAGACUUUAAAC	GCUAAAGUCUUUACCGGCAUUAGU	Clivagem
spe-miR7983-7-5p	Sopen09g011810.1	3.0	18.925	1	23	1874	1896	UAAAGCCUUUAGCGACAUUGGUU	AAGCAAUGUCGUCACAGGCUUUG	Tradução
spe-miR7983-7-5p	Sopen10g009310.1	3.0	18.657	1	21	56	76	UAAAGCCUUUAGCGACAUUGG	UCAGUGUCGGUAAAGGAUUUA	Clivagem
spe-miR7983-7-5p	Sopen03g017620.1	3.0	16.512	1	21	733	753	UAAAGCCUUUAGCGACAUUGG	CCAAUUUCUCUGAAGGUUUUA	Clivagem
spe-miR7984-3p	Sopen08g026080.1	3.0	18.339	1	24	11122	11145	CAAUUUCGGUCAAAAGUUCAGAUU	AUAUCUGAACUAAGACUGAAGUUG	Clivagem
spe-miR7984-3p	Sopen01g019530.1	3.0	20.359	1	21	2136	2156	CAAUUUCGGUCAAAAGUUCAGA	UCUCAGCGUUGACCGAAGUUG	Clivagem
spe-miR7984-3p	Sopen12g018600.1	3.0	20.973	1	24	31	55	CAAUUUCGGUCAAAAGU-UCAGAUU	AUGCUUGAUACUUUGAACGAAUUG	Tradução
spe-miR7984-3p	Sopen12g012420.1	2.5	20.35	1	20	5013	5032	CAAUUUCGGUCAAAAGUUCAG	CAGAACUUUUACUGAAAUUG	Tradução
spe-miR7984-5p	Sopen01g013390.1	2.5	21.709	1	22	494	515	AUCCCAAACUUUGGAAAUGACU	AUUCGUCUCCAAAGUUUGGGAA	Clivagem
spe-miR7984-5p	Sopen12g015830.1	2.5	16.029	1	20	344	363	AUCCCAAACUUUGGAAAUGA	UCGUUUUCUAGAAUUUGGGAU	Tradução
spe-miR7984-5p	Sopen12g013250.1	3.0	18.859	1	20	722	741	AUCCCAAACUUUGGAAAUGA	CCAUUUCUAGAAUUUGGGAU	Tradução
spe-miR7984-5p	Sopen04g012680.1	3.0	15.442	1	20	76	95	AUCCCAAACUUUGGAAAUGA	UCACUCCAAGGUUUUGAGAU	Clivagem
spe-miR7984-5p	Sopen01g017900.1	2.5	17.42	1	20	1305	1324	AUCCCAAACUUUGGAAAUGA	UCAGCUCCAAGGUUUUGGGAU	Clivagem
spe-miR7984b-3p	Sopen02g025270.1	3.0	19.582	1	23	649	671	GGUCUUUCAUAAAAUUUGGUUUU	GAUACCAAUUUUAUGAGAUUUU	Clivagem
spe-miR7984b-3p	Sopen01g037160.1	3.0	18.725	1	23	769	791	GGUCUUUCAUAAAAUUUGGUUUU	GGUGCUAAAAUUUAUGGAAUACC	Clivagem
spe-miR7984b-3p	Sopen10g006240.1	2.5	19.418	1	24	620	643	GGUCUUUCAUAAAAUUUGGUUUU	UGAAACUACAUUUUGUGGAAGACC	Clivagem
spe-miR7984b-3p	Sopen01g020830.1	3.0	17.921	1	24	939	962	GGUCUUUCAUAAAAUUUGGUUUU	CCAUACCAACUAUUAUGAGAGACU	Clivagem
spe-miR7984b-3p	Sopen08g013730.1	2.5	22.686	1	22	1448	1468	GGUCUUUCAUAAAAUUUGGUUUU	AUACCAAUUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g022620.1	3.0	21.465	1	24	1419	1442	GGUCUUUCAUAAAAUUUGGUUUU	CCGUACCAACUGUAUGAGAGACU	Clivagem
spe-miR7984b-3p	Sopen11g023390.1	3.0	17.531	1	24	2604	2627	GGUCUUUCAUAAAAUUUGGUUUU	CAGGACCAACUGUAUGAGAGACU	Clivagem
spe-miR7984b-3p	Sopen12g019410.2	3.0	15.742	1	22	743	763	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen09g010110.1	3.0	14.904	1	22	350	370	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen09g019880.1	3.0	19.372	1	22	680	700	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen12g019410.1	3.0	16.033	1	22	743	763	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen09g015470.1	3.0	20.108	1	22	893	913	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen08g013600.1	3.0	12.919	1	22	1529	1549	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen09g008880.1	3.0	14.022	1	22	947	967	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen08g014250.1	3.0	12.915	1	22	1361	1381	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g019400.1	3.0	15.246	1	22	1823	1843	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen10g014070.1	3.0	16.355	1	22	1625	1645	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g025630.2	3.0	20.217	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen03g018340.1	3.0	14.332	1	22	1427	1447	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen11g015070.1	3.0	11.92	1	22	1202	1222	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen11g014060.1	3.0	15.089	1	22	1664	1684	GGUCUUUCAUAAAAUUUGGUUUU	AUGCCAAAUUU-AUGAAAGAUC	Tradução

spe-miR7984b-3p	Sopen05g022320.1	3.0	15.736	1	22	1535	1555	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen11g011840.1	3.0	13.553	1	22	1745	1765	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g015470.1	3.0	19.268	1	22	1706	1726	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen10g026340.1	3.0	12.609	1	22	1463	1483	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g025620.1	3.0	15.22	1	22	1562	1582	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen09g013540.1	3.0	20.276	1	22	1553	1573	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen10g017180.1	3.0	14.92	1	22	1703	1723	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g007940.1	3.0	20.276	1	22	1703	1723	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g014230.1	3.0	17.564	1	22	860	880	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen10g014610.1	3.0	17.511	1	22	1655	1675	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g016260.1	3.0	19.718	1	22	1808	1828	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen04g009730.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen11g021790.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g010730.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen00g004260.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen06g011090.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen02g002300.1	3.0	16.744	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g014130.1	3.0	18.264	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g021100.1	3.0	19.577	1	22	2069	2089	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen02g009480.1	3.0	13.765	1	22	197	217	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAGUUU-AUGAAAGACC	Tradução
spe-miR7984b-3p	Sopen06g017730.1	3.0	13.956	1	22	1664	1684	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g019820.1	3.0	18.72	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g017370.1	3.0	17.165	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen02g004540.1	3.0	14.972	1	22	518	538	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g012200.1	3.0	19.655	1	22	1754	1774	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen06g011890.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen11g015230.1	3.0	18.918	1	22	1736	1756	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen08g018360.1	3.0	20.276	1	22	2090	2110	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen08g014840.1	3.0	22.442	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen03g011640.1	3.0	18.631	1	22	995	1015	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen04g015010.1	3.0	19.817	1	22	1733	1753	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen08g005980.1	3.0	20.276	1	22	2483	2503	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen12g015450.1	3.0	18.936	1	22	1700	1720	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen09g014290.1	3.0	17.007	1	22	1145	1165	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen10g025400.1	3.0	13.627	1	22	878	898	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução

spe-miR7984b-3p	Sopen10g014060.1	3.0	19.818	1	22	2300	2320	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen02g007210.1	3.0	20.276	1	22	2324	2344	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen10g016000.1	3.0	13.336	1	22	2366	2386	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g013380.1	3.0	15.897	1	22	1616	1636	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g025870.1	3.0	15.171	1	22	1421	1441	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen10g019140.1	3.0	20.276	1	22	1748	1768	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen04g008950.1	3.0	18.128	1	22	2618	2638	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen09g011420.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen02g008240.1	3.0	17.631	1	22	1748	1768	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen06g008510.1	3.0	18.762	1	22	1841	1861	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen00g007400.1	3.0	17.991	1	22	857	877	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g027670.1	3.0	20.178	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen11g018620.1	3.0	20.276	1	22	1610	1630	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g013720.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen03g026400.1	3.0	12.033	1	22	1415	1435	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g007720.1	3.0	11.775	1	22	1460	1480	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen12g026710.1	3.0	19.829	1	22	2126	2146	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g007830.1	3.0	17.019	1	22	2057	2077	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen04g010810.1	3.0	18.762	1	22	1682	1702	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen08g014790.1	3.0	15.167	1	22	2123	2143	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen04g014540.1	3.0	15.508	1	22	1478	1498	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen03g017830.1	3.0	17.748	1	22	1313	1333	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g031640.1	3.0	15.585	1	22	2825	2845	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g022230.1	3.0	20.276	1	22	722	742	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen04g014130.2	3.0	18.57	1	22	884	904	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen10g009470.1	3.0	14.169	1	22	1895	1915	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen09g012500.1	3.0	18.147	1	22	1526	1546	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen08g008760.1	3.0	13.184	1	22	1307	1327	GGUCUUUCAUAAAAUUUGGUAU	AUACCAAGUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen04g014500.1	3.0	15.635	1	22	1112	1132	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen04g022410.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen12g014940.1	3.0	12.326	1	22	1520	1540	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAGUUU-AUGAAAGACC	Tradução
spe-miR7984b-3p	Sopen12g035000.1	3.0	20.276	1	22	2972	2992	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g011450.1	3.0	14.315	1	22	1280	1300	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen03g012500.1	3.0	16.829	1	22	1658	1678	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g019940.1	3.0	20.276	1	22	989	1009	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução

spe-miR7984b-3p	Sopen03g017750.1	3.0	22.073	1	22	1424	1444	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen09g009950.1	3.0	14.79	1	22	2309	2329	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen03g017960.1	3.0	17.797	1	22	1475	1495	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen12g024620.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g018430.1	3.0	18.865	1	22	821	841	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen06g016390.1	3.0	19.866	1	22	1559	1579	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen08g007960.1	3.0	16.777	1	22	2693	2713	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g024880.1	3.0	12.193	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen04g020480.1	3.0	16.25	1	22	1754	1774	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen10g009760.1	3.0	19.549	1	22	3584	3604	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g023570.1	3.0	15.095	1	22	1670	1690	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g014400.1	3.0	19.829	1	22	1478	1498	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen04g018840.1	3.0	19.083	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen11g011760.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g019600.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g023150.1	3.0	17.391	1	22	1505	1525	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g010150.1	3.0	20.562	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen03g014150.1	3.0	18.99	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen12g019480.2	3.0	15.503	1	22	1571	1591	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen08g006630.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen08g006250.1	3.0	20.219	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g019040.1	3.0	12.183	1	22	1547	1567	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen10g007000.1	3.0	18.424	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g016480.1	3.0	18.408	1	22	1820	1840	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen02g005270.1	3.0	20.412	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen11g024020.1	3.0	19.496	1	22	1718	1738	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g020670.2	3.0	18.866	1	22	1604	1624	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g021220.1	3.0	20.219	1	22	1748	1768	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen03g013780.1	3.0	20.276	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g019300.1	3.0	17.877	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen12g017330.1	3.0	19.504	1	22	2126	2146	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g015790.1	3.0	16.297	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen10g021120.1	3.0	15.722	1	22	3848	3868	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen11g017830.1	3.0	15.334	1	22	1775	1795	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen03g026570.1	3.0	21.191	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução

spe-miR7984b-3p	Sopen05g022050.1	3.0	20.276	1	22	2057	2077	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g020380.1	3.0	20.276	1	22	3494	3514	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g020580.1	3.0	18.762	1	22	2261	2281	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g008190.1	3.0	13.03	1	22	3284	3304	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen06g013880.1	3.0	18.762	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen12g015050.1	3.0	21.412	1	22	2105	2125	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen10g011350.1	3.0	16.54	1	22	4151	4171	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen12g014690.1	3.0	11.389	1	22	2348	2368	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g010500.1	3.0	19.372	1	22	1883	1903	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g008300.1	3.0	22.121	1	22	2057	2077	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen10g008810.2	3.0	19.01	1	22	2240	2260	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen08g014240.1	3.0	17.264	1	22	2483	2503	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g016030.1	3.0	18.984	1	22	2717	2737	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g011260.1	3.0	9.915	1	22	2270	2290	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g007660.1	3.0	20.829	1	22	2711	2731	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen03g011200.1	3.0	14.1	1	22	644	664	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen02g008800.1	3.0	20.276	1	22	4205	4225	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g013340.1	3.0	15.886	1	22	1715	1735	GGUCUUUCAUAAAAUUUGGUAU	AUACCAAGUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g025630.1	3.0	20.217	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g011170.1	3.0	21.191	1	22	1844	1864	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen02g009000.1	3.0	16.691	1	22	3293	3313	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen04g016530.1	3.0	20.219	1	22	1754	1774	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g017350.1	3.0	13.268	1	22	1994	2014	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g017350.1	3.0	16.882	1	22	4871	4891	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen03g020670.1	3.0	12.517	1	22	4211	4231	GGUCUUUCAUAAAAUUUGGUAU	AUACCAAGUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen12g027450.1	3.0	15.417	1	22	4403	4423	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g016520.1	3.0	12.669	1	22	707	727	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g016520.1	3.0	17.956	1	22	4448	4468	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g019170.1	3.0	13.815	1	22	1547	1567	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen05g024920.1	3.0	20.276	1	22	4208	4228	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen12g018790.1	3.0	20.276	1	22	5630	5650	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g007670.1	3.0	19.71	1	22	3386	3406	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAA-UUUUAUGAAAGAUC	Clivagem
spe-miR7984b-3p	Sopen03g014300.1	3.0	20.219	1	22	4481	4501	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen03g014140.1	3.0	19.422	1	22	5273	5293	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g020980.1	3.0	18.03	1	22	1433	1453	GGUCUUUCAUAAAAUUUGGUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução

spe-miR7984b-3p	Sopen01g020980.1	3.0	20.276	1	22	4127	4147	GGUCUUUCAUAAAAUUUGGUUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen01g020980.1	3.0	12.949	1	22	6656	6676	GGUCUUUCAUAAAAUUUGGUUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen00g001450.1	3.0	19.714	1	22	4304	4324	GGUCUUUCAUAAAAUUUGGUUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen04g010440.1	3.0	17.34	1	22	4538	4558	GGUCUUUCAUAAAAUUUGGUUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen02g003000.1	3.0	20.276	1	22	2102	2122	GGUCUUUCAUAAAAUUUGGUUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen02g009520.1	3.0	15.654	1	22	1181	1201	GGUCUUUCAUAAAAUUUGGUUAU	AUACCAAGUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen06g013300.1	3.0	17.356	1	22	7547	7567	GGUCUUUCAUAAAAUUUGGUUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen08g012200.1	3.0	20.276	1	22	3965	3985	GGUCUUUCAUAAAAUUUGGUUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen06g014290.1	3.0	16.858	1	22	5858	5878	GGUCUUUCAUAAAAUUUGGUUAU	AUGCCAAGUUU-AUGAAAGACC	Tradução
spe-miR7984b-3p	Sopen05g020090.1	3.0	18.958	1	22	4565	4585	GGUCUUUCAUAAAAUUUGGUUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen08g010640.1	3.0	14.783	1	22	5846	5866	GGUCUUUCAUAAAAUUUGGUUAU	AUACCAAGUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g010080.1	3.0	20.276	1	22	638	658	GGUCUUUCAUAAAAUUUGGUUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen07g010080.1	3.0	18.053	1	22	7661	7681	GGUCUUUCAUAAAAUUUGGUUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-3p	Sopen12g016220.1	3.0	21.068	1	22	7907	7927	GGUCUUUCAUAAAAUUUGGUUAU	AUGCCAAAUUU-AUGAAAGAUC	Tradução
spe-miR7984b-5p	Sopen11g022870.1	3.0	11.547	1	20	7	26	AUAUCAAAACUUUGGAAAUGA	CGUUUUCCAAAGUUUGAUUAU	Clivagem
spe-miR7984b-5p	Sopen08g006300.1	2.5	18.313	1	23	546	569	AUAUCAAAACUUU-GGAAAUGACCU	GGAUCGUUUCCAAAGUUUGAUUAU	Clivagem
spe-miR7984b-5p	Sopen06g012970.1	2.5	15.848	1	23	3	26	AUAUCAAAACUUU-GGAAAUGACCU	GGAUCGUUUCCAAAGUUUGAUUAU	Clivagem
spe-miR7984b-5p	Sopen10g023000.1	2.5	17.314	1	23	1143	1166	AUAUCAAAACUUU-GGAAAUGACCU	GGAUCGUUUCCAAAGUUUGAUUAU	Clivagem
spe-miR7984b-5p	Sopen06g022890.1	2.0	18.481	1	20	94	113	AUAUCAAAACUUUGGAAAUGA	UCAUUUCAUAAGUUUGAUUAU	Clivagem
spe-miR7984b-5p	Sopen07g017980.1	3.0	14.884	1	23	3	26	AUAUCAAAACUUU-GGAAAUGACCU	GGAUCGUUUCCGAAGUUUGAUUAU	Clivagem
spe-miR7984b-5p	Sopen04g012680.1	3.0	15.442	1	24	72	95	AUAUCAAAACUUUGGAAAUGACCUU	AACUUCACUCCAAGGUUGAGAU	Clivagem
spe-miR7984b-5p	Sopen06g014230.1	3.0	12.571	1	21	1275	1295	AUAUCAAAACUUUGGAAAUGAC	GUGGUUUCCAAAGUUUGAUGU	Clivagem
spe-miR7984b-5p	Sopen07g030620.1	3.0	10.239	1	23	928	950	AUAUCAAAACUUUGGAAAUGACCU	AGUUCAGUCCCCAAGUUUGAUUAU	Clivagem
spe-miR7984b-5p	Sopen07g029350.1	3.0	13.667	1	20	184	203	AUAUCAAAACUUUGGAAAUGA	UUUUUUGGAAGGUUGAUUAU	Clivagem
spe-miR7984b-5p	Sopen08g026550.1	3.0	19.463	1	20	154	173	AUAUCAAAACUUUGGAAAUGA	UCACUCAAAGGUUGGUUAU	Clivagem
spe-miR7984c-3p	Sopen05g002430.1	2.0	11.783	1	22	865	886	CCUUCAUAAAGUUUGGUUAUCGU	AUGACACCAAUUUUGUGAAGG	Clivagem
spe-miR7984c-3p	Sopen01g006260.1	3.0	23.33	1	22	566	587	CCUUCAUAAAGUUUGGUUAUCGU	AGGGUACCGGGUUUAUGAAGG	Tradução
spe-miR7984c-3p	Sopen09g005350.1	3.0	21.015	1	21	1391	1412	CCUUCAUAAAG-UUUGGUUAUCG	UGGUACCAAACUUUGUGAAGG	Clivagem
spe-miR7984c-3p	Sopen10g032250.1	2.5	14.336	1	20	1374	1393	CCUUCAUAAAGUUUGGUUAUC	GAUACGAGACUUGAUGAAGG	Clivagem
spe-miR7984c-3p	Sopen04g032190.1	3.0	18.474	1	23	1342	1364	CCUUCAUAAAGUUUGGUUAUCGUA	UCUGAAAUAGAAACUUUAUGGAGG	Clivagem
spe-miR7984c-3p	Sopen08g024770.1	3.0	16.767	1	21	329	349	CCUUCAUAAAGUUUGGUUAUCG	UGAUUGUAAACUUUGUGAAGG	Clivagem
spe-miR7984c-3p	Sopen07g003460.1	3.0	13.013	1	23	1698	1721	CCUUCAU-AAAGUUUGGUUAUCGUA	UAUCAAAACAAACUUUAUGAAGG	Clivagem
spe-miR7984c-3p	Sopen04g007980.1	3.0	10.983	1	20	382	401	CCUUCAUAAAGUUUGGUUAUC	GUUACCAAAGUUUAUGAAGA	Tradução
spe-miR7987-5p	Sopen12g028680.2	3.0	13.833	1	21	1860	1880	ACACUAGUUGAUCUUAUUGAU	AUCAUAAGAUAACUCCUGU	Clivagem
spe-miR7987-5p	Sopen12g028680.1	3.0	13.833	1	21	1722	1742	ACACUAGUUGAUCUUAUUGAU	AUCAUAAGAUAACUCCUGU	Clivagem

spe-miR7987-5p	Sopen10g004960.2	3.0	23.974	1	20	2962	2981	ACACUAGUUGAUCUUUUUUGA	UCAAGAAGAUCAGUUAGUGG	Clivagem
spe-miR7987-5p	Sopen01g032380.2	3.0	23.974	1	20	2962	2981	ACACUAGUUGAUCUUUUUUGA	UCAAGAAGAUCAGUUAGUGG	Clivagem
spe-miR7987-5p	Sopen07g025180.1	3.0	21.31	1	20	2908	2927	ACACUAGUUGAUCUUUUUUGA	UCAAGAAGAUCAGUUAGUGG	Clivagem
spe-miR7987-5p	Sopen05g005590.1	3.0	21.349	1	20	2572	2591	ACACUAGUUGAUCUUUUUUGA	UCAAGAAGAUCAGUUAGUGG	Clivagem
spe-miR7987-5p	Sopen05g009390.1	3.0	21.31	1	20	2527	2546	ACACUAGUUGAUCUUUUUUGA	UCAAGAAGAUCAGUUAGUGG	Clivagem
spe-miR7987-5p	Sopen01g032380.1	3.0	21.655	1	20	2607	2626	ACACUAGUUGAUCUUUUUUGA	UCAAGAAGAUCAGUUAGUGG	Clivagem
spe-miR7987-5p	Sopen10g004960.3	3.0	23.974	1	20	1603	1622	ACACUAGUUGAUCUUUUUUGA	UCAAGAAGAUCAGUUAGUGG	Clivagem
spe-miR7987-5p	Sopen12g022070.1	3.0	23.974	1	20	1183	1202	ACACUAGUUGAUCUUUUUUGA	UCAAGAAGAUCAGUUAGUGG	Clivagem
spe-miR7987-5p	Sopen00g014010.1	3.0	19.285	1	20	1239	1258	ACACUAGUUGAUCUUUUUUGA	UCAAGAAGAUCAGUUAGUGG	Clivagem
spe-miR7987-5p	Sopen01g010260.1	3.0	20.416	1	23	4101	4123	ACACUAGUUGAUCUUUUUUGAUGA	UUUUUGAAGAAGGUCAUUUAGUGU	Clivagem
spe-miR7987-5p	Sopen06g028710.1	3.0	17.78	1	20	1924	1943	ACACUAGUUGAUCUUUUUUGA	UCAGUUAGGUCAAUUGGUGU	Clivagem
spe-miR7987-5p	Sopen12g027530.1	3.0	22.951	1	23	1632	1654	ACACUAGUUGAUCUUUUUUGAUGA	UUUUUGAAGAGGGUCAACUAGUGU	Clivagem
spe-miR7987-5p	Sopen04g012440.1	3.0	14.998	1	20	655	674	ACACUAGUUGAUCUUUUUUGA	UCUUAAGAUAUACUGGUGU	Tradução
spe-miR7990a-1-3p	Sopen01g015170.1	3.0	14.674	1	24	243	266	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-1-3p	Sopen01g034990.1	3.0	18.805	1	24	1509	1532	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-1-3p	Sopen03g022250.1	3.0	18.805	1	24	1509	1532	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-1-3p	Sopen04g029940.1	3.0	18.805	1	24	1509	1532	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-1-3p	Sopen09g029870.1	3.0	18.805	1	24	1509	1532	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-1-3p	Sopen12g008340.1	3.0	18.805	1	24	1509	1532	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-1-3p	Sopen01g009560.1	3.0	18.358	1	24	2169	2192	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-1-3p	Sopen03g023000.1	3.0	20.429	1	23	208	230	UUCAAAUGAUCGUAACUUUGGCC	GACCGAUGUUAUGAUAAUUUGAA	Clivagem
spe-miR7990a-2-3p	Sopen01g015170.1	3.0	14.674	1	24	243	266	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-2-3p	Sopen01g034990.1	3.0	18.805	1	24	1509	1532	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-2-3p	Sopen03g022250.1	3.0	18.805	1	24	1509	1532	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-2-3p	Sopen04g029940.1	3.0	18.805	1	24	1509	1532	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-2-3p	Sopen09g029870.1	3.0	18.805	1	24	1509	1532	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-2-3p	Sopen12g008340.1	3.0	18.805	1	24	1509	1532	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-2-3p	Sopen01g009560.1	3.0	18.358	1	24	2169	2192	UUCAAAUGAUCGUAACUUUGGCCU	AGAUCAAGGUUCUGAUUGUUUGAA	Clivagem
spe-miR7990a-2-3p	Sopen03g023000.1	3.0	20.429	1	23	208	230	UUCAAAUGAUCGUAACUUUGGCC	GACCGAUGUUAUGAUAAUUUGAA	Clivagem
spe-miR7992-3p	Sopen03g010670.1	1.0	20.351	1	20	5065	5084	UGUCUAGAUGUGCACUCCAA	AUGGAGUGCACAUUAGACA	Clivagem
spe-miR7992-3p	Sopen11g023600.1	3.0	21.498	1	20	555	574	UGUCUAGAUGUGCACUCCAA	UUGGGGUGCAUGUCUAGAAA	Clivagem
spe-miR7992-3p	Sopen04g025510.1	2.5	19.821	1	23	592	614	UGUCUAGAUGUGCACUCCAAAGU	GCAUUUGGGUGCUCAUCUAGACA	Tradução
spe-miR7992-3p	Sopen07g012580.1	3.0	20.508	1	20	1356	1375	UGUCUAGAUGUGCACUCCAA	UUGGGGUGCAUGUCUAGAAA	Clivagem
spe-miR7992-3p	Sopen05g034210.1	2.5	21.073	1	22	596	617	UGUCUAGAUGUGCACUCCAAAG	CAUUUGGGUGCUCAUCUAGACA	Tradução
spe-miR7992-3p	Sopen00g010680.1	3.0	22.643	1	20	344	363	UGUCUAGAUGUGCACUCCAA	UUGGACUGCACGGCUGGACA	Clivagem

spe-miR7993a-3p	Sopen03g017710.1	2.5	16.701	1	20	467	486	AUAUUUUUAUGUGGUUAACUU	AAGUUGACCACAUGAAUUU	Clivagem
spe-miR7993a-3p	Sopen11g002790.1	3.0	12.642	1	24	2854	2877	AUAUUUUUAUGUGGUUAACUUAAU	ACUGAAGCUGACCACAUUAAUUAU	Clivagem
spe-miR7993a-3p	Sopen06g004010.1	3.0	19.673	1	20	619	638	AUAUUUUUAUGUGGUUAACUU	AAGUCAGCCACAAAAAGUAU	Clivagem
spe-miR7993b-1-5p	Sopen04g007980.1	3.0	14.288	1	23	2207	2229	UUAAGUUAACCACAUACAGUAUG	CAUACUCUAUGCGGUUAACUUGG	Clivagem
spe-miR7993b-1-5p	Sopen01g049550.1	2.5	16.705	1	24	419	442	UUAAGUUAACCACAUACAGUAUGU	GUGAAUUGUAUGUGGCUAAUUUAG	Tradução
spe-miR7993b-1-5p	Sopen01g049550.2	2.5	16.705	1	24	419	442	UUAAGUUAACCACAUACAGUAUGU	GUGAAUUGUAUGUGGCUAAUUUAG	Tradução
spe-miR7993b-1-5p	Sopen02g034050.1	3.0	14.456	1	20	12022	12040	UUAAGUUAACCACAUACAGU	ACUGUAUGUGGUUG-CUUAA	Clivagem
spe-miR7993b-2-5p	Sopen04g005540.1	2.5	15.443	1	24	2923	2946	AUAUUUUUAUGUGGUUAACGUAAU	GGUAACGUAGACGACAUAAAAUUAU	Clivagem
spe-miR7993b-2-5p	Sopen10g034550.1	3.0	13.63	1	20	203	222	AUAUUUUUAUGUGGUUAACGU	UUGUUAUUAUGUAAAAUUAU	Clivagem
spe-miR7997a-1-5p	Sopen04g001920.1	1.5	10.329	1	21	310	330	AUGCUGCUCGGACUCUUCAAA	UUUGAAGAGUCCGAGCAACAU	Clivagem
spe-miR7997a-1-5p	Sopen03g005640.1	1.5	24.714	1	21	850	870	AUGCUGCUCGGACUCUUCAAA	UUUGAAGAGUCCGAGCAACAU	Clivagem
spe-miR7997a-1-5p	Sopen00g008820.1	2.0	24.739	1	20	92	111	AUGCUGCUCGGACUCUUCAA	UUGAAGAGUCUGAGCAACAU	Clivagem
spe-miR7997a-1-5p	Sopen08g023050.1	2.5	14.854	1	21	64	84	AUGCUGCUCGGACUCUUCAAA	UUGGAAGAGUCCGAGCAACAU	Clivagem
spe-miR7997a-1-5p	Sopen01g001200.1	2.5	22.048	1	20	1091	1110	AUGCUGCUCGGACUCUUCAA	GUGAAGAGUCCGAGCAACAU	Clivagem
spe-miR7997a-1-5p	Sopen09g035370.1	3.0	13.616	1	21	118	138	AUGCUGCUCGGACUCUUCAAA	UUUGAUGAGUCUGAGCAGAAU	Clivagem
spe-miR7997a-1-5p	Sopen04g032170.1	3.0	16.688	1	20	1262	1281	AUGCUGCUCGGACUCUUCAA	AAGAAGAGUUUGAGCAGCAU	Clivagem
spe-miR7997a-1-5p	Sopen02g028690.1	3.0	17.35	1	20	11	30	AUGCUGCUCGGACUCUUCAA	UUCAGGAUUUCGAGCAGCAU	Clivagem
spe-miR7997a-1-5p	Sopen02g028690.2	3.0	17.35	1	20	11	30	AUGCUGCUCGGACUCUUCAA	UUCAGGAUUUCGAGCAGCAU	Clivagem
spe-miR7997a-2-5p	Sopen04g001920.1	1.5	10.329	1	21	310	330	AUGCUGCUCGGACUCUUCAAA	UUUGAAGAGUCCGAGCAACAU	Clivagem
spe-miR7997a-2-5p	Sopen03g005640.1	1.5	24.714	1	21	850	870	AUGCUGCUCGGACUCUUCAAA	UUUGAAGAGUCCGAGCAACAU	Clivagem
spe-miR7997a-2-5p	Sopen00g008820.1	2.0	24.739	1	20	92	111	AUGCUGCUCGGACUCUUCAA	UUGAAGAGUCUGAGCAACAU	Clivagem
spe-miR7997a-2-5p	Sopen08g023050.1	2.5	14.854	1	21	64	84	AUGCUGCUCGGACUCUUCAAA	UUGGAAGAGUCCGAGCAACAU	Clivagem
spe-miR7997a-2-5p	Sopen01g001200.1	2.5	22.048	1	20	1091	1110	AUGCUGCUCGGACUCUUCAA	GUGAAGAGUCCGAGCAACAU	Clivagem
spe-miR7997a-2-5p	Sopen09g035370.1	3.0	13.616	1	21	118	138	AUGCUGCUCGGACUCUUCAAA	UUUGAUGAGUCUGAGCAGAAU	Clivagem
spe-miR7997a-2-5p	Sopen04g032170.1	3.0	16.688	1	20	1262	1281	AUGCUGCUCGGACUCUUCAA	AAGAAGAGUUUGAGCAGCAU	Clivagem
spe-miR7997a-2-5p	Sopen02g028690.1	3.0	17.35	1	20	11	30	AUGCUGCUCGGACUCUUCAA	UUCAGGAUUUCGAGCAGCAU	Clivagem
spe-miR7997a-2-5p	Sopen02g028690.2	3.0	17.35	1	20	11	30	AUGCUGCUCGGACUCUUCAA	UUCAGGAUUUCGAGCAGCAU	Clivagem
spe-miR7997a-5p	Sopen04g001920.1	1.5	10.329	1	21	310	330	AUGCUGCUCGGACUCUUCAAA	UUUGAAGAGUCCGAGCAACAU	Clivagem
spe-miR7997a-5p	Sopen03g005640.1	1.5	24.714	1	21	850	870	AUGCUGCUCGGACUCUUCAAA	UUUGAAGAGUCCGAGCAACAU	Clivagem
spe-miR7997a-5p	Sopen00g008820.1	2.0	24.739	1	20	92	111	AUGCUGCUCGGACUCUUCAA	UUGAAGAGUCUGAGCAACAU	Clivagem
spe-miR7997a-5p	Sopen08g023050.1	2.5	14.854	1	21	64	84	AUGCUGCUCGGACUCUUCAAA	UUGGAAGAGUCCGAGCAACAU	Clivagem
spe-miR7997a-5p	Sopen01g001200.1	2.5	22.048	1	20	1091	1110	AUGCUGCUCGGACUCUUCAA	GUGAAGAGUCCGAGCAACAU	Clivagem
spe-miR7997a-5p	Sopen09g035370.1	3.0	13.616	1	21	118	138	AUGCUGCUCGGACUCUUCAAA	UUUGAUGAGUCUGAGCAGAAU	Clivagem
spe-miR7997a-5p	Sopen04g032170.1	3.0	16.688	1	20	1262	1281	AUGCUGCUCGGACUCUUCAA	AAGAAGAGUUUGAGCAGCAU	Clivagem
spe-miR7997a-5p	Sopen02g028690.1	3.0	17.35	1	20	11	30	AUGCUGCUCGGACUCUUCAA	UUCAGGAUUUCGAGCAGCAU	Clivagem

spe-miR7997a-5p	Sopen02g028690.2	3.0	17.35	1	20	11	30	AUGCUGCUCGGACUCUUCAA	UUCAGGAUUUCGAGCAGCAU	Clivagem
spe-miR8001a-5p	Sopen04g005290.1	2.5	12.293	1	20	1824	1843	UCCUGGGGAUUAGUAUGAAA	CUUCAUACUUAUCCUCAGGA	Tradução
spe-miR8001b-1-3p	Sopen06g008960.1	3.0	11.437	1	23	2544	2567	GGAUUUUCAU-ACUAAUUCUAGG	CUUGGGAAUUUAUGAUGAAAUCC	Tradução
spe-miR8001b-1-3p	Sopen06g023760.1	3.0	18.307	1	20	2142	2161	GGAUUUUCAUACUAAUUCU	AGGGAUUGGUGUGAAAGUUU	Clivagem
spe-miR8001b-1-3p	Sopen09g030610.2	3.0	18.545	1	20	1059	1078	GGAUUUUCAUACUAAUUCU	AGGAAUUCGUGUGAAAAUUA	Clivagem
spe-miR8001b-1-3p	Sopen09g030610.1	3.0	18.545	1	20	1059	1078	GGAUUUUCAUACUAAUUCU	AGGAAUUCGUGUGAAAAUUA	Clivagem
spe-miR8001b-1-3p	Sopen07g004840.1	3.0	20.667	1	20	1511	1530	GGAUUUUCAUACUAAUUCU	AGGAAUUAGGGUGGGAGUCC	Tradução
spe-miR8001b-1-3p	Sopen11g003770.1	2.5	11.78	1	20	1570	1589	GGAUUUUCAUACUAAUUCU	AGGAAUUGGCAAGAAAUCC	Tradução
spe-miR8001b-1-3p	Sopen01g012150.1	3.0	16.574	1	20	3320	3339	GGAUUUUCAUACUAAUUCU	AGGGAUUGGUUAUCAAUCC	Clivagem
spe-miR8001b-2-5p	Sopen04g036630.1	1.5	20.431	1	20	1139	1158	AUGGGGAUUAGUAUGAAAAU	AUUUUCAUGCUGAUCCUCAU	Clivagem
spe-miR8001b-2-5p	Sopen10g027460.1	3.0	20.428	1	21	1206	1226	AUGGGGAUUAGUAUGAAAAU	AAUUUUUGUGCUGAUUUCCA	Clivagem
spe-miR8001b-2-5p	Sopen07g023200.1	3.0	2.604	1	23	565	587	AUGGGGAUUAGUAUGAAAAUUG	CCAUUUCUUUAUUAAUCCCAA	Clivagem
spe-miR8001b-2-5p	Sopen09g033620.1	2.5	9.412	1	20	840	859	AUGGGGAUUAGUAUGAAAAU	AUCUUCUACUGGUCUCCA	Clivagem
spe-miR8001b-2-5p	Sopen03g005640.1	3.0	9.681	1	20	20	39	AUGGGGAUUAGUAUGAAAAU	GUUUUCGUACUAAUCCAAU	Clivagem
spe-miR8001b-2-5p	Sopen07g010250.1	3.0	10.918	1	23	1377	1399	AUGGGGAUUAGUAUGAAAAUUG	CACAUUUUCAUUGUAUCCUCAU	Tradução
spe-miR8001b-2-5p	Sopen10g032270.1	3.0	11.17	1	21	973	993	AUGGGGAUUAGUAUGAAAAU	GAUUUUUGAUACUGAUCCACA	Clivagem
spe-miR8001b-2-5p	Sopen03g036460.1	3.0	14.116	1	20	143	162	AUGGGGAUUAGUAUGAAAAU	GUUCUCGUACUAAUCCUUAU	Clivagem
spe-miR8005-3p.1	Sopen05g015980.1	3.0	19.134	1	22	1475	1496	UUUAGAGUUUAGGGUUUAGGGU	GUCCUAGACCAUUGACUCUAAA	Tradução
spe-miR8005-3p.2	Sopen09g009940.1	2.5	11.981	1	20	457	476	UUUAGGGUUUAAGGAUUAGG	CCUAAUUCUGAAGCUCUAAA	Tradução
spe-miR8005-3p.2	Sopen08g014800.1	3.0	16.487	1	23	661	683	UUUAGGGUUUAAGGAUUAGGCUU	GAUCCUAGUUCUGAAGCUCUAAA	Tradução
spe-miR8005-3p.2	Sopen12g022880.1	3.0	18.363	1	23	67	89	UUUAGGGUUUAAGGAUUAGGCUU	AAUCCUAAACCUGGAACCCUAG	Tradução
spe-miR8005-3p.2	Sopen08g011020.1	3.0	12.934	1	20	811	830	UUUAGGGUUUAAGGAUUAGG	CCUAAUUCUAAAGCUUUAAA	Tradução
spe-miR8005-3p.2	Sopen09g017460.1	3.0	23.944	1	23	1123	1145	UUUAGGGUUUAAGGAUUAGGCUU	GAACUUAAUACUCAAAACCCUAGA	Tradução
spe-miR8005-3p.2	Sopen07g027840.1	3.0	10.048	1	23	86	108	UUUAGGGUUUAAGGAUUAGGCUU	AGACCAAUCUGUAAACCCUAGA	Clivagem
spe-miR8005-3p.2	Sopen02g024540.1	3.0	1.455	1	20	29	48	UUUAGGGUUUAAGGAUUAGG	CCAAAACCUUAAACCCUAAU	Clivagem
spe-miR8005-3p.2	Sopen06g003880.1	3.0	13.278	1	20	88	107	UUUAGGGUUUAAGGAUUAGG	CCGAAUUCUAAAACCCUAGA	Tradução
spe-miR8005-5p	Sopen12g011510.1	3.0	20.964	1	22	287	308	UUUAGAGUUUAGGAUUUAGUGU	ACACUAGAUCUACACUUUGGA	Tradução
spe-miR8005-5p	Sopen06g002080.1	3.0	17.83	1	20	13	32	UUUAGAGUUUAGGAUUUAGU	ACAAAGUUCUUAACUCUAAA	Tradução
spe-miR8006-3p	Sopen12g023030.1	2.5	11.58	1	20	47	66	UAGUUUUUGGACGGCAGGGG	CGCCUUAUCGUCCAAAAACUA	Clivagem
spe-miR8007a-3p	Sopen02g026720.1	3.0	16.318	1	22	882	903	CGAAAAAUGAAAAGUGCCACAU	AAGUGGCACUCUUGAUUUUCC	Tradução
spe-miR8007a-3p	Sopen03g028600.1	3.0	19.522	1	22	2157	2178	CGAAAAAUGAAAAGUGCCACAU	AAGUGGCACUGCUUUAUUUUUG	Tradução
spe-miR8007a-5p	Sopen07g025500.1	3.0	10.176	1	24	580	603	AUGUGACACUUUUCGGAUUUCGAG	CUCGAAAUUCAAAAAGUUUCACAU	Clivagem
spe-miR8007a-5p	Sopen06g014220.2	2.0	16.401	1	23	195	217	AUGUGACACUUUUCGGAUUUCGA	UGGAAAUUCUGAAAGGUGUUGCAU	Clivagem
spe-miR8007a-5p	Sopen06g014220.1	2.0	16.401	1	23	915	937	AUGUGACACUUUUCGGAUUUCGA	UGGAAAUUCUGAAAGGUGUUGCAU	Clivagem
spe-miR8007a-5p	Sopen03g026000.1	2.0	16.997	1	20	642	661	AUGUGACACUUUUCGGAUUU	AAAUUUGAAAGGUGUUACAU	Clivagem

spe-miR8007a-5p	Sopen09g024740.1	3.0	13.453	1	24	918	941	AUGUGACACUUUUCGGAUUUCGAG	CUCAGAAUCCCAAAGGGUUACAU	Clivagem
spe-miR8007a-5p	Sopen11g002750.1	3.0	19.014	1	23	90	112	AUGUGACACUUUUCGGAUUUCGA	UGGAAAUCCGAAUAGUGUUACGA	Tradução
spe-miR8007a-5p	Sopen07g011150.2	3.0	18.163	1	21	3882	3902	AUGUGACACUUUUCGGAUUUC	GAAAUUUAGAAAUUGUUGCAU	Tradução
spe-miR8007a-5p	Sopen10g023000.1	3.0	20.703	1	22	4199	4220	AUGUGACACUUUUCGGAUUUCG	CCAGGUCUGGAAGGUGUUACAU	Clivagem
spe-miR8008-1-3p	Sopen06g017420.1	2.0	16.399	1	22	2297	2318	AUUUCAAGGAAAGCGACAGACA	UAUCUGUUGUUUCCUUGAAAA	Clivagem
spe-miR8008-1-3p	Sopen04g024980.1	3.0	23.316	1	20	2860	2879	AUUUCAAGGAAAGCGACAGA	UCUGUUGCUUUUUUGGAGG	Clivagem
spe-miR8008-1-3p	Sopen02g036040.1	2.5	17.718	1	20	323	342	AUUUCAAGGAAAGCGACAGA	UCGGUCGCUUUCCUUGGAAA	Clivagem
spe-miR8008-1-3p	Sopen11g029230.1	2.5	24.803	1	20	778	797	AUUUCAAGGAAAGCGACAGA	UUUGCUGCUUUUCUUGAAAU	Clivagem
spe-miR8008-1-3p	Sopen09g001990.1	2.5	20.748	1	20	643	662	AUUUCAAGGAAAGCGACAGA	UUUGCUGCUUUUCUUGAAAU	Clivagem
spe-miR8008-1-5p	Sopen02g024400.1	2.5	21.495	1	24	1360	1383	AAACCCAGAAAAGCGACGGACAAG	UUUUCCUGUCUCUUUUUCUGGGUUU	Clivagem
spe-miR8008-1-5p	Sopen09g029330.1	2.0	13.939	1	20	10	29	AAACCCAGAAAAGCGACGGA	UCCGUCGUUUUGUUGGGUUU	Tradução
spe-miR8008-1-5p	Sopen11g029250.2	3.0	15.935	1	24	3078	3101	AAACCCAGAAAAGCGACGGACAAG	CUACUCCUUUGAUUUUUUGGGUUU	Clivagem
spe-miR8008-1-5p	Sopen11g029250.1	3.0	15.935	1	24	2979	3002	AAACCCAGAAAAGCGACGGACAAG	CUACUCCUUUGAUUUUUUGGGUUU	Clivagem
spe-miR8008-1-5p	Sopen01g026780.1	3.0	22.747	1	20	210	230	AAACCCAGAAAA-GCGACGGA	UUUGUCGCGUUUUCUGGGUUU	Clivagem
spe-miR8008-2-3p	Sopen01g023950.1	3.0	17.687	1	21	126	146	AUUUCCAGAAAAGUGACGGAC	GUCUGUUUUUUUUCUGGGAAU	Clivagem
spe-miR8008-2-3p	Sopen03g040920.1	3.0	21.085	1	20	621	640	AUUUCCAGAAAAGUGACGGA	UCCGUCGCUUUGCUGGAAGG	Tradução
spe-miR8008-2-3p	Sopen09g016960.1	3.0	21.935	1	20	566	585	AUUUCCAGAAAAGUGACGGA	UCCUUCACAUUUUUGGAGAU	Clivagem
spe-miR8008-2-3p	Sopen02g010450.1	3.0	17.549	1	24	1424	1447	AUUUCCAGAAAAGUGACGGACAGU	AAUUUACUUCACAUUUCUGGAAAU	Clivagem
spe-miR8008-2-3p	Sopen09g023670.1	3.0	18.474	1	24	1939	1962	AUUUCCAGAAAAGUGACGGACAGU	AGUUUACUUCACAUUUCUGGAAAU	Clivagem
spe-miR8008-2-3p	Sopen10g032250.1	3.0	19.449	1	20	506	525	AUUUCCAGAAAAGUGACGGA	UGCAUCACUUAUCUGGAAAU	Tradução
spe-miR8008-2-5p	Sopen02g024400.1	3.0	21.495	1	24	1360	1383	AAACUCAGAAAAGCGACGGACAGA	UUUUCCUGUCUCUUUUUCUGGGUUU	Clivagem
spe-miR8008-2-5p	Sopen12g032720.1	2.5	18.509	1	21	33	53	AAACUCAGAAAAGCGACGGAC	GUACGAUGCUUUUCUGAGUUU	Clivagem
spe-miR8008-2-5p	Sopen09g029330.1	2.5	13.939	1	20	10	29	AAACUCAGAAAAGCGACGGA	UCCGUCGUUUUGUUGGGUUU	Tradução
spe-miR8008-2-5p	Sopen12g032710.1	3.0	13.565	1	21	33	53	AAACUCAGAAAAGCGACGGAC	GUACGAUGUUUUUCUGAGUUU	Clivagem
spe-miR8008a-1-3p	Sopen12g023700.1	3.0	21.416	1	21	1052	1072	AUUUCCAGAAAAGCGACGAAC	GUUCUUCGAUUUCCUGGAAAU	Tradução
spe-miR8008a-1-3p	Sopen11g009610.1	3.0	14.081	1	20	378	397	AUUUCCAGAAAAGCGACGAA	UUCGUUGAUUUCUUGGAAAU	Tradução
spe-miR8008a-1-3p	Sopen11g005910.2	3.0	13.699	1	19	1634	1653	AUUUCCAG-AAAAGCGACGA	UUGUUGCUUUUUGCUGGAAAU	Tradução
spe-miR8008a-1-3p	Sopen11g005910.1	3.0	13.699	1	19	1598	1617	AUUUCCAG-AAAAGCGACGA	UUGUUGCUUUUUGCUGGAAAU	Tradução
spe-miR8008a-2-5p	Sopen12g023700.1	3.0	21.416	1	21	1052	1072	AUUUCCAGAAAAGCGACGAAC	GUUCUUCGAUUUCCUGGAAAU	Tradução
spe-miR8008a-2-5p	Sopen11g009610.1	3.0	14.081	1	20	378	397	AUUUCCAGAAAAGCGACGAA	UUCGUUGAUUUCUUGGAAAU	Tradução
spe-miR8008a-2-5p	Sopen11g005910.2	3.0	13.699	1	19	1634	1653	AUUUCCAG-AAAAGCGACGA	UUGUUGCUUUUUGCUGGAAAU	Tradução
spe-miR8008a-2-5p	Sopen11g005910.1	3.0	13.699	1	19	1598	1617	AUUUCCAG-AAAAGCGACGA	UUGUUGCUUUUUGCUGGAAAU	Tradução
spe-miR8008b-1-5p	Sopen02g024400.1	2.5	21.495	1	24	1360	1383	AAACCCAGAAAAGCGACGGACAGG	UUUUCCUGUCUCUUUUUCUGGGUUU	Clivagem
spe-miR8008b-1-5p	Sopen09g029330.1	2.0	13.939	1	20	10	29	AAACCCAGAAAAGCGACGGA	UCCGUCGUUUUGUUGGGUUU	Tradução
spe-miR8008b-1-5p	Sopen01g026780.1	3.0	22.747	1	20	210	230	AAACCCAGAAAA-GCGACGGA	UUUGUCGCGUUUUCUGGGUUU	Clivagem

spe-miR8008b-1-5p	Sopen11g029250.2	3.0	15.935	1	20	3082	3101	AAACCCAGAAAAGCGACGGA	UCCUUUGAUUUUUUGGGUUU	Clivagem
spe-miR8008b-1-5p	Sopen11g029250.1	3.0	15.935	1	20	2983	3002	AAACCCAGAAAAGCGACGGA	UCCUUUGAUUUUUUGGGUUU	Clivagem
spe-miR8008b-2-5p	Sopen02g024400.1	2.0	21.495	1	20	1364	1383	AAACCCAGAAAAGCGACAGA	CCUGUCUCUUUUUCUGGGUUU	Clivagem
spe-miR8008b-2-5p	Sopen01g026780.1	2.5	22.747	1	23	207	230	AAACCCAGAAAA-GCGACAGACUU	GAAUUUGUCGCGUUUUUCUGGGUUU	Clivagem
spe-miR8008b-3-5p	Sopen09g029330.1	2.0	13.939	1	20	10	29	AAACCCAGAAAAGCGACGGA	UCCGUCGUUUUUGUUGGGUUU	Tradução
spe-miR8008b-3-5p	Sopen02g024400.1	2.5	21.495	1	20	1364	1383	AAACCCAGAAAAGCGACGGA	CCUGUCUCUUUUUCUGGGUUU	Clivagem
spe-miR8008b-3-5p	Sopen01g026780.1	3.0	22.747	1	20	210	230	AAACCCAGAAAA-GCGACGGA	UUUGUCGCGUUUUUCUGGGUUU	Clivagem
spe-miR8008b-3-5p	Sopen11g029250.2	3.0	15.935	1	20	3082	3101	AAACCCAGAAAAGCGACGGA	UCCUUUGAUUUUUUGGGUUU	Clivagem
spe-miR8008b-3-5p	Sopen11g029250.1	3.0	15.935	1	20	2983	3002	AAACCCAGAAAAGCGACGGA	UCCUUUGAUUUUUUGGGUUU	Clivagem
spe-miR8011-3p	Sopen02g031400.1	2.5	16.234	1	21	939	959	ACAAAAAGAAGUCUCACACAA	UUGUGUGAGACUUCUUUUAGC	Clivagem
spe-miR8011-3p	Sopen11g005360.1	3.0	13.147	1	22	452	473	ACAAAAAGAAGUCUCACACAAC	GUCGUGUGAGACCUCUUUUUGA	Tradução
spe-miR8011-5p	Sopen08g027880.2	2.5	13.595	1	21	1075	1095	ACUCAUUUUUGUCUCACAAAA	UUUUUGUGAUAGGAAAAUGAGU	Tradução
spe-miR8011-5p	Sopen08g027880.1	2.5	13.595	1	21	1036	1056	ACUCAUUUUUGUCUCACAAAA	UUUUUGUGAUAGGAAAAUGAGU	Tradução
spe-miR8011-5p	Sopen06g020190.1	3.0	14.191	1	21	472	492	ACUCAUUUUUGUCUCACAAAA	UUUUUUUGGUACAAAAGUGAGU	Clivagem
spe-miR8011-5p	Sopen06g027730.1	3.0	17.953	1	21	279	298	ACUCAUUUUUGUCUCACAAAA	UUUUUGUG-GAUAAAGAUGAGU	Clivagem
spe-miR8011-5p	Sopen06g017590.2	3.0	13.247	1	20	1509	1528	ACUCAUUUUUGUCUCACAAA	UUUGUCUGACAAGGAUGAGU	Clivagem
spe-miR8011-5p	Sopen06g017590.1	3.0	13.247	1	20	1506	1525	ACUCAUUUUUGUCUCACAAA	UUUGUCUGACAAGGAUGAGU	Clivagem
spe-miR8011-5p	Sopen04g008660.1	3.0	16.6	1	20	3698	3717	ACUCAUUUUUGUCUCACAAA	UUGAUGAGAAAAAAUGAGU	Tradução
spe-miR8011a-1-3p	Sopen10g025120.1	3.0	14.67	1	24	1613	1636	AAUAAAAAGAAGUCUCACGCAACU	AGUCGUGUGAGAUCUGUUUUUAUU	Tradução
spe-miR8011a-1-3p	Sopen07g029080.1	3.0	14.142	1	24	1592	1615	AAUAAAAAGAAGUCUCACGCAACU	AGUCUUGUGAGAUUUUGUUUUUAUU	Tradução
spe-miR8011a-1-3p	Sopen07g031980.1	3.0	14.142	1	24	1592	1615	AAUAAAAAGAAGUCUCACGCAACU	AGUCUUGUGAGAUUUUGUUUUUAUU	Tradução
spe-miR8011a-1-3p	Sopen01g027350.1	3.0	14.142	1	24	1592	1615	AAUAAAAAGAAGUCUCACGCAACU	AGUCUUGUGAGAUUUUGUUUUUAUU	Tradução
spe-miR8011a-1-5p	Sopen04g034190.1	3.0	15.209	1	24	393	416	UUGUGUGAGGUCUCUUUUUGUUUU	AAGGCAAAAAGAGUCCUCAUGUGA	Tradução
spe-miR8011a-1-5p	Sopen08g004800.1	3.0	17.651	1	23	541	563	UUGUGUGAGGUCUCUUUUUGUUUU	AAGCAAAAAGACACCUCGAACAA	Clivagem
spe-miR8011a-1-5p	Sopen01g052440.1	3.0	18.16	1	23	1119	1141	UUGUGUGAGGUCUCUUUUUGUUUU	GAACAAAAGGAAAUCUUACAUA	Clivagem
spe-miR8011a-1-5p	Sopen02g021060.1	3.0	18.998	1	24	190	213	UUGUGUGAGGUCUCUUUUUGUUUU	GAGGCAGAAUAGGCCUUGCACAA	Clivagem
spe-miR8011a-1-5p	Sopen10g002310.1	3.0	12.53	1	22	370	391	UUGUGUGAGGUCUCUUUUUGUUUU	GACAGAAAGGGACCUUACAUGG	Clivagem
spe-miR8011a-1-5p	Sopen06g033450.1	2.5	18.133	1	21	2531	2551	UUGUGUGAGGUCUCUUUUUGUUUU	GCAGAGGGAGACCUCGUACAA	Clivagem
spe-miR8011a-1-5p	Sopen10g017620.1	3.0	11.402	1	24	646	669	UUGUGUGAGGUCUCUUUUUGUUUU	AACGAGAAAAGAGAGCUCAUACAA	Tradução
spe-miR8011a-1-5p	Sopen03g029250.1	3.0	13.494	1	24	498	521	UUGUGUGAGGUCUCUUUUUGUUUU	GGGGGAAGAAGAGACUACACACAA	Clivagem
spe-miR8011a-1-5p	Sopen10g033720.1	3.0	17.824	1	22	879	900	UUGUGUGAGGUCUCUUUUUGUUUU	GGCAAAGAGUGAUCUCGUACAA	Clivagem
spe-miR8011a-1-5p	Sopen05g031760.1	3.0	18.666	1	20	250	269	UUGUGUGAGGUCUCUUUUUGUUUU	AAGAAAGAGACCACAUACAA	Clivagem
spe-miR8011a-2-3p	Sopen07g007410.1	2.5	17.855	1	21	815	835	AAUAAAAAGAAGCCUCACAGA	UUUGUGAGGUUUUCUUGUUUUU	Clivagem
spe-miR8011a-2-3p	Sopen08g019750.1	2.5	17.774	1	21	1214	1234	AAUAAAAAGAAGCCUCACAGA	UUUGUGAGGUUUUCUUGUUUUU	Clivagem
spe-miR8011a-2-3p	Sopen07g029080.1	3.0	14.142	1	24	1592	1615	AAUAAAAAGAAGCCUCACAGAACU	AGUCUUGUGAGAUUUUGUUUUUAUU	Tradução

spe-miR8011a-2-3p	Sopen01g027350.1	3.0	14.142	1	24	1592	1615	AAUAAAAAGAAGCCUCACAGAACU	AGUCUUGUGAGAUUUUUUUUAUU	Tradução
spe-miR8011a-2-3p	Sopen07g031980.1	3.0	14.142	1	24	1592	1615	AAUAAAAAGAAGCCUCACAGAACU	AGUCUUGUGAGAUUUUUUUUAUU	Tradução
spe-miR8013-3p	Sopen05g031930.1	3.0	20.592	1	23	240	262	AGAAGAAAAUCGCUUCGUCAGGA	UCAUGGAGAAGCGGUUUUCUCC	Clivagem
spe-miR8013-3p	Sopen04g012040.3	2.5	9.346	1	20	2187	2206	AGAAGAAAAUCGCUUCGUCUA	UGAUGAAGAGAUUUUUUUUUU	Clivagem
spe-miR8013-3p	Sopen06g014210.1	2.5	12.108	1	20	2631	2650	AGAAGAAAAUCGCUUCGUCUA	UGAUGAAGAGAUUUUUUUUUU	Clivagem
spe-miR8013-3p	Sopen02g006340.1	2.5	15.126	1	20	3015	3034	AGAAGAAAAUCGCUUCGUCUA	UGAUGAAGAGAUUUUUUUUUU	Clivagem
spe-miR8013-3p	Sopen06g012790.1	2.5	10.213	1	20	3093	3112	AGAAGAAAAUCGCUUCGUCUA	UGAUGAAGAGAUUUUUUUUUU	Clivagem
spe-miR8013-3p	Sopen01g022020.1	2.5	6.497	1	20	3707	3726	AGAAGAAAAUCGCUUCGUCUA	UGAUGAAGAGAUUUUUUUUUU	Clivagem
spe-miR8013-3p	Sopen07g004910.1	2.5	10.596	1	20	3819	3838	AGAAGAAAAUCGCUUCGUCUA	UGAUGAAGAGAUUUUUUUUUU	Clivagem
spe-miR8013-3p	Sopen04g012040.2	2.5	9.346	1	20	3912	3931	AGAAGAAAAUCGCUUCGUCUA	UGAUGAAGAGAUUUUUUUUUU	Clivagem
spe-miR8013-3p	Sopen04g019950.1	3.0	20.29	1	21	1582	1602	AGAAGAAAAUCGCUUCGUCAG	UUGGUCAAGGGAUUUUCUUCU	Clivagem
spe-miR8013-3p	Sopen06g031830.2	3.0	10.65	1	20	414	433	AGAAGAAAAUCGCUUCGUCUA	UCACCAAGCGAUUUUCUUCA	Clivagem
spe-miR8013-3p	Sopen06g031830.1	3.0	10.65	1	20	414	433	AGAAGAAAAUCGCUUCGUCUA	UCACCAAGCGAUUUUCUUCA	Clivagem
spe-miR8013-3p	Sopen04g025150.2	3.0	20.235	1	20	2797	2816	AGAAGAAAAUCGCUUCGUCUA	GGAAGAAGAGAUUUUCUUCU	Clivagem
spe-miR8013-3p	Sopen04g025150.1	3.0	20.235	1	20	2818	2837	AGAAGAAAAUCGCUUCGUCUA	GGAAGAAGAGAUUUUCUUCU	Clivagem
spe-miR8013-3p	Sopen03g022900.2	3.0	10.601	1	20	4578	4597	AGAAGAAAAUCGCUUCGUCUA	UAACGAAGGGCUUUUCUUCU	Tradução
spe-miR8013-3p	Sopen03g022900.1	3.0	10.601	1	20	4581	4600	AGAAGAAAAUCGCUUCGUCUA	UAACGAAGGGCUUUUCUUCU	Tradução
spe-miR8016-3p	Sopen06g027450.1	3.0	22.673	1	22	1527	1548	AUUUUUGAAUGGAAGGCCCAUG	CAUGGGCCUCCAUUUACAGGU	Clivagem
spe-miR8016-3p	Sopen03g023080.1	3.0	14.19	1	24	2050	2073	AUUUUUGAAUGGAAGGCCCAUGUG	UAUAUGGGCCUACCAUCGAAAAU	Clivagem
spe-miR8016-3p	Sopen04g031030.1	3.0	20.506	1	21	473	493	AUUUUUGAAUGGAAGGCCCAU	AUGGGCGUUUCAUUCAAAGAA	Clivagem
spe-miR8016-3p	Sopen01g053980.1	2.5	24.467	1	23	525	547	AUUUUUGAAUGGAAGGCCCAUGU	GCUUGUGCCUCCAUUCACAAU	Clivagem
spe-miR8016-3p	Sopen01g037560.1	3.0	21.318	1	23	656	678	AUUUUUGAAUGGAAGGCCCAUGU	ACCUGGGACCUUUUAUUCAAAAU	Clivagem
spe-miR8016-3p	Sopen11g008100.1	3.0	19.552	1	21	3419	3439	AUUUUUGAAUGGAAGGCCCAU	AUGGGUAUUUCUUUCAAUAAU	Tradução
spe-miR8016-3p	Sopen08g015240.1	3.0	20.274	1	21	647	667	AUUUUUGAAUGGAAGGCCCAU	AUGGGUAUUUCUUUCAAUAAU	Tradução
spe-miR8019	Sopen00g003330.1	2.5	11.567	1	23	513	535	UAAAGAAUGACCUGGUUUGAGUU	AAAACAAUUCAGAUCAUUCUUUA	Tradução
spe-miR8019	Sopen05g022460.1	2.5	10.025	1	23	1269	1291	UAAAGAAUGACCUGGUUUGAGUU	AAAACAAUUCAGAUCAUUCUUUA	Tradução
spe-miR8019	Sopen01g048140.1	3.0	18.535	1	23	363	385	UAAAGAAUGACCUGGUUUGAGUU	AAAUCAAUCAGAUUCUUCUUUA	Tradução
spe-miR8019	Sopen01g033290.1	3.0	9.435	1	21	121	141	UAAAGAAUGACCUGGUUUGAG	UUUAAAACAGUUCGUUCUUUA	Tradução
spe-miR8020-5p	Sopen11g005690.1	3.0	19.5	1	24	936	959	AAUUUCAUUGAGUAUGUUGUUGUU	AGCAACAACAUUCUCAAUGAGCU	Clivagem
spe-miR8020-5p	Sopen06g016060.1	2.5	9.751	1	24	478	501	AAUUUCAUUGAGUAUGUUGUUGUU	GAGAAUAAUUAUUCAAUGAAAUG	Clivagem
spe-miR8020-5p	Sopen04g014310.1	2.0	14.032	1	21	74	94	AAUUUCAUUGAGUAUGUUGUUGUU	AACAACAUUAUUCAAUGGAAUC	Clivagem
spe-miR8020-5p	Sopen04g021990.1	3.0	15.543	1	24	808	831	AAUUUCAUUGAGUAUGUUGUUGUU	GAGAAUAAUUAUUAUUGAAAUG	Clivagem
spe-miR8020-5p	Sopen10g011800.1	2.5	15.606	1	24	760	783	AAUUUCAUUGAGUAUGUUGUUGUU	GAGGAUAAUUAUUCAAUGAAAUG	Clivagem
spe-miR8020-5p	Sopen09g022720.1	3.0	13.896	1	24	634	657	AAUUUCAUUGAGUAUGUUGUUGUU	GGUAAUAAUUAUCUGAGUGAAGUU	Tradução
spe-miR8020-5p	Sopen10g020240.1	3.0	20.953	1	24	727	750	AAUUUCAUUGAGUAUGUUGUUGUU	GAAGAUAAUGUAUUCAAUGAAAUG	Clivagem

spe-miR8020-5p	Sopen02g019190.1	3.0	16.494	1	22	1074	1095	AAUUUCAUUGAGUAUGUUGUUG	CAACAAGAUACCCAGUGGAAUU	Tradução
spe-miR8020-5p	Sopen09g027820.3	2.5	18.49	1	20	1142	1161	AAUUUCAUUGAGUAUGUUGU	AUGAUUAUUAUCAAUGAGAUU	Clivagem
spe-miR8020-5p	Sopen09g027790.1	2.5	17.124	1	20	113	132	AAUUUCAUUGAGUAUGUUGU	AUGAUUAUUAUCAAUGAGAUU	Clivagem
spe-miR8020-5p	Sopen10g001380.1	3.0	19.029	1	24	262	285	AAUUUCAUUGAGUAUGUUGUUGU	GGUGAAUACAUACUUGAUGAAAUU	Clivagem
spe-miR8020-5p	Sopen03g034790.1	3.0	15.205	1	20	1328	1347	AAUUUCAUUGAGUAUGUUGU	CCAAUGUACUUAUUGAAGUU	Clivagem
spe-miR8020-5p	Sopen05g006140.1	3.0	14.077	1	22	72	93	AAUUUCAUUGAGUAUGUUGUUG	UGAGAAUGUACUUGAUGAAAUU	Clivagem
spe-miR8020-5p	Sopen04g008930.1	3.0	13.863	1	22	185	206	AAUUUCAUUGAGUAUGUUGUUG	CAACACCAUUGUCAUUGAAAUU	Clivagem
spe-miR8020-5p	Sopen03g019320.1	3.0	12.665	1	21	583	603	AAUUUCAUUGAGUAUGUUGUU	GAAAUUAUUAUCAAUGAAUG	Clivagem
spe-miR8020-5p	Sopen01g048360.1	3.0	19.595	1	20	203	222	AAUUUCAUUGAGUAUGUUGU	AUGACGUAUUCGAUGGAAUU	Clivagem
spe-miR8020-5p	Sopen12g016250.1	3.0	15.337	1	21	1097	1117	AAUUUCAUUGAGUAUGUUGUU	AACAACCUAUACAUGGAAUU	Tradução
spe-miR8024-3p	Sopen12g025220.1	3.0	16.216	1	24	3410	3433	UUGGAGGAUUUGAAGACUUCAACU	GGUUGAAGUAUUAUCAAUACUCUAA	Clivagem
spe-miR8024-3p	Sopen12g020090.1	1.5	9.303	1	21	1221	1241	UUGGAGGAUUUGAAGACUUCA	UGAAGUCGUCAAAUCUUCUCAA	Clivagem
spe-miR8024-3p	Sopen07g022060.1	3.0	16.659	1	22	272	293	UUGGAGGAUUUGAAGACUUCAA	UUGAUGUCUUGAAAUUCUUCAA	Clivagem
spe-miR8024-3p	Sopen06g020550.1	3.0	22.141	1	21	717	737	UUGGAGGAUUUGAAGACUUCA	UGGAGUUUACAAAUUCUUCAA	Clivagem
spe-miR8024-3p	Sopen11g014030.1	2.5	19.501	1	22	458	479	UUGGAGGAUUUGAAGACUUCAA	UGGAAAUCUUUAAGUUCUCCAA	Clivagem
spe-miR8024-3p	Sopen12g013080.1	3.0	17.795	1	20	17	36	UUGGAGGAUUUGAAGACUUC	GAGGUCUUAAGUUCUCUUAU	Clivagem
spe-miR8024-3p	Sopen10g003050.1	2.5	21.806	1	20	1431	1450	UUGGAGGAUUUGAAGACUUC	GAAGCCUUCAGGUCCUUCAA	Clivagem
spe-miR8024-3p	Sopen08g018650.1	2.5	19.454	1	20	511	530	UUGGAGGAUUUGAAGACUUC	GAAGCCUUCAAAUCUUCUUGA	Clivagem
spe-miR8024-3p	Sopen05g015140.2	2.5	18.272	1	20	723	742	UUGGAGGAUUUGAAGACUUC	GAGGUUUGCAGAUCUCCUCAA	Clivagem
spe-miR8024-3p	Sopen05g015140.4	2.5	18.272	1	20	642	661	UUGGAGGAUUUGAAGACUUC	GAGGUUUGCAGAUCUCCUCAA	Clivagem
spe-miR8024-3p	Sopen05g015140.3	2.5	18.272	1	20	639	658	UUGGAGGAUUUGAAGACUUC	GAGGUUUGCAGAUCUCCUCAA	Clivagem
spe-miR8024-3p	Sopen04g007800.2	3.0	8.357	1	20	1809	1828	UUGGAGGAUUUGAAGACUUC	UAAGACUUCAAGUUCUCCAA	Clivagem
spe-miR8024-3p	Sopen04g007800.2	3.0	10.488	1	20	2283	2302	UUGGAGGAUUUGAAGACUUC	UAAGACUUCAAGUUCUCCAA	Clivagem
spe-miR8024-3p	Sopen04g007800.1	3.0	8.357	1	20	1809	1828	UUGGAGGAUUUGAAGACUUC	UAAGACUUCAAGUUCUCCAA	Clivagem
spe-miR8024-3p	Sopen08g029950.1	3.0	16.021	1	24	717	740	UUGGAGGAUUUGAAGACUUCAACU	AGGAGAAGUAUCCGAAUCUCCAA	Clivagem
spe-miR8024-3p	Sopen12g004840.1	3.0	13.558	1	24	221	244	UUGGAGGAUUUGAAGACUUCAACU	AAUCGAAGUCCUUAACUCCUCUAA	Tradução
spe-miR8024-5p.1	Sopen12g025220.1	2.0	16.216	1	24	3410	3433	UUGGAGUAUUUGAAGACUUUAGCU	GGUUGAAGUAUUAUCAAUACUCUAA	Clivagem
spe-miR8024-5p.1	Sopen06g014220.2	2.0	18.09	1	22	2030	2051	UUGGAGUAUUUGAAGACUUUAG	CUAAAGUAUUAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen06g014220.1	2.0	18.09	1	22	2750	2771	UUGGAGUAUUUGAAGACUUUAG	CUAAAGUAUUAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen05g026130.2	2.5	17.895	1	22	23	44	UUGGAGUAUUUGAAGACUUUAG	CUGAAGUAUUAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen06g011480.1	2.5	21.98	1	22	890	911	UUGGAGUAUUUGAAGACUUUAG	CUGAAGUAUUAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen05g023250.2	2.5	23.507	1	22	962	983	UUGGAGUAUUUGAAGACUUUAG	CUGAAGUAUUAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen01g022390.1	2.5	21.191	1	22	1157	1178	UUGGAGUAUUUGAAGACUUUAG	CUGAAGUAUUAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen00g008330.1	2.5	20.636	1	22	1154	1175	UUGGAGUAUUUGAAGACUUUAG	CUGAAGUAUUAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen10g011960.1	2.5	21.587	1	22	1172	1193	UUGGAGUAUUUGAAGACUUUAG	CUGAAGUAUUAUCAAUACUUUAA	Clivagem

spe-miR8024-5p.1	Sopen03g026040.1	2.5	22.285	1	22	1448	1469	UUGGAGUAAUUUGAAGACUUUAG	CUGAAGUAAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen11g011880.1	2.5	20.749	1	22	2240	2261	UUGGAGUAAUUUGAAGACUUUAG	CUGAAGUAAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen05g026130.1	2.5	21.503	1	22	2705	2726	UUGGAGUAAUUUGAAGACUUUAG	CUGAAGUAAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen05g023250.1	2.5	23.507	1	22	3203	3224	UUGGAGUAAUUUGAAGACUUUAG	CUGAAGUAAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen05g013910.1	2.5	23.867	1	22	3416	3437	UUGGAGUAAUUUGAAGACUUUAG	CUGAAGUAAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen06g011460.1	2.5	22.658	1	22	3506	3527	UUGGAGUAAUUUGAAGACUUUAG	CUGAAGUAAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen04g025080.1	3.0	14.67	1	23	43	65	UUGGAGUAAUUUGAAGACUUUAGC	GUUGAGGUCAUCAAUACUUCAG	Clivagem
spe-miR8024-5p.1	Sopen04g025080.1	3.0	13.381	1	23	499	521	UUGGAGUAAUUUGAAGACUUUAGC	GUUGAGGUCAUCAAUACUUCAG	Clivagem
spe-miR8024-5p.1	Sopen06g013860.1	3.0	17.6	1	24	144	167	UUGGAGUAAUUUGAAGACUUUAGCU	AGCCAAGGUCAUCAAUACUGCAA	Clivagem
spe-miR8024-5p.1	Sopen04g023980.1	2.5	20.673	1	21	219	239	UUGGAGUAAUUUGAAGACUUUA	UGAAGUAAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen04g010770.1	3.0	20.453	1	24	405	428	UUGGAGUAAUUUGAAGACUUUAGCU	AACUAAAGUAAUCAAACACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen04g014800.1	3.0	19.611	1	24	450	473	UUGGAGUAAUUUGAAGACUUUAGCU	AACUAAAGUAAUCAAACACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen07g016630.1	3.0	13.07	1	24	193	216	UUGGAGUAAUUUGAAGACUUUAGCU	AGCAAAAGCCUACAAUAGCUUCAA	Clivagem
spe-miR8024-5p.1	Sopen00g003220.1	2.5	15.87	1	21	530	550	UUGGAGUAAUUUGAAGACUUUA	UUAAGUCUUCGAAUUAUUCUAA	Clivagem
spe-miR8024-5p.1	Sopen01g012780.1	2.5	21.034	1	21	1233	1253	UUGGAGUAAUUUGAAGACUUUA	UGAAGUAAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen07g005830.1	3.0	14.992	1	24	1573	1596	UUGGAGUAAUUUGAAGACUUUAGCU	AGCAAAAGCCUACAAUAGCUUCAA	Clivagem
spe-miR8024-5p.1	Sopen04g013960.1	3.0	18.225	1	22	1364	1385	UUGGAGUAAUUUGAAGACUUUAG	CUGAAGUAAUCAAACACUUCAA	Clivagem
spe-miR8024-5p.1	Sopen03g019980.1	3.0	18.377	1	22	2735	2756	UUGGAGUAAUUUGAAGACUUUAG	CUAAAAUAAUCAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen01g053050.1	3.0	14.025	1	20	30	49	UUGGAGUAAUUUGAAGACUUU	GAAGUCUUCAGAUUUUCCCA	Clivagem
spe-miR8024-5p.1	Sopen12g024200.1	3.0	15.875	1	20	708	727	UUGGAGUAAUUUGAAGACUUU	GAAGUCUUCAGAUUUUUCAG	Clivagem
spe-miR8024-5p.1	Sopen01g041600.1	3.0	11.784	1	20	432	451	UUGGAGUAAUUUGAAGACUUU	UAGUUCUUCAAUUGCUCCAA	Clivagem
spe-miR8024-5p.1	Sopen01g041610.1	3.0	11.784	1	20	432	451	UUGGAGUAAUUUGAAGACUUU	UAGUUCUUCAAUUGCUCCAA	Clivagem
spe-miR8024-5p.1	Sopen03g032440.1	3.0	18.856	1	20	954	973	UUGGAGUAAUUUGAAGACUUU	AAAGGCUUCAAUUGUCCAC	Clivagem
spe-miR8024-5p.1	Sopen08g017350.1	3.0	16.6	1	20	6397	6416	UUGGAGUAAUUUGAAGACUUU	GAAGUCAUUAAUACUUUAA	Clivagem
spe-miR8024-5p.1	Sopen05g033120.1	3.0	18.798	1	20	1359	1378	UUGGAGUAAUUUGAAGACUUU	AAAGGCUUUGGAUUAUCCAA	Clivagem
spe-miR8024-5p.1	Sopen05g034750.1	3.0	16.565	1	20	715	734	UUGGAGUAAUUUGAAGACUUU	AAAGUUCUCAGGUACUUCAA	Clivagem
spe-miR8024-5p.1	Sopen12g028710.1	2.5	3.196	1	20	180	199	UUGGAGUAAUUUGAAGACUUU	AAUCUCUUCAAUACUUCAA	Clivagem
spe-miR8024-5p.1	Sopen03g032890.1	3.0	14.64	1	20	574	593	UUGGAGUAAUUUGAAGACUUU	AAGGUUUUCAAGAACUUCAA	Clivagem
spe-miR8024-5p.1	Sopen02g022400.1	3.0	15.939	1	24	578	601	UUGGAGUAAUUUGAAGACUUUAGCU	AGAAAAAGUGGUCAGAUGCUCCAA	Clivagem
spe-miR8024-5p.2	Sopen09g022470.1	3.0	20.692	1	23	544	566	UUGGAGGAUUUAAAGACUUCAGC	GUUGAAGAUUUUAAGUUCUUCAA	Clivagem
spe-miR8024-5p.2	Sopen09g025680.1	3.0	17.297	1	24	596	619	UUGGAGGAUUUAAAGACUUCAGCU	AAUUGAAGUUUUUAGGUCUUUCAG	Clivagem
spe-miR8024-5p.2	Sopen08g028750.1	3.0	23.883	1	23	955	977	UUGGAGGAUUUAAAGACUUCAGC	GCCGAGGUCUUUGAAUUUUUCAG	Clivagem
spe-miR8024-5p.2	Sopen01g004760.1	3.0	13.211	1	23	933	955	UUGGAGGAUUUAAAGACUUCAGC	GAUGAAGUUGUUGAUUCUCCAG	Clivagem
spe-miR8024-5p.2	Sopen11g014030.1	2.0	19.501	1	20	460	479	UUGGAGGAUUUAAAGACUUC	GAAAUUUUAAGUUCUCCAA	Clivagem
spe-miR8024-5p.2	Sopen12g020090.1	2.5	9.303	1	21	1221	1241	UUGGAGGAUUUAAAGACUUCA	UGAAGUCGUCAAUCCUUCAA	Clivagem

spe-miR8024-5p.2	Sopen09g014590.1	3.0	19.656	1	20	3564	3583	UUGGAGGAUUUAAAGACUUC	UGAGUCUUUGAUCCUCCGA	Clivagem
spe-miR8024-5p.2	Sopen07g022060.1	3.0	16.659	1	22	272	293	UUGGAGGAUUUAAAGACUUCAG	UUGAUGUCUUGAAAUUCUUCAA	Clivagem
spe-miR8024-5p.2	Sopen04g007450.1	3.0	17.106	1	22	200	221	UUGGAGGAUUUAAAGACUUCAG	UUGCAUUCUUUAAAUCUUCUAA	Clivagem
spe-miR8024-5p.2	Sopen04g007480.1	3.0	18.373	1	22	191	212	UUGGAGGAUUUAAAGACUUCAG	UUGCAUUCUUUAAAUCUUCUAA	Clivagem
spe-miR8024-5p.2	Sopen04g007460.1	3.0	17.439	1	22	182	203	UUGGAGGAUUUAAAGACUUCAG	UUGCAUUCUUUAAAUCUUCUAA	Clivagem
spe-miR8024-5p.2	Sopen04g031570.1	3.0	11.516	1	24	6	28	UUGGAGGAUUUAAAGACUUCAGCU	ACUUGAAG-CUUUGAAUUCUCCAA	Clivagem
spe-miR8024-5p.2	Sopen12g004840.1	2.5	13.558	1	20	225	244	UUGGAGGAUUUAAAGACUUC	GAAGUCCUUAACUCCUCUAA	Tradução
spe-miR8024-5p.2	Sopen06g003870.1	3.0	22.194	1	22	1327	1348	UUGGAGGAUUUAAAGACUUCAG	CGGAAGGCUUUGACCCUCCAG	Clivagem
spe-miR8024a-3p.1	Sopen12g020090.1	2.5	9.303	1	22	1220	1241	UUGAAUGAUUUGAAGACUUCAU	AUGAAGUCGUCAAAUCUUCUAA	Clivagem
spe-miR8024a-3p.1	Sopen10g002900.1	2.0	22.583	1	20	478	497	UUGAAUGAUUUGAAGACUUC	GAGGUCUUUGGAUCAUUCUAA	Clivagem
spe-miR8024a-3p.2	Sopen09g002050.1	3.0	16.641	1	24	248	271	UUGGAGGAUUUGAAGAUUUCUACU	AGUUGAAAUCUUCAGGUCCUUUAU	Clivagem
spe-miR8024a-3p.2	Sopen07g003790.1	3.0	21.944	1	22	913	934	UUGGAGGAUUUGAAGAUUUCUAA	UUGAAAUCUUCAAAUGAUCCAA	Clivagem
spe-miR8024a-3p.2	Sopen11g014030.1	1.5	19.501	1	22	458	479	UUGGAGGAUUUGAAGAUUUCUAA	UGGAAAUCUUUAAGUUCUCCAA	Clivagem
spe-miR8024a-3p.2	Sopen09g003790.1	3.0	15.105	1	24	2057	2080	UUGGAGGAUUUGAAGAUUUCUACU	AUUUGAAAUCUCCAAAUCUUUUAG	Clivagem
spe-miR8024a-3p.2	Sopen12g020090.1	2.0	9.303	1	21	1221	1241	UUGGAGGAUUUGAAGAUUUCA	UGAAGUCGUCAAAUCUUCUAA	Clivagem
spe-miR8024a-3p.2	Sopen10g031280.1	2.5	11.494	1	21	969	989	UUGGAGGAUUUGAAGAUUUCA	UGAAAUCUUCAAAACCUUUAG	Clivagem
spe-miR8024a-3p.2	Sopen07g006580.1	3.0	6.029	1	20	210	229	UUGGAGGAUUUGAAGAUUUC	UUCAUCUUCAAAUCUCCAA	Clivagem
spe-miR8024a-3p.2	Sopen04g036150.1	3.0	13.594	1	23	1444	1466	UUGGAGGAUUUGAAGAUUUCUAC	GCUGAAAUCUUGAAGCUUUCUAA	Clivagem
spe-miR8024a-3p.2	Sopen05g008830.1	2.5	19.162	1	24	4183	4206	UUGGAGGAUUUGAAGAUUUCUACU	AGACGAGAUUUCAGGUCCUCCAA	Clivagem
spe-miR8024a-3p.2	Sopen06g010830.1	3.0	19.864	1	24	1074	1097	UUGGAGGAUUUGAAGAUUUCUACU	GGAUGAAAUCUACCAUUCUCCAG	Tradução
spe-miR8024a-3p.2	Sopen06g024840.1	3.0	14.723	1	20	840	859	UUGGAGGAUUUGAAGAUUUC	CAAAUCUUCAGAUUCUUCAG	Clivagem
spe-miR8024a-3p.2	Sopen00g008760.2	3.0	18.092	1	20	189	208	UUGGAGGAUUUGAAGAUUUC	UAAAUCUUCAGAUUCUUCAG	Clivagem
spe-miR8024a-3p.2	Sopen00g008760.1	3.0	18.024	1	20	189	208	UUGGAGGAUUUGAAGAUUUC	UAAAUCUUCAGAUUCUUCAG	Clivagem
spe-miR8024a-3p.2	Sopen04g014060.1	3.0	2.152	1	20	332	351	UUGGAGGAUUUGAAGAUUUC	CAAACCUUCAAAUCUCCAU	Clivagem
spe-miR8024a-3p.2	Sopen01g033720.1	3.0	5.483	1	20	411	430	UUGGAGGAUUUGAAGAUUUC	AAAAUCUUCUAGUCCUUCUAA	Tradução
spe-miR8024a-3p.2	Sopen09g004560.1	3.0	16.569	1	20	2982	3001	UUGGAGGAUUUGAAGAUUUC	GAAAUCUUCUAAAGCCUACAG	Clivagem
spe-miR8024a-3p.2	Sopen03g010960.1	3.0	18.786	1	20	171	190	UUGGAGGAUUUGAAGAUUUC	CAAAUCUUUUAGUCCUCCAA	Tradução
spe-miR8024a-3p.2	Sopen10g003050.1	3.0	21.806	1	20	1431	1450	UUGGAGGAUUUGAAGAUUUC	GAAGCCUUCAGGUCCUUCUAA	Clivagem
spe-miR8024a-3p.2	Sopen08g018650.1	3.0	19.454	1	20	511	530	UUGGAGGAUUUGAAGAUUUC	GAAGCCUUCUAAUCCUUUGA	Clivagem
spe-miR8024a-3p.2	Sopen05g015140.2	3.0	18.272	1	20	723	742	UUGGAGGAUUUGAAGAUUUC	GAGGUUUGCAGAUCCUCCAA	Clivagem
spe-miR8024a-3p.2	Sopen10g006860.1	2.5	18.277	1	20	144	163	UUGGAGGAUUUGAAGAUUUC	GAUAUCUUCUAAUCCUUCUAA	Tradução
spe-miR8024a-3p.2	Sopen05g015140.4	3.0	18.272	1	20	642	661	UUGGAGGAUUUGAAGAUUUC	GAGGUUUGCAGAUCCUCCAA	Clivagem
spe-miR8024a-3p.2	Sopen05g015140.3	3.0	18.272	1	20	639	658	UUGGAGGAUUUGAAGAUUUC	GAGGUUUGCAGAUCCUCCAA	Clivagem
spe-miR8024a-5p.1	Sopen06g011460.1	2.5	22.658	1	22	3506	3527	UUAAAGAAUUUGAAGACUUCAG	CUGAAGUAUUCAAAUCUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen05g013910.1	2.5	23.867	1	22	3416	3437	UUAAAGAAUUUGAAGACUUCAG	CUGAAGUAUUCAAAUCUUUAA	Clivagem

spe-miR8024a-5p.1	Sopen05g023250.1	2.5	23.507	1	22	3203	3224	UUAAAGAAUUUGAAGACUUCAG	CUGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen05g026130.1	2.5	21.503	1	22	2705	2726	UUAAAGAAUUUGAAGACUUCAG	CUGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen11g011880.1	2.5	20.749	1	22	2240	2261	UUAAAGAAUUUGAAGACUUCAG	CUGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen03g026040.1	2.5	22.285	1	22	1448	1469	UUAAAGAAUUUGAAGACUUCAG	CUGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen10g011960.1	2.5	21.587	1	22	1172	1193	UUAAAGAAUUUGAAGACUUCAG	CUGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen00g008330.1	2.5	20.636	1	22	1154	1175	UUAAAGAAUUUGAAGACUUCAG	CUGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen01g022390.1	2.5	21.191	1	22	1157	1178	UUAAAGAAUUUGAAGACUUCAG	CUGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen05g023250.2	2.5	23.507	1	22	962	983	UUAAAGAAUUUGAAGACUUCAG	CUGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen06g011480.1	2.5	21.98	1	22	890	911	UUAAAGAAUUUGAAGACUUCAG	CUGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen05g026130.2	2.5	17.895	1	22	23	44	UUAAAGAAUUUGAAGACUUCAG	CUGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen01g012780.1	2.5	21.034	1	21	1233	1253	UUAAAGAAUUUGAAGACUUCA	UGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen07g004450.1	3.0	12.356	1	21	650	670	UUAAAGAAUUUGAAGACUUCA	UGAAGUUUUUGGAUUUUUUUGA	Clivagem
spe-miR8024a-5p.1	Sopen08g018650.1	3.0	19.454	1	24	507	530	UUAAAGAAUUUGAAGACUUCAGCU	GCGAGAAGCCUUCAAUCCUUUGA	Clivagem
spe-miR8024a-5p.1	Sopen04g023980.1	2.5	20.673	1	21	219	239	UUAAAGAAUUUGAAGACUUCA	UGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen02g023450.1	3.0	21.156	1	23	123	145	UUAAAGAAUUUGAAGACUUCAGC	GCCGGAGAUUUCAAGUUUUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen12g019620.1	3.0	14.717	1	23	301	323	UUAAAGAAUUUGAAGACUUCAGC	GAUGAAGUAUUCAAAGUUUUUGA	Clivagem
spe-miR8024a-5p.1	Sopen08g007060.1	3.0	15.963	1	21	153	173	UUAAAGAAUUUGAAGACUUCA	UGAAGAAUUCGGAUUCUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen01g016700.1	3.0	17.172	1	21	216	236	UUAAAGAAUUUGAAGACUUCA	UGAAGUGUUCAAAGUUUUUGA	Clivagem
spe-miR8024a-5p.1	Sopen08g017350.1	3.0	16.6	1	20	6397	6416	UUAAAGAAUUUGAAGACUUC	GAAGUCAUUAAUACUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen09g021360.1	2.5	13.843	1	20	5467	5486	UUAAAGAAUUUGAAGACUUC	GAUGUCUUCAGUUUCUUUAA	Tradução
spe-miR8024a-5p.1	Sopen00g008680.1	2.5	16.76	1	20	1912	1931	UUAAAGAAUUUGAAGACUUC	GUAGGCUUUAAUUCUUUAA	Clivagem
spe-miR8024a-5p.1	Sopen08g005320.1	3.0	14.74	1	20	1256	1275	UUAAAGAAUUUGAAGACUUC	GAAGUCGUCAAGUUCUUGAA	Clivagem
spe-miR8024a-5p.1	Sopen03g016960.1	3.0	14.973	1	20	1586	1605	UUAAAGAAUUUGAAGACUUC	GAAGCUUUCAAAUUCUUAAA	Clivagem
spe-miR8024a-5p.1	Sopen06g005300.1	3.0	20.941	1	22	5456	5477	UUAAAGAAUUUGAAGACUUCAG	CAGAAGUAUUCAGCUUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen12g025220.1	2.5	16.216	1	24	3410	3433	UUAAAGUAUUUGAAGACUUCACU	GGUUGAAGUAUUCAAAUACUCUAA	Clivagem
spe-miR8024a-5p.2	Sopen06g011460.1	1.0	22.658	1	21	3507	3527	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen05g013910.1	1.0	23.867	1	21	3417	3437	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen05g023250.1	1.0	23.507	1	21	3204	3224	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen05g026130.1	1.0	21.503	1	21	2706	2726	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen11g011880.1	1.0	20.749	1	21	2241	2261	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen03g026040.1	1.0	22.285	1	21	1449	1469	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen01g012780.1	1.0	21.034	1	21	1233	1253	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen10g011960.1	1.0	21.587	1	21	1173	1193	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen00g008330.1	1.0	20.636	1	21	1155	1175	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen01g022390.1	1.0	21.191	1	21	1158	1178	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAAUACUUUAA	Clivagem

spe-miR8024a-5p.2	Sopen05g023250.2	1.0	23.507	1	21	963	983	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen06g011480.1	1.0	21.98	1	21	891	911	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen04g023980.1	1.0	20.673	1	21	219	239	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen05g026130.2	1.0	17.895	1	21	24	44	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen08g017350.1	1.5	16.6	1	20	6397	6416	UUAAAGUAUUUGAAGACUUC	GAAGUCAUUAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen03g016180.1	2.0	19.287	1	21	5253	5273	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen12g016700.1	2.0	21.109	1	21	6039	6059	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen04g019810.1	2.0	15.434	1	21	4275	4295	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen02g010600.1	2.0	20.832	1	21	1440	1460	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen02g010600.2	2.0	20.832	1	21	219	239	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen12g025350.1	2.5	23.871	1	21	2814	2834	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAUACAUUAA	Clivagem
spe-miR8024a-5p.2	Sopen06g014220.1	2.0	18.09	1	21	2751	2771	UUAAAGUAUUUGAAGACUUCA	UAAAGUAUUCAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen12g009970.1	2.5	20.665	1	21	1380	1400	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAUACUUUCA	Clivagem
spe-miR8024a-5p.2	Sopen06g014220.2	2.0	18.09	1	21	2031	2051	UUAAAGUAUUUGAAGACUUCA	UAAAGUAUUCAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen08g019790.1	2.0	21.233	1	21	1449	1469	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen02g001800.1	2.0	22.002	1	21	1356	1376	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCCAACUUUAA	Tradução
spe-miR8024a-5p.2	Sopen09g016130.1	2.0	23.379	1	21	1059	1079	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen10g011790.1	2.0	20.052	1	21	885	905	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen01g022530.1	2.0	18.097	1	21	909	929	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen12g021450.2	2.0	18.978	1	21	780	800	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen01g012140.1	2.0	16.162	1	21	909	929	UUAAAGUAUUUGAAGACUUCA	UGAAGUACUCAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen08g019780.1	2.0	19.788	1	21	219	239	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen01g009150.1	3.0	15.497	1	22	1289	1310	UUAAAGUAUUUGAAGACUUCAA	UUGAAGCUUCAAAGCUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen10g021260.1	3.0	18.29	1	22	767	788	UUAAAGUAUUUGAAGACUUCAA	UUGAAGCUUCAAAGCUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen01g009120.1	3.0	16.119	1	22	881	902	UUAAAGUAUUUGAAGACUUCAA	UUGAAGCUUCAAACGCUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen05g027450.1	3.0	17.452	1	22	401	422	UUAAAGUAUUUGAAGACUUCAA	UUGAAGCUUCAAAGCUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen08g018050.1	2.5	16.678	1	21	1449	1469	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACAUUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen01g022380.1	3.0	17.956	1	21	3594	3614	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUUAAUACUUUUA	Clivagem
spe-miR8024a-5p.2	Sopen11g019790.1	2.5	18.498	1	21	3495	3515	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACAUUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen10g013210.1	2.5	17.046	1	21	3051	3071	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACAUUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen01g006350.1	2.5	17.085	1	21	1263	1283	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACAUUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen06g004600.1	2.5	17.595	1	21	1173	1193	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACAUUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen04g010040.1	2.5	15.994	1	21	1215	1235	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACAUUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen05g008270.1	2.5	16.051	1	21	120	140	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUUCAAACAUUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen01g030120.1	3.0	10.347	1	22	1457	1478	UUAAAGUAUUUGAAGACUUCAA	UAGAAGUCUUUGAAUUAUUUGAA	Clivagem

spe-miR8024a-5p.2	Sopen02g004530.1	3.0	12.833	1	24	3923	3946	UUAAAGUAUUUGAAGACUUCAACU	AGAAGAGGUCUCCAAUGCUUUUAU	Tradução
spe-miR8024a-5p.2	Sopen01g045110.1	3.0	19.501	1	23	1612	1634	UUAAAGUAUUUGAAGACUUCAAC	GGUGAAGCCUAUAAAUCUUUGA	Clivagem
spe-miR8024a-5p.2	Sopen05g018420.1	2.0	14.723	1	20	1117	1136	UUAAAGUAUUUGAAGACUUC	GAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen04g014340.1	3.0	12.885	1	21	128	148	UUAAAGUAUUUGAAGACUUCA	UGGAGGCUUUUACUACUUUAA	Tradução
spe-miR8024a-5p.2	Sopen01g015800.1	2.5	20.513	1	20	5212	5231	UUAAAGUAUUUGAAGACUUC	GAAGUAUUCAAACAUUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen12g020010.1	2.5	19.903	1	20	4606	4625	UUAAAGUAUUUGAAGACUUC	GAAGUAUUCAAACAUUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen02g013570.1	3.0	15.83	1	20	1245	1264	UUAAAGUAUUUGAAGACUUC	GGAGUUUGCAAUGCUUUAG	Clivagem
spe-miR8024a-5p.2	Sopen02g023030.1	3.0	17.226	1	20	576	595	UUAAAGUAUUUGAAGACUUC	GGAGUCUUUAGAGACUUUGA	Clivagem
spe-miR8024a-5p.2	Sopen03g021620.1	2.5	16.862	1	20	1120	1139	UUAAAGUAUUUGAAGACUUC	GAAGUAUUCAAACAUUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen08g018650.1	3.0	19.454	1	20	511	530	UUAAAGUAUUUGAAGACUUC	GAAGCCUUCAAAUCCUUUGA	Clivagem
spe-miR8024a-5p.2	Sopen03g019980.1	3.0	18.377	1	21	2736	2756	UUAAAGUAUUUGAAGACUUCA	UAAAUAUUCAAUACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen04g010510.1	3.0	17.95	1	21	1449	1469	UUAAAGUAUUUGAAGACUUCA	UGAAGUAUCCAAACACUUUAA	Tradução
spe-miR8024a-5p.2	Sopen05g021850.1	3.0	19.955	1	21	888	908	UUAAAGUAUUUGAAGACUUCA	UGAUGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen04g014800.1	3.0	19.611	1	21	453	473	UUAAAGUAUUUGAAGACUUCA	UAAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8024a-5p.2	Sopen04g010770.1	3.0	20.453	1	21	408	428	UUAAAGUAUUUGAAGACUUCA	UAAAGUAUUCAAACACUUUAA	Clivagem
spe-miR8025-3p	Sopen04g002800.2	3.0	14.23	1	21	307	327	UUUAAUUGCAUGCCGAGUGUC	GACCUUCAGCAUGUAAUUAAA	Clivagem
spe-miR8025-3p	Sopen04g002800.1	3.0	14.23	1	21	307	327	UUUAAUUGCAUGCCGAGUGUC	GACCUUCAGCAUGUAAUUAAA	Clivagem
spe-miR8026-3p	Sopen04g009310.1	3.0	17.433	1	21	1877	1897	AUGUAGAGAAUAUGUGGUAAC	GUUGUCAUAUAUGCUCUGCAU	Tradução
spe-miR8026-3p	Sopen02g034660.1	3.0	20.197	1	20	3728	3747	AUGUAGAGAAUAUGUGGUAA	UUACCACAAGUUCUCUACCU	Clivagem
spe-miR8026-3p	Sopen02g010900.1	3.0	13.206	1	20	67	86	AUGUAGAGAAUAUGUGGUAA	CUACCAGCUAUUCUCUACAU	Clivagem
spe-miR8026-3p	Sopen07g012180.1	3.0	13.206	1	20	67	86	AUGUAGAGAAUAUGUGGUAA	CUACCAGCUAUUCUCUACAU	Clivagem
spe-miR8026-3p	Sopen07g022990.1	3.0	13.206	1	20	67	86	AUGUAGAGAAUAUGUGGUAA	CUACCAGCUAUUCUCUACAU	Clivagem
spe-miR8026-3p	Sopen06g032620.1	3.0	16.323	1	20	5263	5282	AUGUAGAGAAUAUGUGGUAA	CUACCAGCUAUUCUCUACAU	Clivagem
spe-miR8036-3p	Sopen10g032410.1	2.5	21.225	1	20	2180	2199	UAUGUCUUUCCGAUGCCUCC	GGAGACGUCGAAAGGCAUG	Clivagem
spe-miR8036-3p	Sopen03g022970.1	3.0	18.346	1	20	226	245	UAUGUCUUUCCGAUGCCUCC	GGGGGAACUGGAAAGACAU	Clivagem
spe-miR8036-3p	Sopen11g025290.1	3.0	18.968	1	20	385	404	UAUGUCUUUCCGAUGCCUCC	GGGGGAACUGGAAAGACAU	Clivagem
spe-miR8038a-5p	Sopen04g004650.2	1.5	18.262	1	22	1807	1828	CCUUGUGAGUAAGUUGGAUCUC	GAGAUUCAACUUUCACACAAGG	Tradução
spe-miR8038a-5p	Sopen04g004650.1	1.5	18.262	1	22	1816	1837	CCUUGUGAGUAAGUUGGAUCUC	GAGAUUCAACUUUCACACAAGG	Tradução
spe-miR8038a-5p	Sopen04g031240.1	2.5	12.462	1	22	1036	1057	CCUUGUGAGUAAGUUGGAUCUC	GAGAUCCAUUUAUUGACAAGG	Clivagem
spe-miR8038a-5p	Sopen04g004640.1	2.5	10.956	1	22	256	277	CCUUGUGAGUAAGUUGGAUCUC	GACAUUCAACUUAUCACAAGG	Tradução
spe-miR8038a-5p	Sopen09g010540.1	3.0	15.135	1	21	1226	1246	CCUUGUGAGUAAGUUGGAUCU	AGAUUCAGCUUGCUCUAUAGU	Clivagem
spe-miR8038a-5p	Sopen06g011250.1	3.0	16.735	1	21	1307	1327	CCUUGUGAGUAAGUUGGAUCU	AGAUUCAGCUUGCUCUAUAGU	Clivagem
spe-miR8038a-5p	Sopen01g006550.1	3.0	17.964	1	21	2945	2965	CCUUGUGAGUAAGUUGGAUCU	AGAUUCAGCUUGCUCUAUAGU	Clivagem
spe-miR8038a-5p	Sopen04g004660.2	3.0	18.928	1	22	1984	2005	CCUUGUGAGUAAGUUGGAUCUC	GAUUAUCAACUUUCUAUAAGG	Tradução
spe-miR8038a-5p	Sopen04g004660.3	3.0	18.928	1	22	1993	2014	CCUUGUGAGUAAGUUGGAUCUC	GAUUAUCAACUUUCUAUAAGG	Tradução

spe-miR8038a-5p	Sopen04g004660.1	3.0	18.928	1	22	2002	2023	CCUUGUGAGUAAGUUGGAUCUC	GAUUAUUAACUUUCUCAUAAGG	Tradução
spe-miR8038a-5p	Sopen05g013790.1	3.0	17.571	1	21	272	292	CCUUGUGAGUAAGUUGGAUCU	AGAGCCAAUUUACUGACAAGG	Clivagem
spe-miR8038a-5p	Sopen01g016330.1	3.0	7.423	1	20	2290	2309	CCUUGUGAGUAAGUUGGAUC	UUUCCAACAUACUCACAAGG	Clivagem
spe-miR8038a-5p	Sopen10g023930.1	3.0	22.377	1	20	211	230	CCUUGUGAGUAAGUUGGAUC	GAUUCGGUGUACUCACAAGG	Clivagem
spe-miR8039-5p	Sopen03g034600.1	3.0	22.441	1	21	253	273	UUUCCUAUCUGAACUAUCACC	GGUGAUAGUUUAGCUGGGAAU	Clivagem
spe-miR8039-5p	Sopen05g034600.1	3.0	13.44	1	21	1453	1473	UUUCCUAUCUGAACUAUCACC	GGUGAUUGGUUCAUAUAGGGAAU	Tradução
spe-miR8039-5p	Sopen02g020620.2	2.5	20.792	1	20	374	393	UUUCCUAUCUGAACUAUCAC	GUGUCAGUUCAGAUAGGGAA	Clivagem
spe-miR8039-5p	Sopen02g020620.1	2.5	20.792	1	20	374	393	UUUCCUAUCUGAACUAUCAC	GUGUCAGUUCAGAUAGGGAA	Clivagem
spe-miR8039-5p	Sopen10g024210.1	3.0	13.566	1	20	562	581	UUUCCUAUCUGAACUAUCAC	GUGAUAGUACCGAUAGCAAA	Clivagem
spe-miR8039-5p	Sopen05g021640.1	3.0	16.866	1	20	961	981	UUUCCUA-UCUGAACUAUCAC	GUGAUAGUUCAGAAUGGGGAA	Clivagem
spe-miR8039-5p	Sopen06g024150.1	3.0	13.767	1	20	860	879	UUUCCUAUCUGAACUAUCAC	GUGUUUGUUCAGAUAGGGAAU	Clivagem
spe-miR8039-5p	Sopen01g033720.1	3.0	20.536	1	20	1606	1625	UUUCCUAUCUGAACUAUCAC	GUGAAAGCUCAGGUGGGAAA	Clivagem
spe-miR8039-5p	Sopen08g003900.1	3.0	13.253	1	20	1372	1391	UUUCCUAUCUGAACUAUCAC	GUGAAAGCUCAAAUAGGGAA	Tradução
spe-miR8042-3p	Sopen02g023740.1	2.5	17.025	1	21	339	359	AUUAGACUGAAAUGCUGAUCU	AGAUGAGCAUUUCAGCCUAAU	Clivagem
spe-miR8042-3p	Sopen02g025810.2	3.0	11.778	1	20	718	737	AUUAGACUGAAAUGCUGAUC	GAUCAUCAUUUUAGUCUCAU	Clivagem
spe-miR8042-3p	Sopen12g008060.1	3.0	10.924	1	21	160	180	AUUAGACUGAAAUGCUGAUCU	GGUUCAGGAUUUCAGUCUAAG	Clivagem
spe-miR8042-3p	Sopen04g031540.1	3.0	21.776	1	21	2833	2853	AUUAGACUGAAAUGCUGAUCU	GGAUUAGCAUUUCAGUCUAAC	Clivagem
spe-miR8042-3p	Sopen02g016790.1	3.0	11.919	1	20	233	252	AUUAGACUGAAAUGCUGAUC	CAUCAUCAUCUCAGUCUAAU	Tradução
spe-miR8045-3p	Sopen01g002710.2	1.0	10.974	1	21	555	575	AUUGAUAGUUGAGGUGUGUUU	AAACACACUUCAACUAUCAGU	Clivagem
spe-miR8045-3p	Sopen06g004790.1	3.0	17.505	1	21	1414	1434	AUUGAUAGUUGAGGUGUGUUU	GGACAUGCCUCAACUGUUGAU	Clivagem
spe-miR8045-3p	Sopen06g004790.2	3.0	17.505	1	21	1414	1434	AUUGAUAGUUGAGGUGUGUUU	GGACAUGCCUCAACUGUUGAU	Clivagem
spe-miR8045-3p	Sopen03g041730.1	3.0	13.749	1	20	5	24	AUUGAUAGUUGAGGUGUGUU	GGCACACCUCAACUACUAAU	Clivagem
spe-miR8045-3p	Sopen03g038800.1	3.0	20.018	1	21	3118	3138	AUUGAUAGUUGAGGUGUGUUU	GAACUUACCUCGGCUGUCAAU	Clivagem
spe-miR8045-3p	Sopen03g033970.1	3.0	10.611	1	20	855	874	AUUGAUAGUUGAGGUGUGUU	CACAAACUUCAACUAUCGAU	Clivagem
spe-miR8047-5p	Sopen02g035770.2	2.0	17.635	1	21	893	913	CCAUUUUUUCGAAAUUAGACC	GGCCUAAUUUUUGAGAAAUGG	Clivagem
spe-miR8047-5p	Sopen02g035770.1	2.0	17.635	1	21	893	913	CCAUUUUUUCGAAAUUAGACC	GGCCUAAUUUUUGAGAAAUGG	Clivagem
spe-miR8047-5p	Sopen06g023650.2	2.5	11.263	1	20	1500	1519	CCAUUUUUUCGAAAUUAGAC	GUCUAAUUUUUGAAAAGUUGG	Clivagem
spe-miR8047-5p	Sopen06g023650.1	2.5	11.263	1	20	1500	1519	CCAUUUUUUCGAAAUUAGAC	GUCUAAUUUUUGAAAAGUUGG	Clivagem
spe-miR8047-5p	Sopen05g021200.1	2.5	17.008	1	20	111	130	CCAUUUUUUCGAAAUUAGAC	GUCUAAUUUUUGAGAUAAUGG	Clivagem
spe-miR8047-5p	Sopen12g001830.1	2.5	16.137	1	20	44	63	CCAUUUUUUCGAAAUUAGAC	GUGUAGUUUCUAAAAAUGG	Tradução
spe-miR8047-5p	Sopen12g001830.2	2.5	16.137	1	20	44	63	CCAUUUUUUCGAAAUUAGAC	GUGUAGUUUCUAAAAAUGG	Tradução
spe-miR8047-5p	Sopen12g009640.1	3.0	24.237	1	20	51	70	CCAUUUUUUCGAAAUUAGAC	GUCUAAUGUGGAAAAGGUGG	Tradução
spe-miR8047-5p	Sopen03g027750.1	2.5	14.661	1	20	1007	1025	CCAUUUUUUCGAAAUUAGAC	GUCUAAUUUC-AAAAAGUGG	Tradução
spe-miR8047-5p	Sopen03g027750.2	2.5	14.661	1	20	368	386	CCAUUUUUUCGAAAUUAGAC	GUCUAAUUUC-AAAAAGUGG	Tradução
spe-miR8047-5p	Sopen08g011120.1	3.0	19.031	1	20	51	70	CCAUUUUUUCGAAAUUAGAC	GUCUAAUGACGAAAAGGUGG	Clivagem

spe-miR8051-5p	Sopen10g022990.1	2.0	20.383	1	20	296	315	UAGUAUGGUAGAAAGAUUCA	UGGAUCUUUCUACCGUGUUA	Clivagem
spe-miR8051-5p	Sopen03g028060.1	2.5	23.259	1	20	3209	3228	UAGUAUGGUAGAAAGAUUCA	UGGAUGUUUCUACCAUUAUUG	Clivagem
spe-miR8051-5p	Sopen12g006480.1	3.0	19.037	1	20	1056	1075	UAGUAUGGUAGAAAGAUUCA	UGAAGCUUUUCUACAAUGCUA	Clivagem
spe-miR8051-5p	Sopen09g005560.2	3.0	15.377	1	20	1100	1119	UAGUAUGGUAGAAAGAUUCA	UGAAUCUUUUUAGCCAUGCUG	Tradução
spe-miR8051-5p	Sopen09g005560.1	3.0	15.377	1	20	1127	1146	UAGUAUGGUAGAAAGAUUCA	UGAAUCUUUUUAGCCAUGCUG	Tradução
spe-miR8051-5p	Sopen01g006610.1	3.0	15.03	1	20	333	352	UAGUAUGGUAGAAAGAUUCA	UGAAUCUUACAACCAUGUUA	Tradução
spe-miR8051-5p	Sopen03g003730.1	3.0	17.122	1	20	2264	2283	UAGUAUGGUAGAAAGAUUCA	UGGAACUUUCUCCCAUGCUA	Tradução
spe-miR8175-1-5p	Sopen03g018060.1	3.0	23.781	1	20	498	517	GAUCCCCGGCAACGGCGCCA	UGGCGCCGUUGCCGGGAACC	Clivagem
spe-miR8175-1-5p	Sopen08g015010.1	3.0	21.606	1	20	39	58	GAUCCCCGGCAACGGCGCCA	UGGUGUCGUGCUGGGGAUU	Clivagem
spe-miR8175-2-3p	Sopen03g018060.1	3.0	23.781	1	20	498	517	GAUCCCCGGCAACGGCGCCA	UGGCGCCGUUGCCGGGAACC	Clivagem
spe-miR8175-2-3p	Sopen08g015010.1	3.0	21.606	1	20	39	58	GAUCCCCGGCAACGGCGCCA	UGGUGUCGUGCUGGGGAUU	Clivagem
spe-miR827-3p	Sopen03g016360.1	2.5	15.447	1	21	906	926	UUAGAUGAACAUCAACAAACA	UGUUUGUUGGUGUCCAUUUAG	Clivagem
spe-miR827-3p	Sopen01g011390.1	3.0	19.589	1	20	1803	1822	UUAGAUGAACAUCAACAAAC	CUUUGUUGUUGUUUAUCUAG	Clivagem
spe-miR827-3p	Sopen09g004850.1	3.0	19.021	1	21	144	164	UUAGAUGAACAUCAACAAACA	UGUUUGUUCUUCUUAUCUAA	Tradução
spe-miR827-3p	Sopen11g028800.1	3.0	16.905	1	20	15	34	UUAGAUGAACAUCAACAAAC	GUAUGUUGAUGAUCAUUUGA	Tradução
spe-miR827-3p	Sopen08g025130.1	3.0	13.283	1	20	513	532	UUAGAUGAACAUCAACAAAC	GCUUGUUGAGGUUCAUCUGG	Tradução
spe-miR827-5p	Sopen07g017540.2	3.0	16.406	1	21	1652	1672	UUUGUUGAUGGUCAUCUAUUC	GAGUAGAUGAUCAUCAAAGAA	Clivagem
spe-miR827-5p	Sopen07g017540.1	3.0	16.406	1	21	1211	1231	UUUGUUGAUGGUCAUCUAUUC	GAGUAGAUGAUCAUCAAAGAA	Clivagem
spe-miR827-5p	Sopen05g003600.1	3.0	13.678	1	21	914	934	UUUGUUGAUGGUCAUCUAUUC	GAAUAGUUGGCCAUCAAGAAA	Clivagem
spe-miR827-5p	Sopen09g033010.1	2.5	12.54	1	20	1778	1797	UUUGUUGAUGGUCAUCUAUU	AACAGAUGACCGUCAGCAGA	Clivagem
spe-miR827-5p	Sopen05g030030.1	2.5	11.381	1	20	1609	1628	UUUGUUGAUGGUCAUCUAUU	AACAGAUGGUCAUCAACGAA	Clivagem
spe-miR827-5p	Sopen05g014970.1	3.0	19.694	1	21	11	31	UUUGUUGAUGGUCAUCUAUUC	GAAUACAUGGCCAAUCAGCAAA	Tradução
spe-miR827-5p	Sopen05g014970.2	3.0	19.694	1	21	11	31	UUUGUUGAUGGUCAUCUAUUC	GAAUACAUGGCCAAUCAGCAAA	Tradução
spe-miR827-5p	Sopen09g006930.1	3.0	18.691	1	20	284	303	UUUGUUGAUGGUCAUCUAUU	AAGGGAUGGCUGUCAACAAA	Clivagem
spe-miR827-5p	Sopen09g006930.2	3.0	18.691	1	20	284	303	UUUGUUGAUGGUCAUCUAUU	AAGGGAUGGCUGUCAACAAA	Clivagem
spe-miR827-5p	Sopen05g017840.1	3.0	13.11	1	20	315	334	UUUGUUGAUGGUCAUCUAUU	AGGACAUGGCCAUCAACAAA	Clivagem
spe-miR827-5p	Sopen12g023800.1	3.0	10.395	1	20	930	949	UUUGUUGAUGGUCAUCUAUU	AAUAGAAGAUGGUCAACAAA	Tradução
spe-miR827-5p	Sopen10g033640.1	3.0	12.602	1	20	100	119	UUUGUUGAUGGUCAUCUAUU	ACUAGAUGUCCAUCAGCAGA	Clivagem
spe-miR827-5p	Sopen01g034140.1	3.0	20.388	1	20	677	696	UUUGUUGAUGGUCAUCUAUU	AAUGGCUGAGCAUCAACAAG	Tradução
spe-miR827-5p	Sopen04g030840.1	3.0	9.443	1	20	753	772	UUUGUUGAUGGUCAUCUAUU	AAUAAAUAAGCAUCAACAAA	Tradução
spe-miR827-5p	Sopen04g020660.1	3.0	9.432	1	20	409	427	UUUGUUGAUGGUCAUCUAUU	AAUA-AUGAUCAUCAACAAG	Clivagem
spe-miR828a-3p	Sopen11g016020.1	3.0	12.536	1	20	441	460	AGAUACUCAUUUGGGUAAGA	UCUUAUCUAUUGGGUAUCA	Tradução
spe-miR828a-3p	Sopen01g006360.1	3.0	16.71	1	20	827	846	AGAUACUCAUUUGGGUAAGA	UCUUGCCAAAUGUGUAUCU	Clivagem
spe-miR828a-3p	Sopen04g021440.1	3.0	16.743	1	20	2355	2374	AGAUACUCAUUUGGGUAAGA	UCCGGUCCAAAUGAGUAUCU	Clivagem
spe-miR828a-5p	Sopen10g001530.1	3.0	17.18	1	22	328	349	UCUUGCUCAAAUGAGUAUCCA	UGGAAUACUCAUUUGAAGAAGA	Clivagem

spe-miR828a-5p	Sopen08g031120.1	2.5	11.877	1	22	322	343	UCUUGCUCAAAUGAGUAUUGCA	UGGAAUACGCAUUUGAUCAAGA	Clivagem
spe-miR828a-5p	Sopen11g025350.1	3.0	18.75	1	22	164	185	UCUUGCUCAAAUGAGUAUUGCA	UGGAAUGUUUUAUUUGAUCAAGA	Clivagem
spe-miR828a-5p	Sopen12g005270.1	2.5	15.8	1	21	411	431	UCUUGCUCAAAUGAGUAUUGCC	GGAAGGUUUUAUUUGAGCAAGA	Clivagem
spe-miR828a-5p	Sopen11g015280.1	2.5	18.684	1	21	2822	2842	UCUUGCUCAAAUGAGUAUUGCC	GGGAUGUUGAUUUUGAGCAAGA	Clivagem
spe-miR828a-5p	Sopen06g011830.1	3.0	17.59	1	21	2067	2087	UCUUGCUCAAAUGAGUAUUGCC	GAAAGACUUGUUUGAGCAAGA	Clivagem
spe-miR828a-5p	Sopen02g037610.1	3.0	16.471	1	20	972	991	UCUUGCUCAAAUGAGUAUUC	GAAUGGUCAUUUGGGCAAGU	Clivagem
spe-miR828a-5p	Sopen03g011260.1	3.0	14.081	1	20	807	826	UCUUGCUCAAAUGAGUAUUC	GAAUACUCACUUGAGUAACA	Tradução
spe-miR9469-3p	Sopen02g023090.1	3.0	18.551	1	20	1902	1921	AUUCGGUCUUCUUAUAUGGA	GCCAUACAAGAAGAUUGAAU	Clivagem
spe-miR9469-3p	Sopen09g027930.1	3.0	14.856	1	20	444	463	AUUCGGUCUUCUUAUAUGGA	UCCAGAUGAGAAGAUUGAGU	Clivagem
spe-miR9469-3p	Sopen04g013580.1	3.0	22.499	1	20	1254	1273	AUUCGGUCUUCUUAUAUGGA	UCGAUAUGAGAAGACCGCAU	Clivagem
spe-miR9469-3p	Sopen03g030520.1	3.0	16.174	1	20	231	250	AUUCGGUCUUCUUAUAUGGA	UCCAUUGAAGGAGACUGAAU	Clivagem
spe-miR9469-3p	Sopen04g005080.2	3.0	17.381	1	20	165	184	AUUCGGUCUUCUUAUAUGGA	UUCAAUUAAGAAGACUGAAU	Clivagem
spe-miR9469-3p	Sopen04g005080.1	3.0	17.381	1	20	165	184	AUUCGGUCUUCUUAUAUGGA	UUCAAUUAAGAAGACUGAAU	Clivagem
spe-miR9469-5p	Sopen07g027790.1	2.5	18.241	1	20	201	220	CCAUAUAAGGAGACCAAAUU	GAUUUGGUUUUCUAUAUUGG	Clivagem
spe-miR9471b-3p	Sopen04g024360.1	1.0	19.063	1	21	18	38	UUGGCUGAGUGAGCAUCACUG	UAGUGAUGCUCACUCAGCCAC	Clivagem
spe-miR9471b-3p	Sopen09g024730.1	3.0	22.158	1	21	765	785	UUGGCUGAGUGAGCAUCACUG	CAGUGCUGUUCGCUCAGCCAU	Clivagem
spe-miR9471b-3p	Sopen08g031080.1	3.0	20.921	1	21	936	956	UUGGCUGAGUGAGCAUCACUG	UAUUGAUGCUCUACUCGGCUGA	Clivagem
spe-miR9471b-3p	Sopen10g026410.1	3.0	24.463	1	20	2028	2047	UUGGCUGAGUGAGCAUCACU	AGCGAUGCUUGUUCAGCCGA	Clivagem
spe-miR9473-1-5p	Sopen05g008970.1	3.0	12.633	1	21	479	499	UGGCUGUAAAUCUGAACUCGU	AAGAGUUUAGAUUGACAGUCA	Clivagem
spe-miR9473-2-3p	Sopen09g033590.1	3.0	20.381	1	20	36	55	AAACGAGUUCAGAUUUACAG	UUGUGAAUCUGAACUUUUUU	Clivagem
spe-miR9473-2-3p	Sopen08g022910.1	3.0	13.81	1	21	868	888	AAACGAGUUCAGAUUUACAGC	GCAGUAAUUCUGGACUUGUUU	Clivagem
spe-miR9476-1-3p	Sopen02g018520.1	2.5	17.51	1	20	74	93	AAAAAAUUGCAGGACUAGAC	GUCUAGUUCUGCGUUUUGUU	Clivagem
spe-miR9476-1-3p	Sopen06g024200.1	3.0	20.25	1	20	1064	1083	AAAAAAUUGCAGGACUAGAC	GUCUGGUUCUGAAUUUUUUG	Tradução
spe-miR9476-1-5p	Sopen06g002350.1	3.0	18.839	1	20	1072	1091	UCUAGUCCUGCAUCUCUUUUU	AAAAGGGAUGCAGGACUACU	Clivagem
spe-miR9476-1-5p	Sopen01g045390.1	3.0	12.753	1	21	652	672	UCUAGUCCUGCAUCUCUUUUU	AAAAGAGAUUUAGGACUAAA	Tradução
spe-miR9476-1-5p	Sopen09g033330.1	3.0	17.247	1	21	1091	1111	UCUAGUCCUGCAUCUCUUUUU	AGAAAGAGAUUCUGGACUGGA	Tradução
spe-miR9476-1-5p	Sopen08g025150.1	3.0	12.925	1	21	691	711	UCUAGUCCUGCAUCUCUUUUU	AAGAAGAAACGCAGGAUUAGA	Clivagem
spe-miR9476-1-5p	Sopen01g041170.1	3.0	18.772	1	20	256	275	UCUAGUCCUGCAUCUCUUUUU	GAAAGAGAUUGCACGGCUAGC	Clivagem
spe-miR9476-1-5p	Sopen07g007170.1	3.0	16.453	1	20	60	79	UCUAGUCCUGCAUCUCUUUUU	AAGAGAGAUUCAGGACAAGA	Tradução
spe-miR9476-1-5p	Sopen12g023890.1	3.0	22.233	1	20	2352	2371	UCUAGUCCUGCAUCUCUUUUU	AAAGGAGUUCAGGACUGGA	Tradução
spe-miR9476-1-5p	Sopen04g031800.1	3.0	12.008	1	20	211	230	UCUAGUCCUGCAUCUCUUUUU	AGAGGAGUUGGAGGACUAGA	Tradução
spe-miR9476-1-5p	Sopen10g034820.1	3.0	9.905	1	21	1173	1193	UCUAGUCCUGCAUCUCUUUUU	GAAAACAGAUUGGACUAGA	Tradução
spe-miR9476-1-5p	Sopen07g019440.1	3.0	16.795	1	20	245	264	UCUAGUCCUGCAUCUCUUUUU	ACAAGAGUUACAGGACUAGA	Tradução
spe-miR9476-2-3p	Sopen08g006390.1	3.0	18.63	1	20	2241	2260	AAAGAGAUGCAGGACUAGAC	CACUAAUCCUGCAUCUCUUU	Clivagem
spe-miR9476-2-3p	Sopen12g034640.1	3.0	17.82	1	21	881	901	AAAGAGAUGCAGGACUAGACC	GGCCUAUCCUGAAUCUCUUU	Tradução

spe-miR9476-2-3p	Sopen06g028710.1	3.0	22.839	1	20	2421	2440	AAAGAGAUGCAGGACUAGAC	UUCUAGCCCUUCAUCUCUUU	Tradução
spe-miR9476-2-3p	Sopen11g030240.1	3.0	15.498	1	19	1786	1805	AAAGAGAU-GCAGGACUAGA	UCUAGUCCUCCAUCUCUUU	Tradução
spe-miR9476-2-5p	Sopen12g009280.1	2.0	23.461	1	21	1902	1922	UCUAGUCCUGCAUUUUUUUUU	AAAAAGAAAGUGUAGGACUGGA	Clivagem
spe-miR9476-2-5p	Sopen12g032490.1	2.0	23.919	1	21	1941	1961	UCUAGUCCUGCAUUUUUUUUU	AAAAGAAACUGUAGGACUAGA	Clivagem
spe-miR9476-2-5p	Sopen08g016040.1	2.0	21.813	1	21	975	995	UCUAGUCCUGCAUUUUUUUUU	AAAAGAAACUGUAGGACUAGA	Clivagem
spe-miR9476-2-5p	Sopen07g026950.1	2.0	19.002	1	21	587	607	UCUAGUCCUGCAUUUUUUUUU	AGAAAAAAUUGGAGGACUGGA	Tradução
spe-miR9476-2-5p	Sopen05g002910.1	3.0	11.765	1	21	1533	1553	UCUAGUCCUGCAUUUUUUUUU	AAAGAAAGAUUGCAGGAUCAGA	Clivagem
spe-miR9476-2-5p	Sopen06g009570.1	2.5	16.264	1	21	442	462	UCUAGUCCUGCAUUUUUUUUU	AAGAAAAAAGUAGGAUUAGA	Clivagem
spe-miR9476-2-5p	Sopen08g025150.1	2.5	12.925	1	21	691	711	UCUAGUCCUGCAUUUUUUUUU	AAGAAGAAACGCAGGAUUAGA	Clivagem
spe-miR9476-2-5p	Sopen06g019610.1	3.0	20.764	1	21	64	84	UCUAGUCCUGCAUUUUUUUUU	AGGAGAAGAUUGCAGGAUUAGG	Clivagem
spe-miR9476-2-5p	Sopen05g019280.1	2.0	13.453	1	21	392	412	UCUAGUCCUGCAUUUUUUUUU	GAAAAAAAUUGCAUGAUUGGA	Clivagem
spe-miR9476-2-5p	Sopen03g038580.1	3.0	14.223	1	21	1717	1737	UCUAGUCCUGCAUUUUUUUUU	AAAAAAGACGCAGGACUGGU	Clivagem
spe-miR9476-2-5p	Sopen08g005570.1	2.5	23.619	1	21	1932	1952	UCUAGUCCUGCAUUUUUUUUU	GAAAGAAACUGUAGGACUGGA	Clivagem
spe-miR9476-2-5p	Sopen04g027640.1	3.0	6.864	1	21	662	682	UCUAGUCCUGCAUUUUUUUUU	AGGAAAGAAUGGAGGACUGGA	Tradução
spe-miR9476-2-5p	Sopen09g015910.1	3.0	22.794	1	21	384	404	UCUAGUCCUGCAUUUUUUUUU	GGAAAAAGAUUGCAGCACUAGG	Clivagem
spe-miR9476-2-5p	Sopen11g015320.1	3.0	17.871	1	21	9	29	UCUAGUCCUGCAUUUUUUUUU	GAGGAGAAUUGCAGGAGUAGA	Clivagem
spe-miR9476-2-5p	Sopen07g008460.1	3.0	15.543	1	20	2170	2189	UCUAGUCCUGCAUUUUUUUUU	AAAAAGAAUUGCAGAACUGGG	Clivagem
spe-miR9476-2-5p	Sopen10g035000.1	3.0	6.385	1	20	819	838	UCUAGUCCUGCAUUUUUUUUU	AAAGGAAUUGCAGGAUGAGA	Clivagem
spe-miR9476-2-5p	Sopen05g031950.1	2.5	13.677	1	20	333	352	UCUAGUCCUGCAUUUUUUUUU	AAAGAAAUGCAUGAUUGGA	Clivagem
spe-miR9476-2-5p	Sopen04g030780.1	3.0	19.303	1	21	648	668	UCUAGUCCUGCAUUUUUUUUU	AAAAAAAUUGCUGGGCUGGA	Tradução
spe-miR9476-2-5p	Sopen07g002760.1	3.0	15.464	1	21	242	262	UCUAGUCCUGCAUUUUUUUUU	GAGAAAAGAUGAAGGAUUGGA	Tradução
spe-miR9476-2-5p	Sopen00g005970.1	3.0	19.303	1	21	462	482	UCUAGUCCUGCAUUUUUUUUU	AAAAAAAUUGCUGGGCUGGA	Tradução
spe-miR9476-2-5p	Sopen00g005810.1	3.0	17.696	1	21	213	233	UCUAGUCCUGCAUUUUUUUUU	AAAAAAAUUGCUGGGCUGGA	Tradução
spe-miR9476-2-5p	Sopen06g023920.1	3.0	14.785	1	21	327	347	UCUAGUCCUGCAUUUUUUUUU	AAAAGAAUUGCAAGAUUAGA	Clivagem
spe-miR9476-2-5p	Sopen10g028340.1	3.0	10.877	1	21	307	327	UCUAGUCCUGCAUUUUUUUUU	AAAAAGAAUCUAAGACUAGA	Tradução
spe-miR9476-2-5p	Sopen09g014590.1	3.0	15.725	1	21	4003	4023	UCUAGUCCUGCAUUUUUUUUU	GAAGAGAAAGGGAGGACUAGA	Tradução
spe-miR9476-2-5p	Sopen00g006180.1	3.0	19.599	1	20	193	212	UCUAGUCCUGCAUUUUUUUUU	GAACAACAUGCAGGACUGGA	Clivagem
spe-miR9477-3p	Sopen09g027230.1	3.0	17.034	1	24	48	71	UUGGGAAAGGGAACAACUGAUAGU	AUUUUCAGUUGUUCACGUUCCGA	Tradução
spe-miR9477-3p	Sopen07g014230.1	2.5	18.992	1	23	1585	1607	UUGGGAAAGGGAACAACUGAUAG	CUUUCAAUUGGUCCUUUCCCAA	Clivagem
spe-miR9477-3p	Sopen04g027660.1	2.5	13.826	1	23	454	476	UUGGGAAAGGGAACAACUGAUAG	CAUUUAGUUGGUCCCCUCCCAA	Clivagem
spe-miR9477-3p	Sopen04g014070.1	2.5	17.253	1	20	2603	2622	UUGGGAAAGGGAACAACUGA	UCAGUUGGUCUCUUUUUCAA	Clivagem
spe-miR9477-3p	Sopen04g014070.1	2.5	17.054	1	20	5120	5139	UUGGGAAAGGGAACAACUGA	UCAGUUGGUCUCUUUUUCAA	Clivagem
spe-miR9477-3p	Sopen12g016570.1	2.5	21.177	1	20	3161	3180	UUGGGAAAGGGAACAACUGA	UCAGUUGGUCUCUUUUUCAA	Clivagem
spe-miR9477-3p	Sopen11g010840.1	2.5	19.307	1	20	311	330	UUGGGAAAGGGAACAACUGA	UCAGUUGGUCUCUUUUUCAA	Clivagem
spe-miR9477-3p	Sopen08g003550.1	3.0	11.029	1	20	2200	2219	UUGGGAAAGGGAACAACUGA	CCAAUUGUUUCUUUCCCAA	Clivagem

spe-miR9477-3p	Sopen08g003550.2	3.0	10.754	1	20	2200	2219	UUGGGAAAGGGAACAACUGA	CCAAUUGUUUCUUUCCCAA	Clivagem
spe-miR9477-3p	Sopen03g032070.1	3.0	10.663	1	22	47	68	UUGGGAAAGGGAACAACUGAUA	UUUCGGUCGUUUCUUUUCUCAA	Clivagem
spe-miR9477-3p	Sopen10g029300.1	3.0	19.182	1	21	260	280	UUGGGAAAGGGAACAACUGAU	GUCAGGUGUUUGCUUUCUCAA	Tradução
spe-miR9477-3p	Sopen03g018500.1	3.0	20.914	1	23	4566	4588	UUGGGAAAGGGAACAACUGAUAG	UUCUCUCUUGGUCCCUUCCCAA	Clivagem
spe-miR9477-3p	Sopen01g029630.1	3.0	14.386	1	20	478	497	UUGGGAAAGGGAACAACUGA	UCAACUGUUUCCUUUCCUAA	Clivagem
spe-miR9477-3p	Sopen01g029630.2	3.0	14.386	1	20	478	497	UUGGGAAAGGGAACAACUGA	UCAACUGUUUCCUUUCCUAA	Clivagem
spe-miR9477-5p	Sopen03g022800.2	2.5	19.112	1	23	858	880	UAUCAGUUGUUCUCUUUUCUAC	GAAGGAAAGGAGAGUGACUGAUG	Clivagem
spe-miR9477-5p	Sopen03g022800.1	2.5	19.112	1	23	855	877	UAUCAGUUGUUCUCUUUUCUAC	GAAGGAAAGGAGAGUGACUGAUG	Clivagem
spe-miR9477-5p	Sopen05g002600.1	3.0	24.641	1	24	824	847	UAUCAGUUGUUCUCUUUUCUACC	GGUUGGAGAAGAAAUGGCUGAUA	Clivagem
spe-miR9477-5p	Sopen12g002660.1	2.5	20.147	1	22	964	985	UAUCAGUUGUUCUCUUUUCUUA	UGGGAAAGGAGAAAAACUGGUG	Tradução
spe-miR9477-5p	Sopen11g005080.1	2.5	19.507	1	23	971	993	UAUCAGUUGUUCUCUUUUCUAC	GAAGGAAAGAGAGAAACUGGUG	Tradução
spe-miR9477-5p	Sopen12g033960.1	2.0	17.14	1	21	1400	1420	UAUCAGUUGUUCUCUUUUCU	GGGAGAAGGGUACAACUGAUA	Tradução
spe-miR9477-5p	Sopen12g032070.1	3.0	15.428	1	22	1054	1075	UAUCAGUUGUUCUCUUUUCUUA	UGGAAAGAGAGAAUACUGAUC	Clivagem
spe-miR9477-5p	Sopen06g023990.1	3.0	17.069	1	22	472	493	UAUCAGUUGUUCUCUUUUCUUA	UGUGAAAAGGGAAUGGCUGAUA	Clivagem
spe-miR9477-5p	Sopen12g005240.1	2.5	19.861	1	20	211	230	UAUCAGUUGUUCUCUUUUC	GGAAAAGAGAAUACAGAUG	Clivagem
spe-miR9477-5p	Sopen00g011810.1	2.5	11.448	1	23	590	612	UAUCAGUUGUUCUCUUUUCUAC	GUUGGAAAAGAGCACUACUGAUG	Tradução
spe-miR9477-5p	Sopen09g015460.1	3.0	17.467	1	21	50	70	UAUCAGUUGUUCUCUUUUCU	AGGAAGAGAGUACAACUGAAA	Tradução
spe-miR9477-5p	Sopen10g013560.1	3.0	18.781	1	21	596	616	UAUCAGUUGUUCUCUUUUCU	GGGGAAAGAAAACAAUUGAUC	Clivagem
spe-miR9477-5p	Sopen02g013560.1	3.0	16.998	1	20	752	771	UAUCAGUUGUUCUCUUUUC	GGAAAAGAGGAUACCUGAUG	Clivagem
spe-miR9477-5p	Sopen02g026160.1	3.0	16.633	1	20	852	871	UAUCAGUUGUUCUCUUUUC	GGAGAAGAGGGCAGUUGGUA	Clivagem
spe-miR9477-5p	Sopen02g034050.1	3.0	15.763	1	21	530	550	UAUCAGUUGUUCUCUUUUCU	AGGAAGAAAAACAGCUGAUA	Clivagem
spe-miR9477-5p	Sopen04g030340.1	3.0	17.672	1	21	5711	5731	UAUCAGUUGUUCUCUUUUCU	AGAAAGAGAGAAAAACUGAUG	Tradução
spe-miR9477-5p	Sopen02g023090.1	3.0	18.249	1	21	2467	2487	UAUCAGUUGUUCUCUUUUCU	AAGAGAACAGAACACUGAUG	Clivagem
spe-miR9477-5p	Sopen04g004900.1	3.0	24.635	1	21	1394	1414	UAUCAGUUGUUCUCUUUUCU	AGGCAAAGAAAGCAGCUGAUA	Clivagem
spe-miR9477-5p	Sopen11g024210.1	3.0	19.835	1	20	2694	2713	UAUCAGUUGUUCUCUUUUC	UGGCAAGAGGACAACUGAUA	Clivagem
spe-miR9477-5p	Sopen11g001550.1	3.0	17.695	1	20	772	791	UAUCAGUUGUUCUCUUUUC	GGAGAAGAAAGCAAUUGGUA	Clivagem
spe-miR9477-5p	Sopen11g004410.1	2.5	17.774	1	20	116	135	UAUCAGUUGUUCUCUUUUC	GGAAAGGAGAUAAACUGAUA	Tradução
spe-miR9477-5p	Sopen12g003350.1	3.0	19.59	1	21	1370	1390	UAUCAGUUGUUCUCUUUUCU	GGGCACAGAGAACAGCUGAUG	Clivagem