UNIVERSIDADE FEDERAL DE UBERLÂNDIA
INSTITUTO DE BIOTECNOLOGIA
PROGRAMA DE PÓS-GRADUAÇÃO EM BIOTECNOLOGIA

TAMIRES CAIXETA ALVES

ANÁLISE EVOLUTIVA DE miRNAs E PROTEÍNAS ENVOLVIDAS EM SUA VIA DE PROCESSAMENTO EM CNIDÁRIOS

PATOS DE MINAS - MG
FEVEREIRO DE 2019

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Dissertação de Mestrado apresentada ao Programa de Pós-graduação em Biotecnologia como requisito parcial para a obtenção do título de Mestre em Biotecnologia.

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Dados Internacionais de Catalogação na Publicação (CIP)
Sistema de Bibliotecas da UFU, MG, Brasil.

A474a
2019

Alves, Tamires Caixeta, 1994-
Análise evolutiva de miRNAs e proteínas envolvidas em sua via de processamento em cnidários [recurso eletrônico] / Tamires Caixeta Alves. - 2019.

Orientador: Laurence Rodrigues do Amaral.
Coorientador: Matheus de Souza Gomes.
Dissertação (mestrado) - Universidade Federal de Uberlândia, Programa de Pós-Graduação em Biotecnologia.
Modo de acesso: Internet.
Disponível em: http://dx.doi.org/10.14393/ufu.di.2019.344
Inclui bibliografia.
Inclui ilustrações.

1. Biotecnologia. 2. Bioinformática. 3. MicroRNAs. 4. Cnidários. I. Amaral, Laurence Rodrigues do, 1978- (Orient.). II. Gomes, Matheus de Souza, 1981-, (Coorient.). III. Universidade Federal de Uberlândia. Programa de Pós-Graduação em Biotecnologia. IV. Título.

CDU: 60

Maria Salete de Freitas Pinheiro - CRB6/1262

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Aprovado em 26/02/2019

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2019

Dedico esta dissertação ao meu avô Jayme (in memorian), que me presenteou com meu primeiro computador e sempre acreditou na minha carreira científica.

AGRADECIMENTOS

Aos meus orientadores Dr. Laurence e Dr. Matheus pelo suporte científico e ensinamentos, os quais engrandeceram muito meu conhecimento e vivência acadêmica. Obrigada por acreditarem e confiarem no meu trabalho.

À toda minha família que são meu ponto de apoio nas ocasiões difíceis e se alegram sempre com as minhas conquistas.

Aos meus amigos pela compreensão da minha ausência em momentos críticos, suporte e saideiras que aliviaram bastante a tensão em momentos difíceis.

Aos companheiros de treino da Vassalos Crossfit e da AAAEB. A atividade física foi muito importante nesse processo, garantiu que a sanidade mental se mantivesse intacta.

Aos colegas de pesquisa do LBAM. A experiência como grupo é sempre gratificante e engrandecedora. Juntos, ainda publicaremos muito.

Colegas e demais professores do PPGBIOTEC - IBTEC. Fomos a primeira turma desse mestrado e, com certeza, aprendemos muito com as experiências que passamos. A UFU Patos ainda vai crescer muito, tenho certeza. Professores e alunos muito dedicados ao que fazem e muito amor à camisa.

Aos órgãos de fomento CNPq, CAPES, PROPP-UFU e, especialmente, à FAPEMIG pelo suporte financeiro.

RESUMO

Cnidária, filo do reino Animalia, possui grande importância ecológica e econômica, devido às características de alta capacidade de adaptação a ambientes adversos. Mecanismos que intercedem as mudanças na expressão gênica em resposta ao estresse permanecem desconhecidos. O melhor entendimento dos mecanismos reguladores da expressão pode possibilitar superar em parte os atuais desafios ambientais. Os miRNAs têm sido considerados importantes no controle da expressão de mRNAs. Os miRNAs em plantas e animais são bem estudados, no entanto, há uma lacuna evolutiva sobre seu surgimento nos dois reinos. A hipótese mais aceita é a evolução convergente, onde se acredita que os miRNAs evoluíram independentemente, sem um ancestral comum. Desta forma, este trabalho teve como objetivo a busca por prováveis proteínas envolvidas no processamento de miRNAs, precursores de miRNAs e seus maduros em quatro espécies de cnidário (*Acropora digitifera*, *Exaiptasia pallida, Orbicella faveolata* e *Stylophora pistillata*) a fim de entender melhor estes organismos, como animais, e também identificar vestígios vegetais em seus genomas, transcrissomas e proteomas. As prováveis proteínas foram identificadas com a ferramenta BLASTp, onde sequências de *Arabidopsis thaliana* e *Caenorhabditis elegans* foram usadas como query contra o proteoma predito dos cnidários. Um software otimizado, com filtros para características conservadas foi usado para busca e identificação dos prováveis precursores de conservados miRNAs. Foram identificadas proteínas e miRNAs vegetais nos cnidários. O que sugere um antepassado comum entre animais e plantas. Assim, nossos resultados fomentam de forma preliminar nossa hipótese sobre a evolução divergente dos miRNAs nos diferentes reinos.

ABSTRACT

Cnidarian, phylum of the kingdom Animalia, has great ecological and economic importance, due to the characteristics of high capacity of adaptation to adverse environments. Mechanisms that intercede for changes in gene expression in response to stress remain unknown. A better understanding of the regulatory mechanisms of expression can make it possible to overcome some of the current environmental challenges. MiRNAs it has been considered important in the mRNA expression control. The miRNAs in plants and animals are well studied, however, there is an evolutionary gap on the emergence of these in these two kingdoms. The most accepted hypothesis is the convergent evolution, where the miRNAs are believed to have evolved independently, without a common ancestor. In order to better understand these organisms and to identify vegetal traces, the aim of this work was to search for proteins involved in the biogenesis of miRNAs, precursors of miRNAs and their mature ones in four cnidarians: *Exaiptasia pallida*, *Acropora digitifera*, *Orbicella faveolata* and *Stylophora pistillata* genomes, transcriptomes and proteomes. Proteins were identified with the BLASTp tool, where *Arabidopsis thaliana* and *Caenorhabditis elegans* sequences were used as a query against the cnidarian proteome. An optimized software with filters for conserved features was used to search for and identify putative precursors. Mature miRNAs were identified with the aid of miRBase. Proteins and plant miRNAs were identified in the cnidarians. This suggests a common ancestor between animals and plants. Thus, our preliminary results support our hypothesis on the divergent evolution of miRNAs in different kingdoms.

LISTA DE ABREVIATURAS E SIGLAS

ABH1	ABA hypersensitive 1
AGO	argonaute
AMFE	Adjusted Minimum Free Energy
ARS2	arsenic resistance protein 2
BLAST	Basic Local Alignment Search Tool
BLASTn	Nucleotide BLAST
BLASTp	Protein BLAST
CAPES	Coordenação de Aperfeiçoamento de Pessoal de Nível Superior
CNPq	Conselho Nacional de Desenvolvimento Científico e Tecnológico
CO_2	dióxido de carbono
DCL	dicer
DCL1	Dicer-like 1
DRSH	drosha
dsRNA	double strand RNA
CBP20	CAP-binding protein 20
CPL1	C-terminal domain phosphatase-like 1
DDL	RNA-binding proteins dawdle
DRB4	double-stranded-RNA-binding protein 4
EXO	phosphate-responsive 1 family protein
FAPEMIG	Fundação de Amparo à Pesquisa do Estado de Minas Gerais
HEN1	HUA ENHANCER1
HST	Hasty
HYL1	HYPONASTIC LEAVES1
IBTEC-UFU	Instituto de Biotecnologia – UFU

MFE	minimum free energy
MFEE	Minimum Free Energy of the Thermodynamic Ensemble
MFEI	Minimum Free Energy Index
miRNA	microRNA
mRNA	RNA mensageiro
NCBI	National Center for Biotechnology Information
NRPD1a	nuclear RNA polymerase D1A
NRPD1b	nuclear RNA polymerase D1B
PASH	pasha
Pre-miRNA	precursor de miRNA
PFAM	protein family database
Pri-miRNA	miRNA primário
PROPP-UFU	Pró-Reitoria de Pós-Graduação e Pesquisa - UFU
RDR1	RNA-dependent RNA polymerase 1
RDR2	RNA-dependent RNA polymerase 2
RDR6	RNA-dependent RNA polymerase 6
RNA	ácido ribonucleico
SE	serrate
SGS3	suppressor of gene silencing 3
siRNA	small interfering RNA
SQN	squint
UFU	Universidade Federal de Uberlândia
VCS	varicose
XPO	exportin
XRN4	exoribonuclease 4

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1 INTRODUÇÃO

1.1 Problema da pesquisa

Cnidaria é um filo, pertencente ao reino Animalia, mais próximo evolutivamente ao reino Plantae uma vez que se encontra perto da divisão dos reinos. O filo é representado pelas hidras, medusas ou água-vivas, corais e anêmonas-do-mar. Os cnidários foram os primeiros animais com cavidade digestiva. Isso permitiu aos animais ingerirem maiores quantidades de alimento, pois o alimento é quebrado em menores pedaços para ser absorvido pelas células. Os cnidários apresentam simetria radial e são os primeiros animais na escala evolutiva a apresentarem tecidos verdadeiros, embora ainda não tenham órgãos formados. Os cnidários, em geral, têm uma alta capacidade de mudança mediante ambientes estressantes. São organismos altamente adaptativos às condições ambientais. Assim, os estudos dos mecanismos regulatórios desses organismos podem expandir o conhecimento sobre a forma com que esses organismos reagem frente a ambientes estressantes. Assim os cnidários podem gerar produtos com potencial biotecnológico que poderão ser comercializados com várias utilidades nas indústrias.

Os pequenos RNAs têm sido estudados em diversos organismos e mostrado um importante papel na regulação de genes. Dentro desta classe, os miRNAs se destacam por sua função de silenciamento gênico, através de sua ligação com o mRNA, impedindo o processo de tradução por silenciamento ou degradação do mRNA. Sendo assim, diversos estudos estão sendo feitos para identificação destas moléculas e também as prováveis proteínas envolvidas na via de processamento dos miRNAs.

Alguns estudos já foram feitos sobre miRNAs em cnidários. Devido a sua adaptabilidade, estes organismos são de grande relevância para esse tipo de estudo. Nestes estudos, os miRNAs se mostraram bastante importantes em resposta ao escuro, temperatura, altos níveis de CO_2 e radiação ultravioleta. Também já existem estudos sobre os genes envolvidos na via de biogênese das moléculas de miRNAs.

Nos últimos anos, vários sequenciamentos foram feitos com genomas de cnidários, o que nos permite explorar esses dados a fim de aprofundar o conhecimento sobre estes organismos. Genomas de vários cnidários estão disponíveis em bancos de dados públicos. As ferramentas de bioinformática nos permitem identificar genes que seriam perdidos em análises experimentais, pela variação da expressão devido ao ambiente.

Existe uma lacuna evolutiva sobre o surgimento dos miRNAs a partir, ou não, de um ancestral comum aos animais e plantas. Assim, o estudo sobre miRNAs em cnidários tem

importância significativa para a construção do conhecimento sobre a evolução dos miRNAs em eucariotos. Recentemente, um estudo sobre esta lacuna evolutiva foi realizado em *Nematostella vectensis* e fortes evidências apontam uma luz para solucionar este problema. Este estudo levantou características importantes sobre os miRNAs e genes envolvidos em sua biogênese, bem como sua ligação com seus mRNA alvos. Um dos argumentos para a evolução divergente apresentado neste estudo foi a presença da proteína HYL1 no núcleo celular de cnidários, uma proteína auxiliar da proteína Dicer apenas em processos de formação de miRNA em plantas e não em animais bilaterais (onde a Dicer participa apenas no citoplasma para a clivagem do pre-miRNA). O tamanho do precursor de miRNA em plantas também se destaca como diferença em relação aos animais por ser mais longo e variável. Foi relatado em um cnidário, *N. vectinensis*, precursores de miRNAs mais longos e variáveis, assim como os das plantas.

Um rápido *turnover* nas sequências de miRNAs pode ter levado a uma perda significativa de miRNAs comuns a plantas e animais bilaterais, onde percebe-se a falta de homologia entre miRNAs de plantas em relação aos miRNAs de animais. Esses miRNAs possíveis, que teriam vindo de um ancestral comum podem ter sido perdidos. Mutações nos genes dos miRNAs que não possuíam função biológica em determinados organismos ou mesmo mRNAs alvos poderiam deixar de serem expressos em algumas espécies, no decorrer da evolução, podem ter ocasionado essa falta de homologia entre os reinos Animalia e Plantae. Portanto, apenas pela falta de homologia entre as sequências, não se pode afirmar que a origem dos miRNAs em eucariotos ocorreu convergentemente.

1.2 Hipótese

Até então, acredita-se que miRNAs de plantas e animais não são derivados de um ancestral comum (evolução convergente). No entanto, alguns estudos têm sido feitos e mostraram uma grande semelhança quanto às proteínas envolvidas na via de processamento dos miRNAs, as moléculas efetoras dos mesmos e até a forma com que eles interagem com seus mRNAs alvos em cnidários, que são do reino Animalia, e plantas. Mesmo com a falta de homologia entre as sequências de miRNAs em plantas e animais bilaterais, cnidários possuem estas características que se assemelham bastante às plantas. Isso sugere que o surgimento dos miRNAs pode ter uma origem comum entre animais e plantas.

1.3 Objetivos

1.3.1 Objetivo Geral

Buscar, utilizando análise *in silico*, genes presentes em cnidários envolvidos na via de silenciamento gênico mediada por miRNAs, além das moléculas de precursores de miRNAs e seus maduros.

1.3.2 Objetivos Específicos

- Desenvolver um software para a caracterização de miRNAs e seus precursores utilizando dados de genoma de cnidários;
- Desenvolver um software para busca de prováveis proteínas envolvidas na via de processamento de miRNAs utilizando dados de genoma, transcrissoma e proteoma predito de cnidários;
- Analisar a conservação das prováveis proteínas envolvidas na via de processamento de miRNAs em cnidários utilizando análises de domínios conservados, análise de resíduos do sítio ativo e análise filogenética;
- Analisar a conservação dos miRNAs maduros e seus precursores em cnidários utilizando conservação de estrutura primária, secundária e análise filogenética;

1.4 Justificativa

Devido às características dos organismos do filo cnidária, tal como sua alta adaptação aos ambientes mais adversos, o estudo sobre miRNAs torna-se de especial importância uma vez que além de elucidar os mecanismos genéticos subjacentes à sobrevivência e adaptação ao estresse destes indivíduos, o estudo de miRNAs em cnidários pode trazer à luz uma informação essencial sobre a origem e evolução destas moléculas em plantas e animais.

2 REFERENCIAL TEÓRICO

Cnidaria é um filo do reino Animalia que representa uma antiga linhagem que divergiu dos outros metozoários a mais de 600 milhões de anos atrás. Os indivíduos desse filo compartilham algumas características em comum com os bilaterianos, como músculos e neurônios. No entanto, são diploblásticos e não possuem a camada mesodérmica (MORAN et al., 2013). Esses organismos possuem qualidades de grande interesse científico, pois, nas mais adversas condições, eles mostram alta adaptabilidade e susceptibilidade diferencial ao estresse (GAJIGAN & CONACO, 2017). Em situações de mudanças de temperatura, por exemplo, os cnidários reagem com expressão diferencial de genes envolvidos na homeostasia celular, óxido-redução e estresse oxidativo; mostrando um grau de tolerância térmica (BELLANTUONO et al., 2012). Estudos também evidenciaram as mudanças de alguns corais mediante a outras condições, tais como, escuridão a longo prazo, altos níveis de CO_2 e radiação ultravioleta (DESALVO et al., 2012; MOYA et al., 2012; ARANDA et al., 2011). Sendo assim, estes indivíduos provavelmente possuem uma maquinaria celular robusta para suportar tais mudanças.

Estudos recentes, nos mais diversos organismos, têm evidenciado a importância da regulação gênica envolvendo pequenos RNAs, suas vias de processamento e sua atuação ao nível celular (MOAZED, 2009). Alguns dos principais pequenos RNAs não codificadores são os miRNAs, os pequenos RNAs interferentes (siRNAs) e os RNAs associados a proteína PIWI (piRNAs). Estes pequenos RNAs se diferenciam em tamanho, biogênese e o alvo final (KIM et al., 2009). Os miRNAs têm se destacado, devido as suas funções diversas na regulação da expressão gênica, desempenhando papel de direcionar a repressão transcricional de mRNAs em diferentes condições incluindo fases do ciclo de vida e desenvolvimento em diversos organismos incluindo plantas e animais (MURPHY et al., 2008). O processo de regulação transcricional se resume na ligação complementar entre o miRNA e o RNA mensageiro alvo em regiões específicas levando sua inibição e/ou degradação.

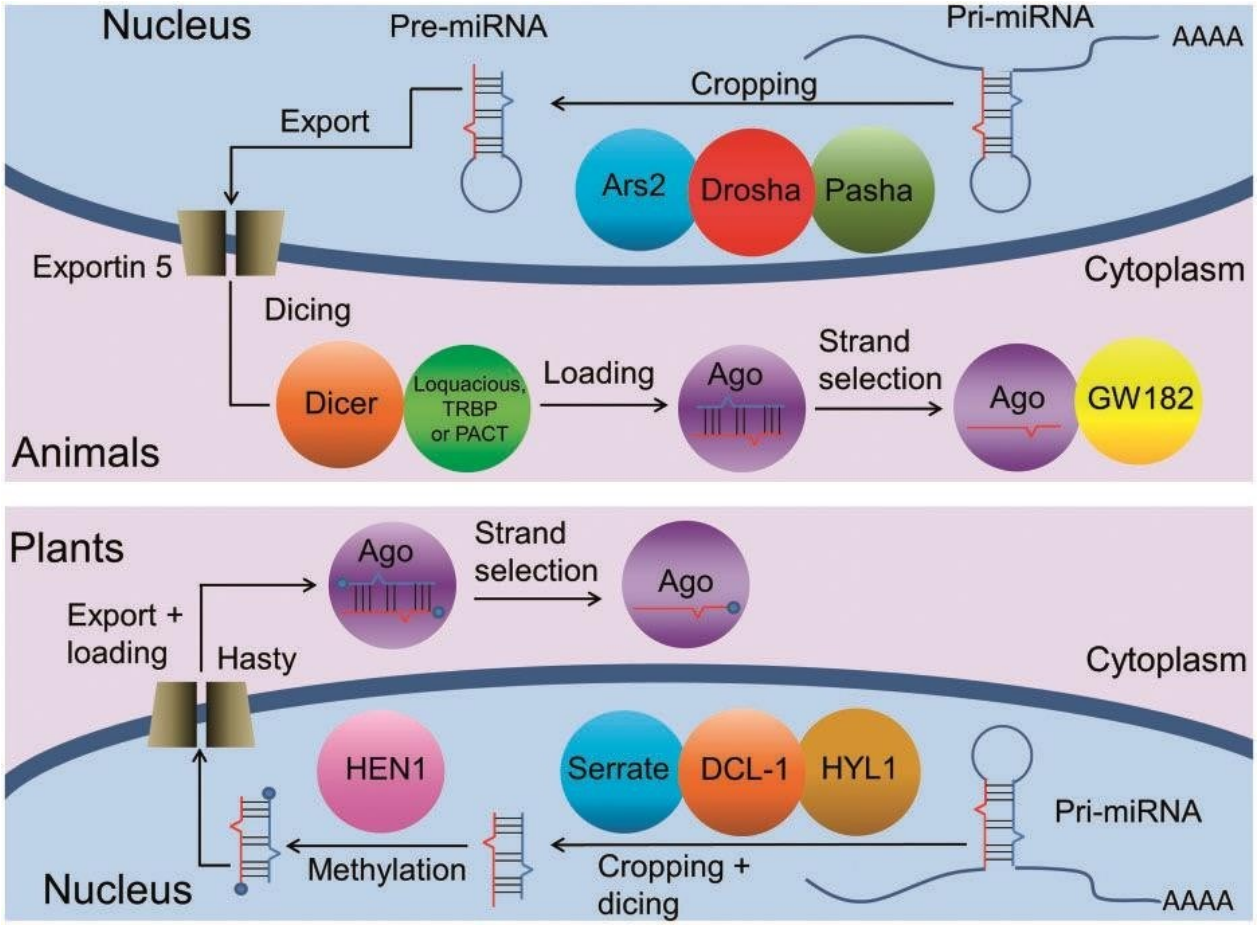
Os miRNAs são transcritos primeiramente em um longo RNA denominado miRNA primário ou pri-miRNA que são processados por enzimas específicas gerando os pre-miRNAs. Os pre-miRNAs possuem características específicas, como estruturas secundárias conservadas, estabilidade em forma de grampo (*hairpin*), sendo ligeiramente maiores que os miRNAs maduros que possuem ~22 nucleotídeos. Os pre-miRNAs têm, em média, de 80 a 120 nucleotídeos em animais e 200 a 300 nucleotídeos em plantas (WINTER et al., 2009). Ao

contrário dos animais bilaterais, o precursor das plantas é longo e variável (AXTELL et al., 2011). Alguns cnidários apresentam maior quantidade e mais variáveis pre-miRNAs do que seus homólogos bilaterais (GRIMSON et al., 2008).

Os pri-miRNAs são processados pelo complexo liderado por Drosha (RNAse III nuclear) dentro do núcleo e exportadas para o citoplasma pela proteína Exportina-5 (animais) ou HASTY (plantas). No citoplasma, proteínas como Argonauta, principal componente de RISC, são distintas em suas ações, processando diferentes RNAs e almejando diferentes tipos de alvos (PETERS & MEISTER, 2007).

Plantas e animais mostram algumas diferenças, tanto nas proteínas envolvidas na via quanto nas próprias moléculas de miRNA. A figura 1 ilustra bem estas discrepâncias, de acordo com Moran e colaboradores em 2013. Em animais, para o processamento do pri-miRNA, um complexo de microprocessador especializado é composto pela RNAse III Drosha com o auxílio da proteína de ligação de RNA Pasha, enquanto o segundo passo de clivagem é realizado pela RNAse III Dicer (KIM et al., 2009). Em plantas, o homólogo Dicer, DICER-LIKE 1 (DCL1), é responsável por ambos os eventos de processamento necessários para a maturação do miRNA, conduzindo os dois mesmos passos exatamente na mesma ordem (VOINNET, 2009). Tanto nas plantas quanto nos animais, Dicer é crucial para processar o miRNA precursor em dúplex maduros miR/miR* dsRNA. As análises filogenéticas e estruturais indicam que em animais, a Drosha pode ter evoluído após uma duplicação do antepassado comum de Dicer e Drosha e ainda se especializou no primeiro passo de processamento de miRNAs (CERUTTI et al., 2006; KWON et al., 2016).

Figura 1. Via de processamento de miRNAs em animais e plantas.



Fonte: Moran et al, 2013.

Estudos em animais relataram a presença de Dicer no núcleo (BURGER & GULLEROVA, 2015). Se a localização nuclear de Dicer em animais é uma relíquia de uma antiga via de processamento de miRNA ou uma adaptação secundária é uma questão aberta (MORAN et al., 2017). Em plantas e animais, a Dicer requer proteínas auxiliares para clivar com precisão os pre-miRNAs (VOINNET, 2009; KIM et al., 2009). Em plantas, SE e HYL1 auxiliam a DCL (VOINNET, 2009) e em animais existe uma proteína homóloga da SE, ARS2 (SABIN et al., 2009). Mas não há nenhum homólogo da HYL1 em animais bilaterais. Essas diferenças na biogênese foram tomadas como evidência adicional para uma evolução independente de miRNAs vegetais e animais (MORAN et al., 2017). No entanto, homólogos para SE e HYL1 foram recentemente relatados na esponja *Amphimedon* e em cnidários, incluindo *Nematostella*, todos possuindo motivos de ligação de dsRNA (MORAN et al., 2013). Isso sugere que uma proteína semelhante a HYL1 estava presente no último antepassado comum de plantas e animais e foi perdida em linhagens múltiplas, incluindo Bilateria.

Em plantas, a proteína HEN1 é responsável pela metilação dos siRNA e dos miRNA (VOINNET, 2009). miRNAs de animais bilaterais não passam por esta modificação (GHILDIYAL & ZAMORE, 2009). No entanto, HEN1 foi encontrada em *Nematostella* (MORAN, 2013) além de que foi uma fração importante dos miRNA de *Nematostella* é metilada, semelhante às plantas (GRIMSON et al., 2008; MORAN, 2014). Isto suporta a ideia de que um antepassado comum de animais e plantas possuía miRNAs metilados, uma característica mais tarde perdida em bilaterianos, possivelmente devido à perda de alta complementaridade entre miRNAs e seus alvos (MORAN et al., 2017).

O modo de ação dos miRNAs em relação aos seus alvos em plantas e animais também se difere. Em animais, o reconhecimento do miRNA-mRNA é feito por uma parte do miRNA, posições 2-8, e, por isso, cada miRNA regula uma grande quantidade de alvos (BARTEL, 2009). Em plantas, há uma alta complementariedade miRNA-mRNA, e isso promove a clivagem do alvo (HUTVAGNER & SIMARD, 2008; HUNTZINGER & IZAURRALDE, 2011, HUTVAGNER ZAMORE, 2002). Em 2014 Moran e colaboradores observaram que os miRNAs de *Nematostella* clivavam seus alvos por complementaridade quase perfeita, mais semelhantes aos miRNAs vegetais do que os miRNA bilaterais (MORAN et al, 2014). Provavelmente a ligação ao alvo com a sequência semente do miRNA pode ser uma característica do último ancestral comum de todos os bilaterianos (MORAN et al., 2017). Esta característica dos miRNAs de animais bilaterais justificam a baixa taxa de rotação de miRNAs em animais, pois a perda de um único miRNA afetaria vários alvos.

Alguns estudos já foram feitos sobre miRNAs em cnidários. Foram encontrados alguns miRNAs como o miR-100, altamente conservado em animais bilaterais, com uma mudança de apenas um nucleotídeo em *A. digitifera* e outros cnidários (GAJIGAN & CONACO, 2017). Os miRNAs maduros miR-13-3p, miR-40-3p e o miR-2022-3p foram relatados em hidras e estavam diretamente envolvidos com a regeneração destes organismos (KRISHNA et al., 2013). O miR-2026 foi identificado como regulador de um fator de transcrição em *Nematostella* e o miR-2025 foi identificado em outros três cnidários também (MORAN et al., 2017). Também foi observado uma alta similaridade de miRNAs em cnidários com o miR-156, comum em plantas (MORAN et al., 2017). Com o depósito de genomas completos de cnidários em bancos de dados públicos, pode ser que existam maiores informações sobre a via de formação, precursores de miRNA e maduros. Neste estudo, pretende-se uma melhor exploração destas informações.

Várias estratégias têm sido usadas para identificação de miRNAs e seus precursores em vários organismos (HAMMOND, 2006; HUANG et al. 2011; GOMES et al. 2011). Estas

estratégias se baseiam em abordagens computacionais e experimentais (HAMMOND, 2006; YU et al. 2009; HUANG et al. 2011). As abordagens experimentais como sequenciamento, expressão e clonagem almejam a identificação de miRNAs presentes em determinados estágios, tecidos e/ou diferentes tipos celulares. A vantagem destas técnicas é fundamentada na obtenção de provas físicas da presença de certas moléculas. Entretanto, a análise experimental pode excluir miRNAs pouco ou nada expressos. Por outro lado, as técnicas computacionais podem auxiliar o processo de descoberta de novos miRNAs. Eles podem ser preditos a partir de toda informação contida em um genoma e/ou transcriptoma (LI et al., 2010). Estudos semelhantes foram desenvolvidos, em nosso grupo, em feijão (CARDOSO, et al. 2016) e tomate (CARDOSO, et al. 2018) com uma abordagem bastante parecida e novos miRNAs foram identificados e caracterizados.

A hipótese mais aceita da evolução dos miRNAs é a evolução convergente, onde os miRNAs teriam surgido nos reinos Animalia e Plantae independente de um ancestral comum. Esta hipótese é bem aceita devido a falta de homologia entre os miRNAs dos dois reinos. Neste estudo, buscamos evidências para contradizer esta hipótese e, por meio da bioinformática, encontrar indícios de um ancestral comum entre os dois reinos. Essa pesquisa será realizada com genomas de cnidários, animais primitivos. miRNAs vegetais e proteínas envolvidas em sua via serão buscados nos genomas de animais.

Neste estudo propõe-se a busca e caracterização de miRNAs e também as proteínas envolvidas em seu processamento nos genomas de cnidários disponíveis em bancos de dados públicos. A linguagem de programação Perl foi utilizada para a construção de um software utilizado na identificação de precursores de miRNAs. Foram utilizadas ferramentas de bioinformática para predição de estruturas, domínios conservados e análise filogenética de proteínas e caracterização dos precursores de miRNAs e maduros. Portanto, este estudo traz uma significativa contribuição para o conhecimento destas moléculas importantes para os seres vivos em cnidários. E também poderá esclarecer um importante aspecto sobre a origem e evolução dos miRNAs em eucariotos.

CAPÍTULO ÚNICO

AN ALTERNATIVE EXPLANATION FOR THE EVOLUTION OF miRNAs in plants and animals

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ABSTRACT

Cnidarian, phylum of the kingdom Animalia, has great ecological and economic importance, due to the characteristics of high adaptation capacity to adverse environments. Mechanisms that mediate changes in gene expression in response to stress remain unknown and there is a need to look at regulatory mechanisms that control gene expression in the face of environmental challenges. MiRNAs have been considered important in the mRNA expression control. The miRNAs in plants and animals are well studied, however, there is an evolutionary gap on the emergence in two kingdoms. The most accepted hypothesis is the convergent evolution, where the miRNAs are believed to have evolved independently, without a common ancestor. In order to better understand these organisms and to identify vegetal traces, the aims of this work were to search the putative proteins involved in the processing pathway of miRNAs and the precursor and mature miRNAs in genomes, transcriptomes and proteomes of four cnidarian species: *Acropora digitifera*, *Exaiptasia pallida, Orbicella faveolata* and *Stylophora pistillata*. Cnidarian miRNA pathway proteins were predicted using the BLASTp tool and *Arabidopsis thaliana* and *Caenorhabditis elegans* sequences as queries. Optimized software with specific filters for conserved miRNA features was used to search putative miRNAs in four species. Putative proteins involved in miRNA pathway and plant miRNAs were identified in the four cnidarian species. This suggests a common ancestor between animals and plants. Thus, our preliminary results support our hypothesis on the divergent evolution of miRNAs and their processing pathway in both plant and animal kingdoms.

INTRODUCTION

Cnidaria is a phylum, belonging to the kingdom Animalia, which represents an ancient lineage that diverged from other metozoaria more than 600 million years ago. So it's a phylum evolutionarily close to the kingdom Plantae as it is close to the division of the kingdom. It is represented by hydras, jellyfish, corals and sea anemones. These organisms have qualities of great scientific interest because they have a high capacity for change through stressful environments. These organisms are highly adaptive to environmental conditions. In the most adverse conditions, they show high adaptability and differential susceptibility to stress[9]. In situations of temperature changes, for example, cnidarians react with differential gene expression involved in cellular homeostasis, oxido-reduction and oxidative stress; showing a degree of thermotolerance[10]. Studies have also shown changes in some corals by other conditions, such as long-term darkness, high levels of CO_2 and ultraviolet[11-13]. Thus, these individuals probably have a robust cellular machinery to withstand such changes.

Small RNAs have been studied in many organisms and showed an important role in gene regulation[1]. Within this class, the microRNAs (miRNAs) are distinguished by their function of gene silencing, through their binding to the mRNA, blocking the translation process by silencing or mRNA degradation[2]. Thus, several studies are being done to identify these molecules and also the proteins involved in the miRNA formation pathway.

miRNAs are first transcribed in a long RNA, called primary miRNA or pri-miRNA that is processed by specific enzymes generating the precursors of miRNAs (pre-miRNAs). Pre-miRNAs have specific characteristics, such as conserved secondary structures and stability in the form of hairpin. They have on average about 80 to 120 nucleotides in animals and 200 to 300 nucleotides in plants[3]. These precursors are processed and give rise to mature miRNAs (~22 nucleotides). The two mature are termed as 3p or 5p, based on the position they are in pre-miRNA. Mature have the effective function of miRNAs, as an active form of these molecules. They bind to target mRNAs, disrupting the translation of proteins and fulfilling the regulatory function of genes[3].

In animals the pri-miRNA processing is performed by a specialized microprocessor complex composed of the RNAse III Drosha (DRSH) with the aid of the Pasha RNA binding protein (PASH), DGCR8 in vertebrates[4]. The pri-miRNAs undergo the first cleavage by this complex and become pre-miRNAs inside the nucleus. Then they are exported to the cytoplasm by the protein Exportin (XPO). Out of the nucleus occurs the second cleavage by DICER-LIKE

1 (DCL1), which processes the pre-miRNA in duplexes of mature miR/miR* dsRNA. The RISC complex, whose main protein is Argonaute (AGO), operate by binding to the mature miRNA and directing the same to its target mRNA[5,6]. In animals the complementary miRNA mature and target mRNA is perfect from nucleotide 2 to 8 of mature, termed seed region[7].

In plants, the DCL1 homologous is responsible for both processing events required for miRNA maturation, leading the two steps[8]. The pri-miRNA is cleaved by a complex containing Ribonuclease III (RNase III), DCL1 and other accessory proteins such as SERRATE (SE) and HYPONASTIC LEAVES 1 (HYL1), to generate the pre-miRNA[8]. Also in the nucleus, the pre-miRNAs undergo a second cleavage step, performed by RNAse III DCL1. The DCL1 complex cleaves the duplex of miRNA which generates miRNA pre-miRNA, which is methylated by the methyl transferase HUA ENHANCER1 (HEN1)[8]. The mature is exported by HASTY (HST) to the cytoplasm. The AGO protein, together with RISC, carries the mature miRNA for the recognition of different types of targets. In plants, the complementary miRNA mature and target mRNA is high and almost perfect[7].

Several strategies have been used to identify miRNAs and their precursors in various organisms[14-16]. These strategies are based on computational and experimental approaches[14,17,18]. Experimental approaches such as sequencing, expression and cloning aim to identify miRNAs present in certain stages, tissues and/or different cell types. The advantage of these techniques is based on obtaining physical evidence of the presence of certain molecules. However, the experimental analysis may exclude little or no expressed miRNAs. On the other hand, the computational techniques can assist the process of discovery of new miRNAs. They can be predicted from genome and/or transcriptome sequences[19].

The most accepted hypothesis about the evolution of miRNAs is the convergent evolution. In this type of evolution, organisms have similar characteristics and functions but not inherited from a common ancestor. It is believed that miRNAs have emerged in Plantae and Animalia kingdoms independently, due to lack of sequence homology between miRNA families in plants and animals, as well as differences in miRNA biogenesis and mode of action of these molecules. However, we believe that there is a common ancestor that had this regulatory mechanism as specific and important for the maintenance of life. Thus, we have investigated four species of cnidarians, primitive animals, in order to find traces plant in genomes and transcrissomes these species. Thus, in this study we proposed to search and characterize miRNAs and their processing pathway genes in the four cnidarian species, *Exaiptasia pallida*, *Acropora digitifera*, *Orbicella faveolata* and *Stylophora pistillata*, available in public databases.

MATERIALS AND METHODS

Prediction of putative proteins involved in the miRNA processing pathway

For the prediction of the genes and proteins involved in the biogenesis of miRNAs, were used genomes and transcriptomes sequences of four cnidarians: *E. pallida*, *A. digitifera*, *O. faveolata* and *S. pistillata*. These data are deposited in the public database NCBI (http: //www.ncbi.nlm.nih.gov/). To obtain the predicted proteins involved in the processing pathway of miRNAs, the sequences of *Arabidopsis thaliana* and *Caenorhabditis elegans* were retrieved from the reference protein database in the NCBI and used as queries in the BLASTp program against the predicted proteome of the cnidarian species. These organisms are considered as models, in their respective kingdoms, Plantae and Animalia. We chose *C. elegans* to better understand the biology of cnidarians and to enrich knowledge about these species as animals. *A. thaliana* was used to search for plant traits in the animal species studied to better understand miRNA evolution.

Analysis of conserved domains

Conserved domains were separately recovered from predicted proteins and their homologous to examine, through the multiple alignment, the presence of important amino acid residues to the corresponding protein. We used the PFAM - protein family database (http://pfam.sanger.ac.uk/) and Conserved Domains Database (http://www.ncbi.nlm.nih.gov/Structure/cdd/cdd.shtml) to execute the analysis. The default parameters were used.

Prediction of mature miRNAs and their precursors (pre-miRNAs)

Search for a putative mature and precursor miRNAs was performed using a software developed based on conserved characteristics of these molecules. First, sequences from the genome and transcriptome of the four cnidarians (https://www.ncbi.nlm.nih.gov/genome/?term=cnidarians), *E. pallida*, *A. digitifera*, *O. faveolata* and *S. pistillata,* with potential formation of hairpin structures or similarity with structures of miRNA precursors were obtained, using the method described by Gomes and colleagues[20], adapted for the species of cnidarians. Within this method, two different approaches were used for the identification of plant miRNAs and animal miRNAs. However,

they used the same main filters, based on structural and thermodynamic characteristics, such as GC content (guanine and cytosine), Minimum Free Energy (MFE), homology with mature miRNAs, Adjusted Minimum Free Energy (AMFE), Minimum Free Energy Index (MFEI), GC content and AU content, Minimum Free Energy of the Thermodynamic Ensemble (MFEE), Ensemble Diversity and frequency of the MFE structure in the ensemble. The approaches differ for animals and plants in characteristics of pre-miRNAs specific to each kingdom, such as the size of the sequence.

For the identification of the mature, a search software was developed within the miRBase database. The identification of the mature was done using the tool BLASTn and a maximum of 6 mismatches were accepted.

Sequence alignment and phylogenetic analysis

miRNA precursor sequences as well as the amino acid sequences of the predicted proteins obtained were subjected to multiple sequence alignment using the ClustalX 2.1 tool[21]. Using adjusted parameters (gap opening: 22.50; gap extension: 0.83).

Phylogenetic analysis was performed using the Neighbor-joining method for both sequence groups, precursor of miRNAs and proteins[22]. A consensus tree was inferred using bootstrap for 2000 replicas for protein and 5000 replicas for pre-miRNAs representing the evolutionary history of sequence group studied. The evolutionary distance for pre-miRNAs was computed using Kimura-2-parameters in site-substituted base units. For the putative proteins were used the JTT model. Phylogenetic analysis was conducted in the Mega5 program (https://www.megasoftware.net)[23].

Drawing up of figures

Corel Draw version 7 was used to make images of proteins and miRNAs.

In addition, we used RNAalifold (http://rna.tbi.univie.ac.at/cgi-bin/RNAWebSuite/RNAalifold.cgi) for alignment of miRNAs and RNAfold (http://rna.tbi.univie.ac.at/cgi-bin/RNAWebSuite/RNAfold.cgi) for secondary structures. In these steps the default parameters were maintained.

Machines in the experiments

Two computers with Intel Core i7 processors (with 8 cores) and 8 GB of RAM in each computer and one computer with an Intel Core i5 processor (four cores) and 8 GB of RAM were used to perform the experiments. All experiments were ran using Linux Ubuntu version

16.04.2 operating system. For the drawing of the figures was used a computer with Intel Core i7 and 8GB of RAM with Windows 10 OS.

RESULTS AND DISCUSSION

In order to show a conservation of miRNAs in plants and animals, suggesting a common ancestor between the two kingdoms, we look for plant traces in cnidarian species. They are primitive animals, and consequently, more evolutionarily close to the Plantae kingdom, when compared to the bilateral animals. Four species were studied: *E. pallida*, *A. digitifera*, *O. faveolata* and *S. pistillata*. Proteins involved in the miRNA processing pathway and also precursor and mature miRNAs were investigated in the cnidarians genome, transcriptome and proteome.

Identification of miRNA pathway proteins in cnidarians

It was identified five animal homology proteins involved in miRNA processing pathway in the genome of four cnidarians species. We also found several plant homology proteins involved in miRNA processing pathway: 17 in *Acropora digitifera*, 18 in *Exaiptasia pallida*, 19 in *Orbicella faveolata* and 19 in *Stylophora pistillata*.

It was used as query these five main proteins involved in the biogenesis of the miRNAs in animals: exportin (nuclear export receptor) (XPO), DCL, AGO, PASH and DRSH of the *C. elegans* organism. The five animal proteins investigated in the proteome of cnidarians *E. pallida*, *A. digitifera*, *O. faveolata* and *S. pistillata*, were found in all organisms (details in Table 1).

Table 1. Animal proteins involved in the miRNA pathway in *E. pallida*, *A. digitifera*, *O. faveolata* and *S. pistillata*.

Cnidarian Specie	Protein Name	Sequence ID	Size (aa)	*C. elegans* ID	Size (aa)	Blastp e-value
Acropora digitifera	XPO2	XP_015775784.1	968	NP_490716.1	938	2,00E-137
	DCL	XP_015762881.1	778	CCD62350.1	1037	1,00E-55
	AGO	XP_015751544.1	702	CAR97837.1	1023	0.0
	PASH	XP_015769232.1	574	NP_001293461.1	751	6,00E-12
	DRSH	XP_015764775.1	1412	NP_492599.1	1086	1,00E-92
Exaiptasia pallida	XPO2	XP_020896080.1	966	NP_490716.1	938	3,00E-150
	DCL	XP_020896387.1	985	CCD62350.1	1037	1,00E-56
	AGO	XP_020894818.1	853	CAR97837.1	1023	0.0
	PASH	XP_020907327.1	789	NP_001293461.1	751	1,00E-15
	DRSH	XP_020910406.1	1432	NP_492599.1	1086	2,00E-169

Orbicella faveolata	XPO2	XP_020613864.1	622	NP_490716.1	938	1,00E-76
	DCL	XP_020611351.1	987	CCD62350.1	1037	2,00E-63
	AGO	XP_020617481.1	696	CAR97837.1	1023	0.0
	PASH	XP_020619093.1	667	NP_001293461.1	751	2,00E-12
	DRSH	XP_020627688.1	1610	NP_492599.1	1086	7,00E-167
Stylophora pistillata	XPO2	XP_022801393.1	965	NP_490716.1	938	4,00E-147
	DCL	XP_022796607.1	992	CCD62350.1	1037	3,00E-57
	AGO	XP_022810535.1	893	CAR97837.1	1023	0.0
	PASH	XP_022800551.1	583	NP_001293461.1	751	5,00E-15
	DRSH	XP_022789155.1	1536	NP_492599.1	1086	3,00E-169

For the formation of the miRNAs some proteins are necessary[8]. pri-miRNA is processed to the mature, active form of the miRNA, through a few steps [3]. Animals and plants have some differences in the biogenesis of miRNAs. There are some proteins that are specific in plants, such as the protein that carries miRNA the nucleus into the cytoplasm (HST) and proteins that help the DCL (HYL1 and SE). These proteins, in theory, do not exist and have no biological function in animals. Thus, we investigated the presence of these molecules in the proteome of the cnidarians. We also look for the common animal proteins that are involved in the biogenesis pathway of miRNAs.

The plant proteins used as query were: ABA hypersensitive 1 (ABH1), AGO, CAP-binding protein 20 (CBP20), C-terminal domain phosphatase-like 1(CPL1), DCL, RNA-binding proteins dawdle (DDL), double-stranded-RNA-binding protein 4 (DRB4), phosphate-responsive 1 family protein (EXO), HST, HYL1, HEN1, nuclear RNA polymerase D1A (NRPD1a), nuclear RNA polymerase D1B (NRPD1b), RNA-dependent RNA polymerase 1 (RDR1), RNA-dependent RNA polymerase 2 (RDR2), RNA-dependent RNA polymerase 6 (RDR6), SE, suppressor of gene silencing 3 (SGS3), squint (SQN), varicose (VCS) e exoribonuclease 4 (XRN4). These proteins were found in the genomes of cnidarians from the proteins of the plant model organism: *A. thaliana*. Information about which proteins were found in each cnidarian and characteristics such as size and e-value of the alignment (blastp) is found in the table 2.

Table 2. Plant proteins involved in the miRNA pathway in *E. pallida*, *A. digitifera*, *O. faveolata* and *S. pistillata*.

Cnidarian specie	Protein Name	Sequence ID	Size (aa)	*A. thaliana* ID	Size (aa)	Blastp e-value
Acropora digitifera	ABH1	XP_015753903.1	707	OAO92838.1	750	6,00E-74
	AGO	XP_015751565.1	1010	AAD21514.1	997	0.0

	CBP20	XP_015766853.1	260	OAO92838.1	258	7,00E-09
	DCL	XP_015776860.1	1531	AEZ02177.1	1886	8,00E-76
	DDL	XP_015774738.1	274	OAP04516.1	314	9,00E-61
	DRB4	XP_015759442.1	924	OAP05764.1	355	2,00E-10
	HST	XP_015768513.1	425	AAO34666.1	1202	5,00E-24
	HYL1	XP_015759442.1	924	OAP12854.1	391	1,00E-05
	NRPD1a	XP_015756612.1	1317	AEE34042.1	1453	1,00E-46
	RDR1	XP_015768630.1	1393	OAP18817.1	1107	3,00E-146
	SE	XP_015753304.1	1075	OAP10615.1	720	9,00E-10
	SQN	XP_015770245.1	347	OAP09694.1	293	1,00E-62
	VCS	XP_015772086.1	1164	OAP06200.1	1360	8,00E-23
	XRN4	XP_015761285.1	973	AAG40731.1	947	9,00E-133
Exaiptasia pallida	ABH1	XP_020904819.1	801	AIU49613.1	750	1,00E-79
	AGO	XP_020894818.1	853	AAD21514.1	997	0.0
	CBP20	XP_020911336.1	154	OAO92838.1	258	3,00E-64
	DCL	XP_020894938.1	1435	AEZ02177.1	1886	2,00E-72
	DDL	XP_020907166.1	343	OAP04516.1	314	9,00E-66
	DRB4	XP_020904761.1	960	OAP05764.1	355	2,00E-06
	HST	XP_020894896.1	1071	AAO34666.1	1202	2,00E-09
	HYL1	XP_020901574.1	640	OAP12854.1	391	6,00E-06
	HEN1	XP_020904375.1	332	AAL05056.1	942	1,00E-34
	NRPD1a	XP_020907998.1	1915	AEE34042.1	1453	7,00E-47
	RDR1	XP_020892052.1	1928	OAP18817.1	1107	3,00E-146
	SE	XP_020896175.1	1152	OAP10615.1	720	2,00E-10
	SQN	XP_020915026.1	389	OAP09694.1	293	1,00E-83
	VCS	XP_020907292.1	1140	OAP06200.1	1360	6,00E-27
	XRN4	XP_020906922.1	987	AAG40731.1	947	3,00E-152
Orbicella faveolata	ABH1	XP_020625961.1	805	AIU49613.1	750	3,00E-75
	AGO	XP_020617411.1	1412	AAD21514.1	997	5,00E-174
	CBP20	XP_020617158.1	258	OAO92838.1	258	1,00E-10
	CPL1	XP_020631264.1	824	AEE84488.1	967	7,00E-04
	DCL	XP_020615803.1	1509	AEZ02177.1	1886	8,00E-83
	DDL	XP_020627183.1	228	OAP04516.1	314	4,00E-60
	DRB4	XP_020600878.1	949	OAP05764.1	355	1,00E-09
	HST	XP_020614458.1	985	AAO34666.1	1202	3,00E-36
	HYL1	XP_020600879.1	915	OAP12854.1	391	1,00E-08
	HEN1	XP_020630768.1	527	AAL05056.1	942	2,00E-36
	NRPD1b	XP_020603233.1	1475	AEC09767.1	1976	3,00E-40
	RDR1	XP_020631443.1	2420	OAP18817.1	1107	2,00E-145

	RDR2	XP_020624213.1	2787	AEE82976.1	1133	4,00E-129
	RDR6	XP_020619455.1	1949	AEE78550.1	1196	9,00E-138
	SE	XP_020626008.1	1068	OAP10615.1	720	2,00E-04
	SQN	XP_020607951.1	279	OAP09694.1	293	5,00E-65
	VCS	XP_020631276.1	1407	OAP06200.1	1360	6,00E-22
	XRN4	XP_020626164.1	980	AAG40731.1	947	1,00E-148
Stylophora pistillata	ABH1	XP_022784887.1	806	AIU49613.1	750	2,00E-74
	AGO	XP_022791662.1	1030	AAD21514.1	997	0.0
	CBP20	XP_022779162.1	157	OAO92838.1	258	5,00E-64
	DCL	XP_022788048.1	1455	AEZ02177.1	1886	2,00E-79
	DDL	XP_022784546.1	285	OAP04516.1	314	3,00E-60
	DRB4	XP_022807605.1	894	OAP05764.1	355	2,00E-09
	HST	XP_022804039.1	1212	AAO34666.1	1202	2,00E-44
	HYL1	XP_022807605.1	894	OAP12854.1	391	5,00E-07
	HEN1	XP_022800355.1	515	AAL05056.1	942	9,00E-35
	NRPD1a	XP_022799682.1	1226	AEE34042.1	1453	8,00E-50
	NRPD1b	XP_022790486.1	1919	AEC09767.1	1976	1,00E-50
	RDR1	XP_022805418.1	3384	OAP18817.1	1107	2,00E-136
	RDR2	XP_022784449.1	2787	AEE82976.1	1133	1,00E-127
	RDR6	XP_022795809.1	1951	AEE78550.1	1196	5,00E-130
	SE	XP_022788106.1	1234	OAP10615.1	720	2,00E-11
	SGS3	XP_022785277.1	1520	AAF73960.1	625	3,00E-05
	SQN	XP_022807602.1	379	OAP09694.1	293	7,00E-81
	VCS	XP_022799802.1	1398	OAP06200.1	1360	3,00E-21
	XRN4	XP_022794628.1	1043	AAG40731.1	947	7,00E-143

In this study, through bioinformatics, the proteins that were previously unique to plants were identified. This suggests remnants of a common ancestor between the two kingdoms, Animalia and Plantae.

In *Nematostella* Moran and colleagues[24] identified the HYL1 protein was found. It was found this same protein in the proteomes of *E. pallida*, *A. digitifera*, *O. faveolata* and *S. pistillata*. HYL1 was compared to orthologs *Oryza sativa*, *Pinus tabuliformis* and *A. thaliana* and showed conservation. It was can observe similarity when the cnidarians were compared to the plants. The conserved domain (DSRM double-stranded RNA binding motif) was maintained at twice species of cnidarians, as is observed on the plants shown in Figure 1 [insert Figure 1] for *A. thaliana*. In Figure 2 [insert Figure 2] we observed the conservation of the

active sites of the DSRM domain. In Figure 3 [insert Figure 3] the phylogeny was performed and corroborated with the tree of life.

Plant miRNAs found in the cnidarians genomes

The genomic sequences of the four cnidarian species, available in the NCBI database (https://www.ncbi.nlm.nih.gov) were fed into the software developed at the Laboratory of Bioinformatics and Molecular Analysis (LBAM) that have strict filters for the identification of miRNAs[20]. All the genomes studied were submitted to the software in both approaches: to find animal and plant miRNAs.

Precursors of plant miRNAs in cnidarian genomes were sought in order to support the hypothesis of a common ancestor between the two kingdoms. For this search, it was used the miRBase plant database as input in the software used in the research. It was also carried out the search of animal miRNAs, as a way of enriching the knowledge about these molecules so important for the genetic regulation in these species. 442 precursors of animal miRNAs were found in the four cnidarian species and 350 plant miRNAs, as shown in Table 3.

Table 3. Distribution of mature miRNAs and their precursors in the cnidarian species studied.

Specie	animal approach		plant approach	
	Animal pre-miRNA	Animal mature	Plant pre-miRNA	Plant mature
Acropora digitifera	138	141	108	108
Exaiptasia pallida	3	3	46	46
Orbicella faveolata	148	151	107	108
Stylophora pistillata	153	153	86	86

In *A. digitifera*, Gajigan and colleagues[9] identified 26 miRNAs and Liew and colleagues[25] found 31 miRNAs in *S. pistillata*. Our results provided further information on miRNAs in these species. For *E. pallida* and *O. faveolata* our results are entirely unpublished.

Information on thermodynamic and structural characteristics are in Supplementary Table 1. The observed values show that the probable precursors of miRNAs found are genuine.

The miRNAs miR827, mir1075, miR1886 and miR8029 were chosen for the characterization and exposure of alignments, secondary structures and phylogeny. These miRNA was chosed because it was found in at least two species of the four studied.

In Figure 4 [insert Figure 4] we observe the secondary structures of the miRNAs. We can observe that they have characteristics typical of miRNAs, such as hairpin. In plants, the

precursors of miRNA are longer and more variable. The miRNAs found in the cnidarians obey the same rule, bringing them even closer to the characteristics of the Plantae kingdom.

miR827

It was found the precursors spi-miR827 and apa-miR827 and the mature spi-miR827-3p and apa-miR827-3p. This miRNA is highly conserved in the Plantae kingdom. Found in more than 20 species, deposited in miRBase. This miRNA was associated with phosphorus deficiency signaling[26] and also involved pathogen attacks by nitrogen limitation adaptation[27].

Orthologs used for the characterization of this miRNA were *Fragaria vesca*, *Prunus persica*, *Gossypium raimondii*, *Gossypium hirsutum*, *Theobroma cacao*, *Nicotiana tabacum*, *Solanum tuberosum*, *Solanum lycopersicum*, *Asparagus officinalis*, *Citrus sinensis*, *Arabidopsis lyrata*, *A. thaliana*, *Brachypodium distachyon*, *Zea mays*, *Saccharum* sp, *Oryza sativa*, *Eugenia uniflora*, *Malus domestica* and *Populus trichocarpa*. In Figure 5 [insert Figure 5] we observed the distribution of the mature miRNA within the primary structure of the miRNA precursors. It can be observed that the conservation in these regions is higher, due to the maintenance of the functions of these molecules. The phylogenetic distribution (Figure 6 [insert Figure 6]) corroborates with the tree of life.

mir1075

Two precursors ofa-miR1075 and spi-miR1075 and their respective matures ofa-miR1075-5p and spi-miR1075-3p were found. This miRNA is described in the database in only one plant species: *Physcomitrella patens* [28].

Figure 7 [insert Figure 7] shows the nucleotide level similarity of the miRNAs found in the cnidarians *O. flaveollata* and *S. pistillata* with their ortholog. This miRNA does not yet have target mRNA described in the literature.

miR1886

It was found the precursors spi-miR1886 and ofa-miR1886 and the matures spi-miR1886-3p and ofa-miR1886-5p. This miRNA has been identified only in two species *A. thaliana* and *S. tuberosum* [29,30]. Organisms belonging to the families Brassicaceae and Solanaceae, respectively, and which are very evolutionarily close.

Figure 8 [insert Figure 8] shows the high conservation of cnidarians matured in relation to orthologs present in the database. In Figure 9 [insert Figure 9] we can see that the phylogenetic tree is within evolutionary patterns. The target mRNA of this miRNA is not yet known.

miR8029

It was found the precursors adi-miR8029 and ofa-miR8029 and the matures adi-miR8029-3p and ofa-miR8029-5p. This miRNA was only identified in *S. tuberosum* [31] in the miRBase database. In this species no target mRNA was identified.

In Figure 10 [insert Figure 10] we observed the alignment between the sequences of *A. digifitera* and *O. flaveollata* with the orthologous *S. tuberosum*.

CONCLUSION

By finding plant-specific proteins involved in the pathway of miRNAs and plant-specific miRNAs in cnidarian genomes, our hypothesis was strengthened. This study showed strong evidence on the existence of a common ancestor between plants and animals that possessed the miRNA mechanism and passed on to other generations such characteristics.

In addition, this study has brought a number of new information on the biology of the organisms *Acropora digitifera*, *Exaiptasia pallida*, *Orbicella faveolata* and *Stylophora pistillata*. Were identified 246 miRNAs in *A. digitifera*, 49 in *E. pallida*, 255 in *O. faveolata* and 239 in *S. pistillata*. Proteins involved in the miRNA pathway, especially plant proteins, were also identified, which strengthened the hypothesis of divergent evolution.

Future prospects for this study are addressed in the study of target mRNAs and also validation of miRNAs found in next generation sequencing available in public databases. In addition, intended to carry out a study of the animal miRNAs in primitive plants, so that it is investigated on the animal evidence in plants.

Acknowledgements

This work was funded by Foundation for Research Support of the State of Minas Gerais (FAPEMIG) provided a scholarship (process number 13502). We also thank the National Council for Scientific and Technological Development (CNPq), Coordination of Improvement of Higher Level Personnel (CAPES), Pro-Rectory of Postgraduate and Research (PROPP-UFU) and Institute of Biotechnology of the Federal University of Uberlandia (IBTEC-UFU) by support.

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CONCLUSÃO

Ao encontrar indícios vegetais no genoma e proteoma dos cnidários estudados (*Acropora digitifera*, *Exaiptasia pallida, Orbicella faveolata* and *Stylophora pistillata)*, nossa hipótese foi fortalecida. Proteínas como HYL1, SE e HST estiveram presentes em todos os organismos estudados. Além disso, foi encontrado um número significativo de miRNAs vegetais nos genomas. Também foram descobertos miRNAs animais, o que esclarece o conhecimento a respeitos destas moléculas em organismos que sofrem mudanças, devido ao ambiente. Sendo assim, a biologia dos cnidários foi melhor entendida, através deste estudo, bem como evidências foram fortalecidas a respeito da evolução divergente dos miRNAs.

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APÊNDICES

Figure 1. Conserved domain DSRM in cnidarians and *A. thaliana*

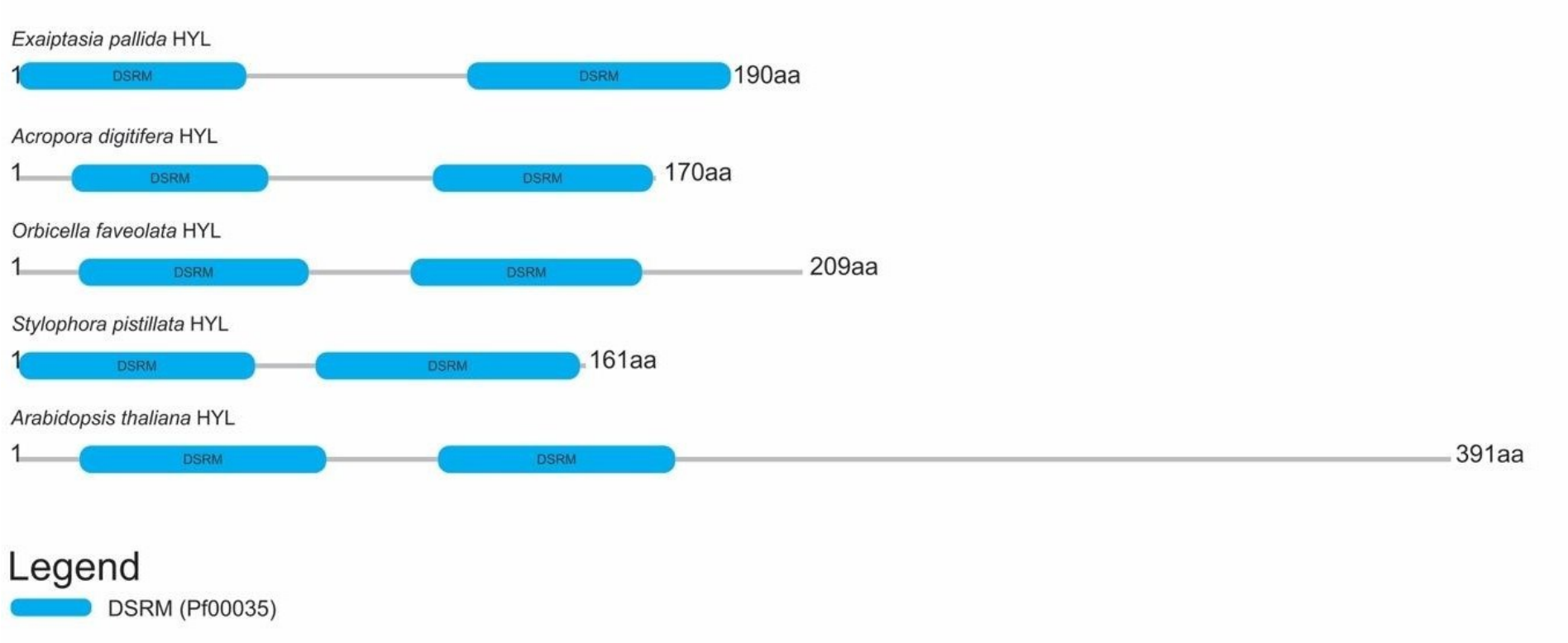


Figure 2. Active site of the domain DSRM.

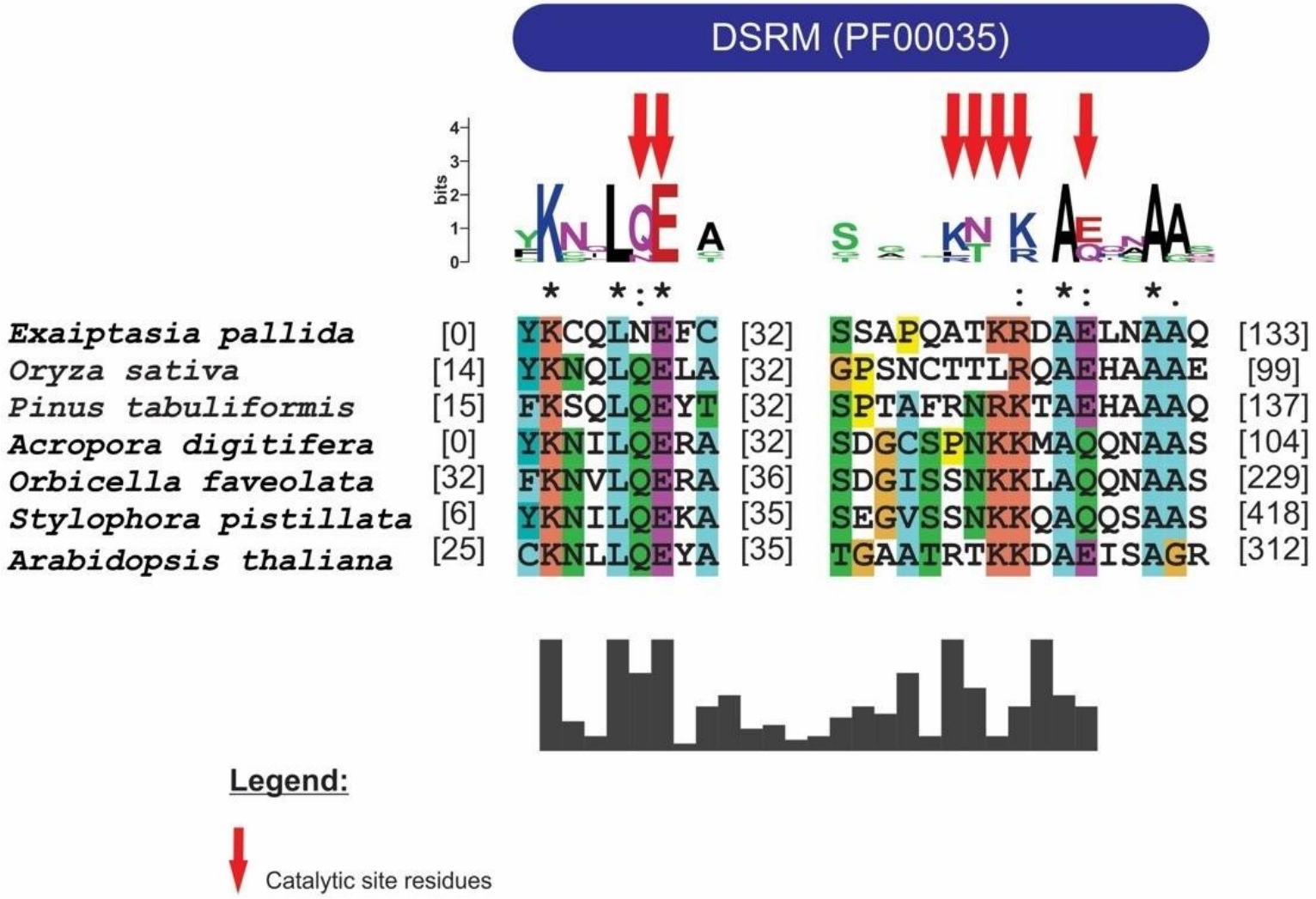


Figure 3. Phylogenetic analysis of the HYL1 protein

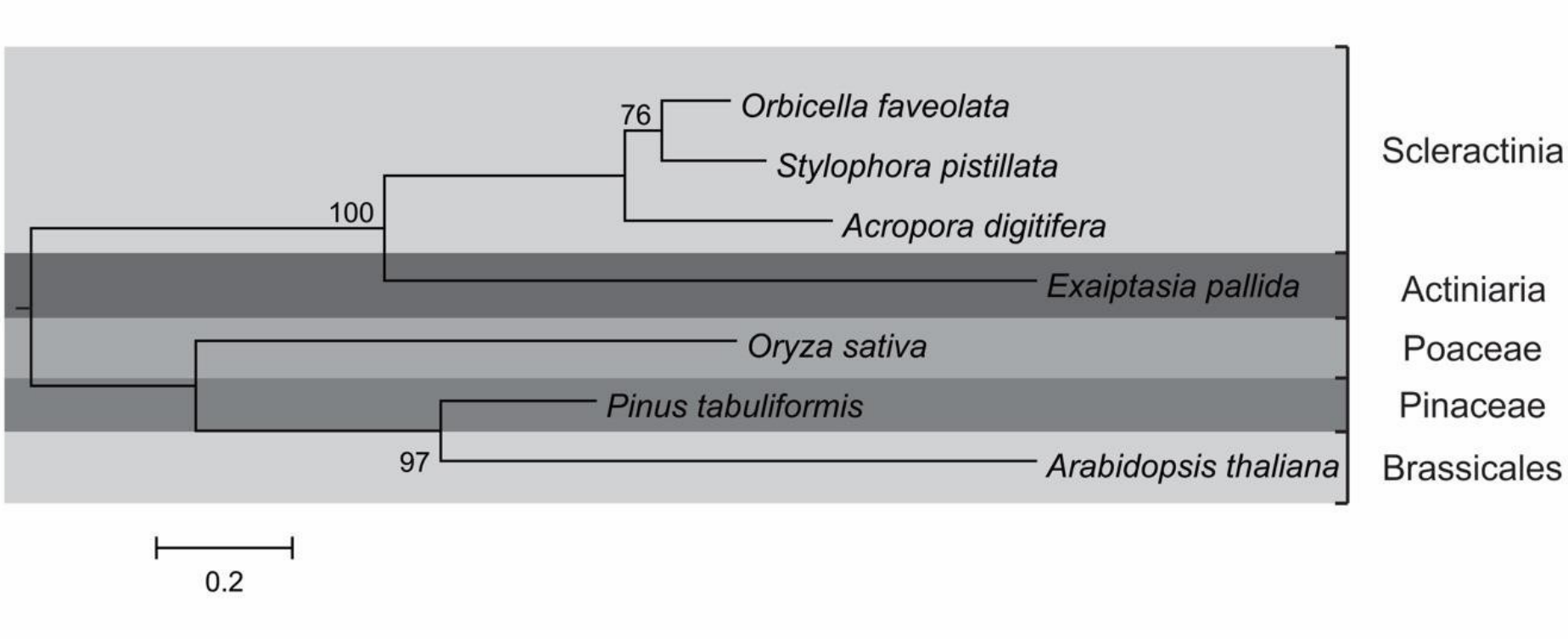


Figure 4. Secondary structures of cnidarians miRNAs

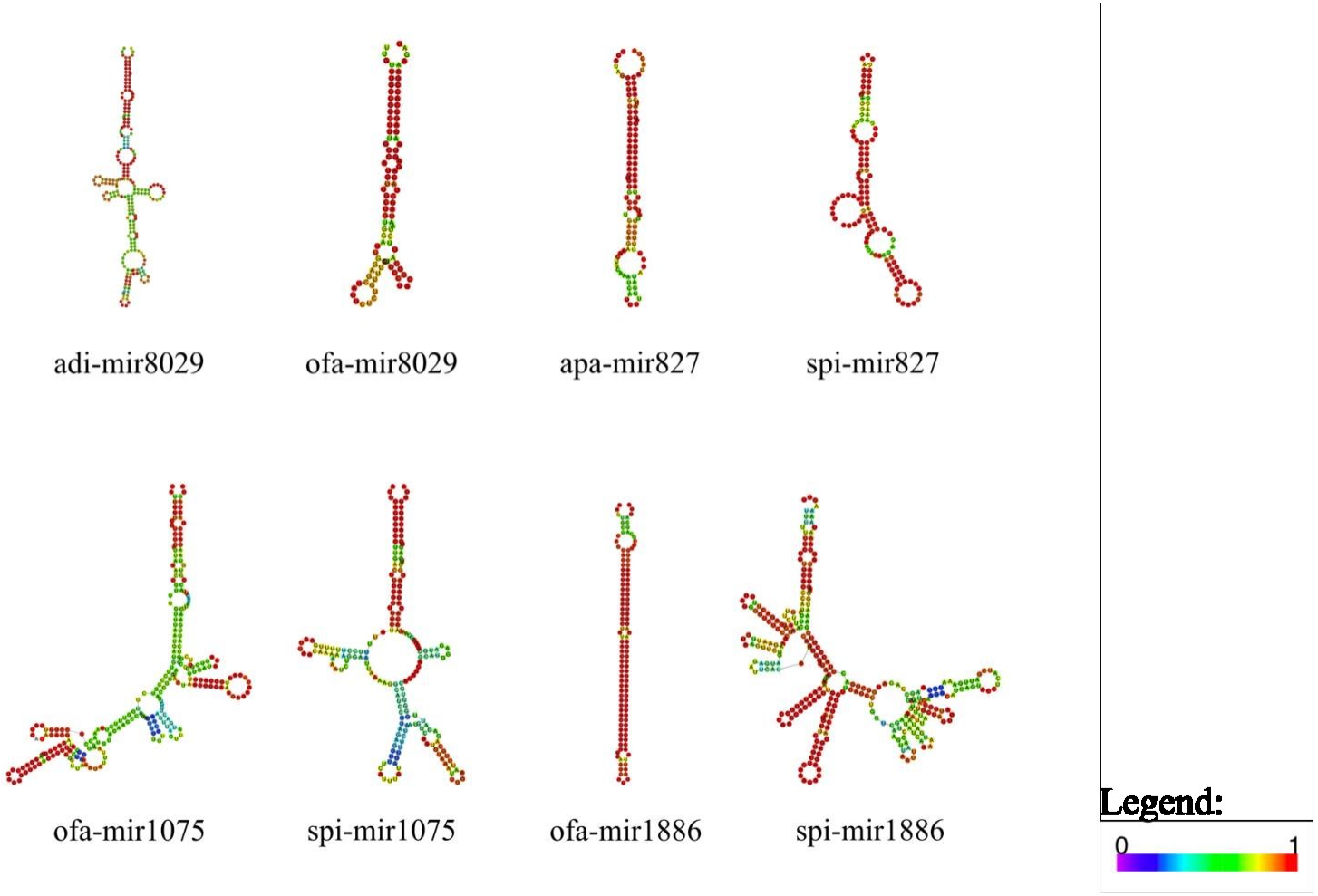


Figure 5. Alignment between miR827 of cnidarian and orthologs

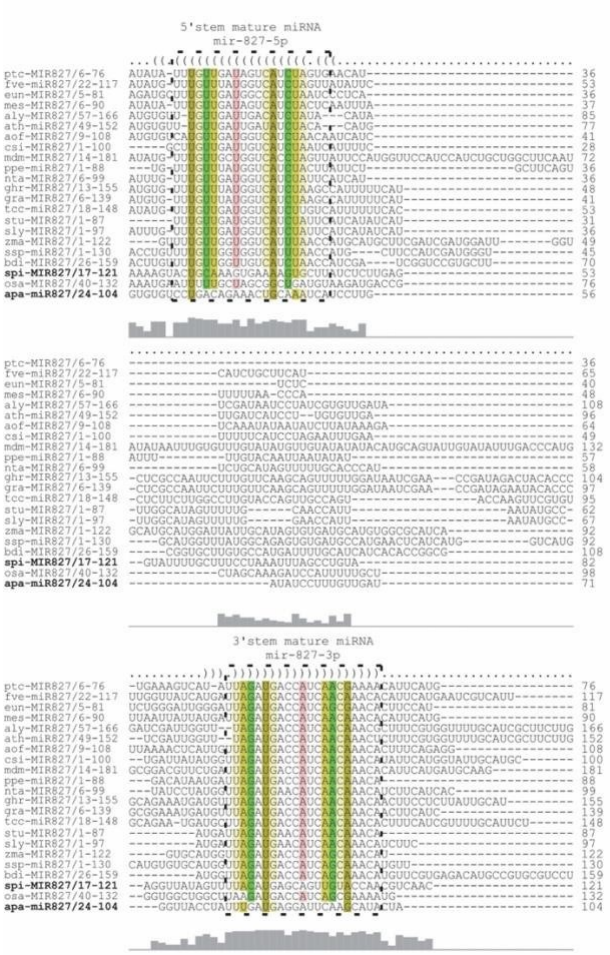


Figure 6. Phylogenetic analysis of the miR827

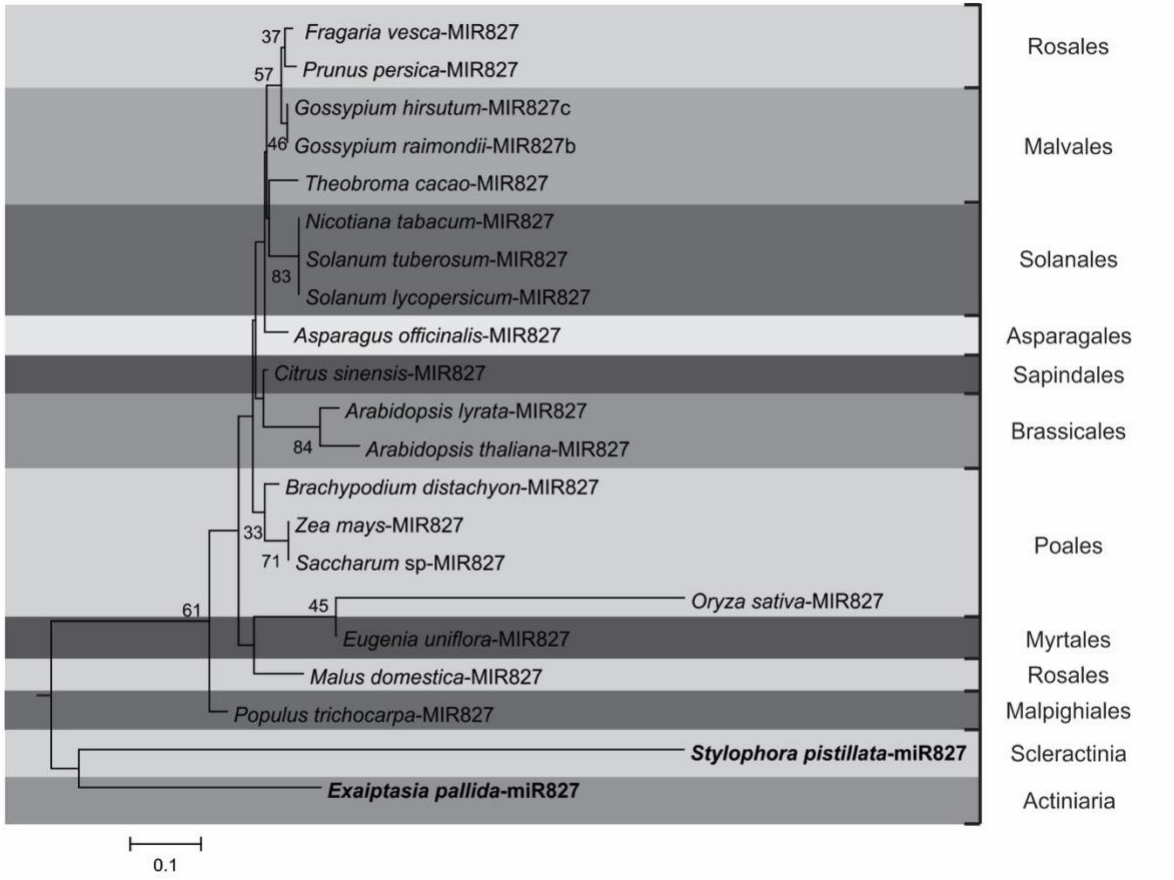


Figure 7. Alignment between mir1075 of cnidarian and the ortholog *P. patens*

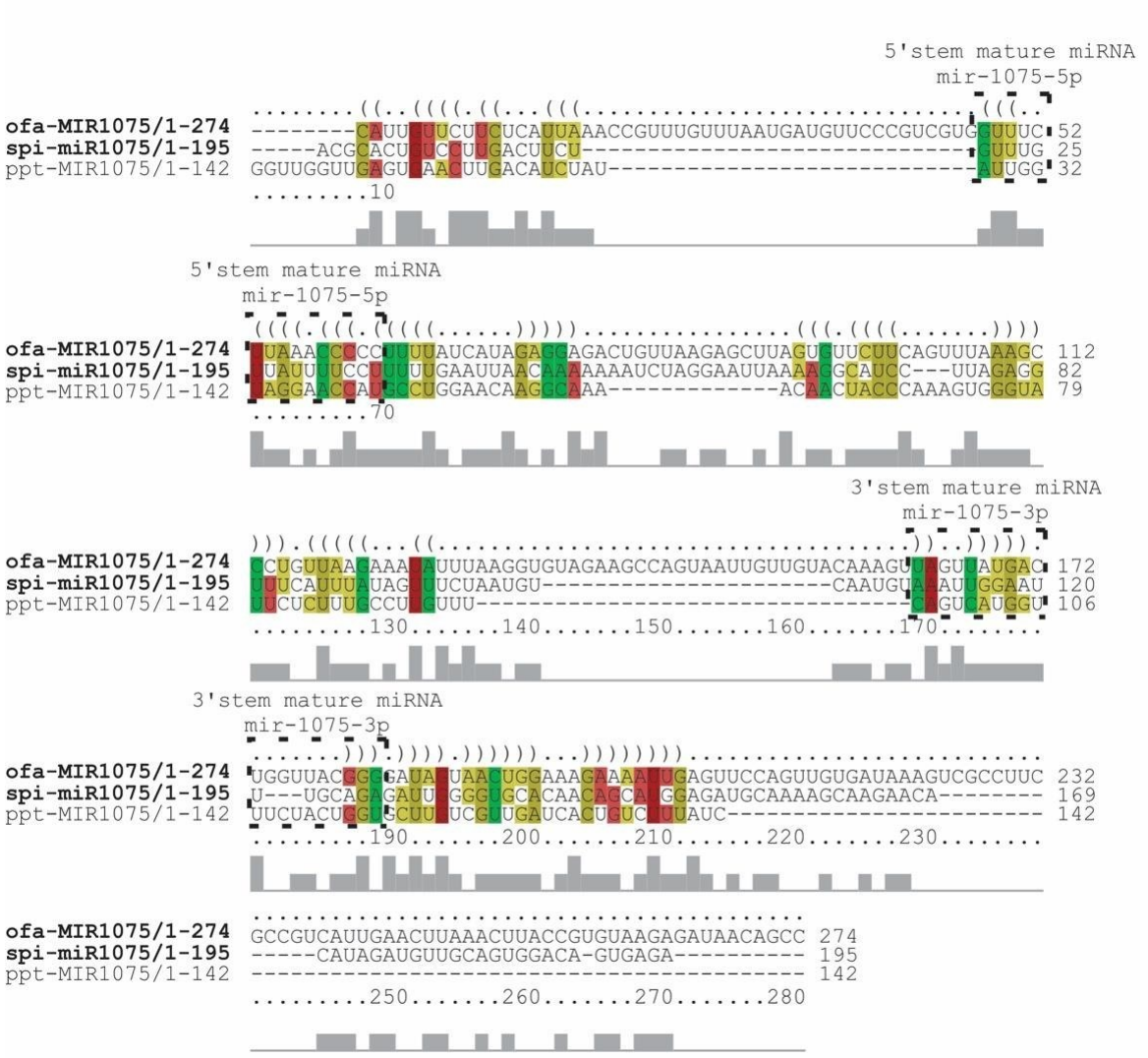


Figure 8. Alignment between mir1886 of cnidarian and the orthologs *A. thaliana* and *S. tuberosum*

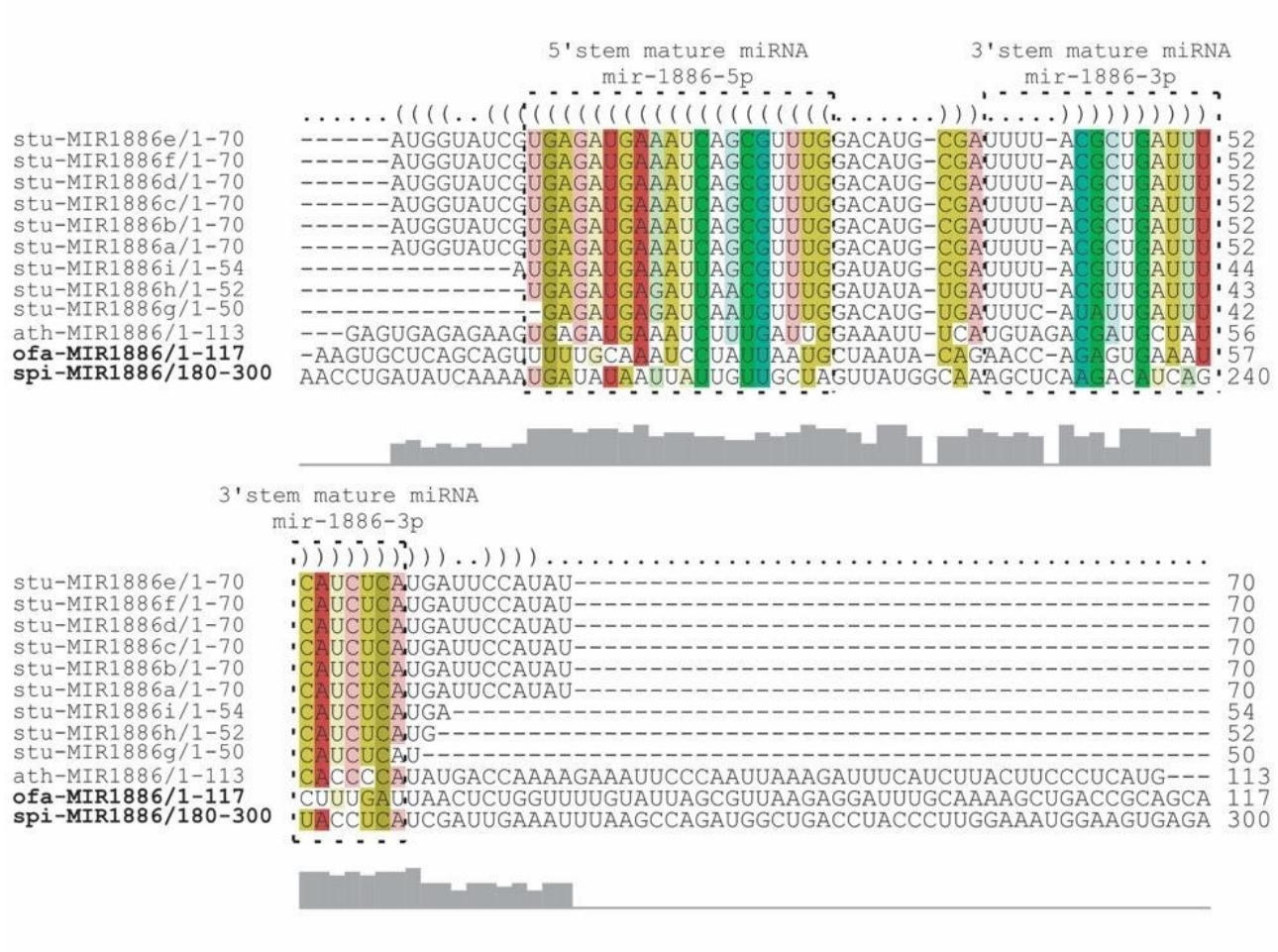


Figure 9. Phylogenetic analysis of the mir1886

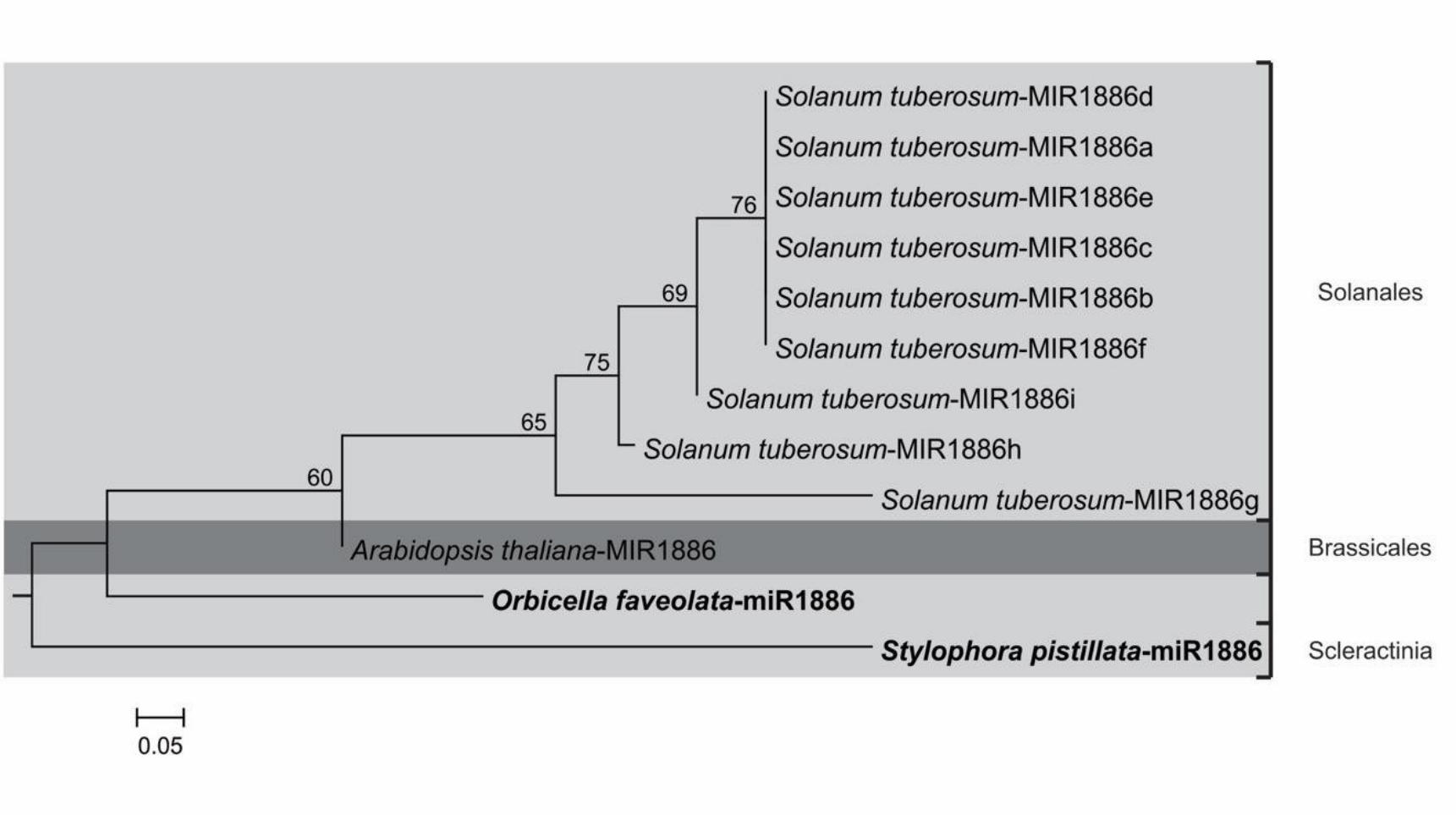
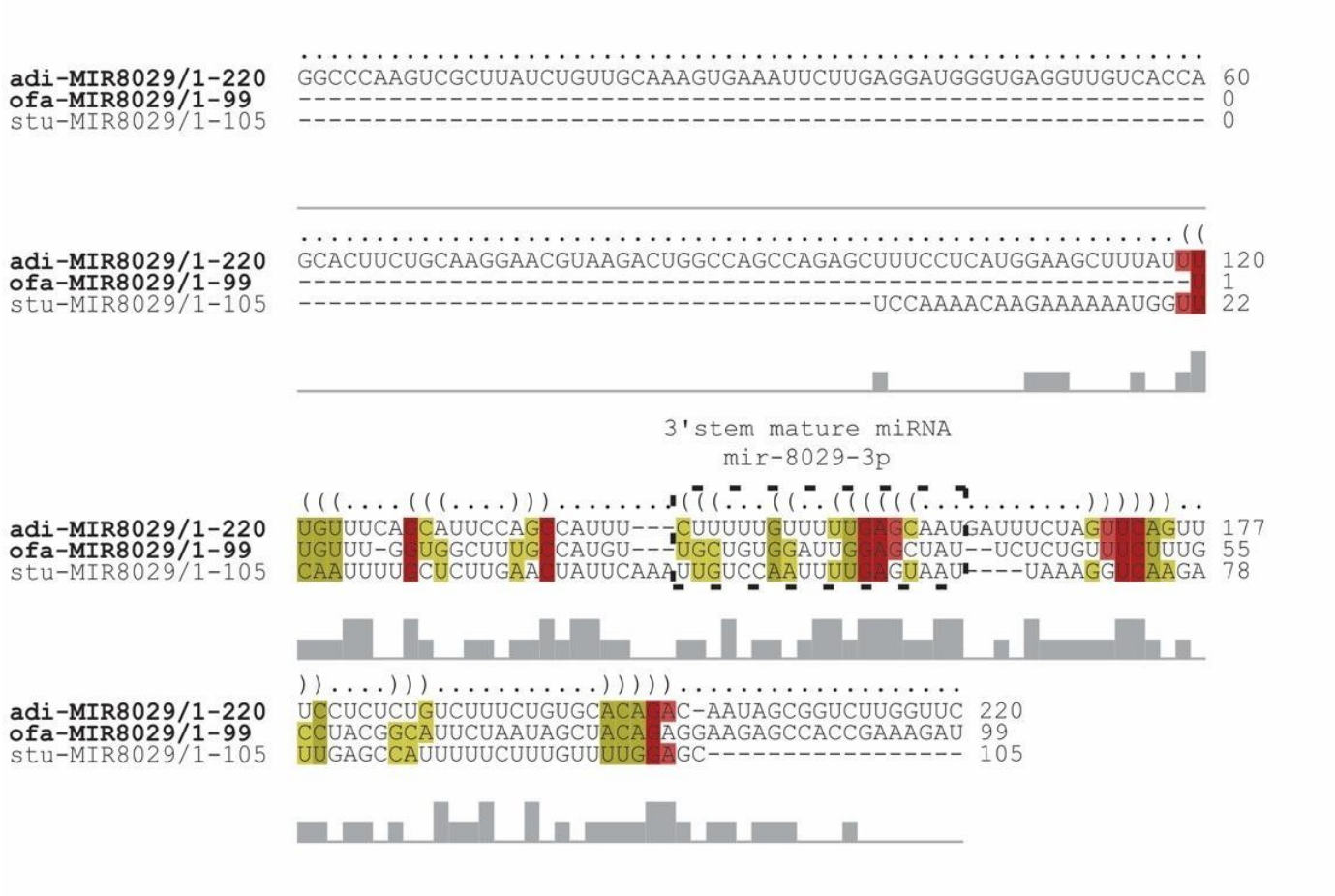


Figure 10. Alignment between mir8029 of cnidarian and the ortholog *S. tuberosum*



MATERIAL SUPLEMENTAR

premiRNA	Seqeence	Len	G	A	C	U	GC	AU	UA-ratio	GC-ratio	MFE	MFEE	frequency	Div	AMFE	MFEI
>adi_animal-miR-2284a	CAAAGGGAAAAGCAGGAAAA GUUCGUUGGGGUCGGCGUCA CUAAAUUACAAUCAACAGCU CAAAGAUCUUUUUCUCUCUG UCCCUCGA	89	21,3483146	30,3370787	22,4719101	24,7191011	43,8202247	55,0561798	0,81481481	0,95	-19,8	-19,5	0,137148	5,52	-22,247191	-0,5076923
>adi_animal-miR-520b	GAAACCUCAGGGUCUGCAUA ACUGAGGAGAAAGUGCUUCC UUGUAAUAAUUUCAUCAGCA CAUGGCUCCUCGGAUAAGGA CCAUAGCAGGUGGU	95	25,2631579	28,4210526	21,0526316	24,2105263	46,3157895	52,6315789	0,85185185	1,2	-28,9	-28,4	0,0879388	4,5	-30,421053	-0,6568182
>adi_animal-miR-30f	UCACUGUGACACCGAGGCUG UAAACAUCCUCCCCAAUUGAG GAGUCAUCUAUGGGGGGAUG AACCUUGGUGAAUCGACAGC AU	84	26,1904762	26,1904762	23,8095238	22,6190476	50	48,8095238	0,86363636	1,1	-31,6	-31,6	0,194203	7,62	-37,619048	-0,752381
>adi_animal-miR-7431	AAAUCCCUAGUUACAACGAU UGAGGAUUUUGGUAACCACU UCCUGGAAGAAAGUGAAGAC CUCAUCGUUCUGGACACUAA GGAAAU	87	20,6896552	33,3333333	19,5402299	25,2873563	40,2298851	58,6206897	0,75862069	1,05882353	-19,4	-15,8	0,0265367	15,85	-22,298851	-0,5542857
>adi_animal-miR-556	GAAACCAAAUAUGAUACCUU AGAUGAGCUCAUUGUAAAGU UGUCAGGGAUUUUUCCAGGA AACAUGGUAUCUAAGGUGUC CUUUAUUUUGUCAU	95	20	29,4736842	14,7368421	34,7368421	34,7368421	64,2105263	1,17857143	1,35714286	-23,8	-20,7	0,0647314	11,59	-25,052632	-0,7212121
>adi_animal-miR-3775	CUUUAGGAUGCGCCCCCCCU CCCCAUCUCCACAGGAGCACG GACUUGACUCCAAGACGUCA UCUGAGGCGGAUGAGGAGGA GGAGCCCAGCCCUAGAA	100	27	23	34	15	61	38	0,65217391	0,79411765	-39,7	-33,1	0,0870466	7,57	-39,7	-0,6508197
>adi_animal-miR-7179	UUUGACGCAUGCUUCAGGAA CUUUGUCACACCAUUCCAUAC CAACUGCUAUUUCAUUCGGA CGAGUGUUCAAAGGCUCAGC UUGAGAGCAUGCUCUAG	99	20,2020202	24,2424242	25,2525253	29,2929293	45,4545455	53,5353535	1,20833333	0,8	-25	-25	0,216582	4,48	-25,252525	-0,5555556
>adi_animal-miR-10690	CAAGAAUGAAAAUGUCAACU CAAGUUAUCUAUUUGAGAAA AUUCCUGAGGGUGAUUACGC UGUGCAGCGUGACUUGAGUA UGGAAUCUGAUUCAAA	97	22,6804124	32,9896907	14,4329897	28,8659794	37,1134021	61,8556701	0,875	1,57142857	-20	-16,3	0,0501736	18,2	-20,618557	-0,5555556
>adi_animal-miR-743a	AGCAAGAAAGACACCAAGCU GAAAAUGCUUUUUUACUUAA GAGUGGCCAUUACAUUAAAA GCCACUAAGCACUUAUGUCCU GUGGUGUUGUUUAUUACG	100	19	32	18	30	37	62	0,9375	1,05555556	-19	-17,8	0,00779377	16,68	-19	-0,5135135
>adi_animal-miR-10377a	GACUGGAAGCCUCGUACGGA GCUUUCUGUUCAUCAGGAGC UGGCUGGGCGUAAAGCCAUU CCUCAAACGAGCAGUUCUGU AAGCAAGCAUUCCAAGG	98	27,5510204	24,4897959	24,4897959	22,4489796	52,0408163	46,9387755	0,91666667	1,125	-33,1	-29,8	0,101323	9,96	-33,77551	-0,6490196
>adi_animal-miR-205	CUAAAUAUGAUACCUGUGAA GUGAUACGAUCUCAUUUCAG UGGAGUGAAAUGAUAUCGUA UCACGUCAGGUCUUAAUUGU C	82	20,7317073	29,2682927	15,8536585	32,9268293	36,5853659	62,195122	1,125	1,30769231	-31,7	-31,7	0,28591	4,05	-38,658537	-1,0566667
>adi_animal-miR-143-2	GUGGCAAAAGUAAGACCUGA AUGGGACUGCAACUCUGACC UAAGUGCAAUGCUGGUGCAG	100	24	23	23	29	47	52	1,26086957	1,04347826	-23,6	-11,3	0,00751732	23,71	-23,6	-0,5021277

	UGCUUUACCAGUUGAGCUAU CAGUCUUUUCCUUUGCUCC															
>adi_animal-miR-1187-1	CAGAAGUUAUUUUGUGUGUG UAUGUGUGUGUGUGUGUGUG UACGUGCGUGUCUGUGUUUG GCAAACCACAGCAACACGAGA UAAUUGAC	90	30	21,1111111	13,3333333	34,4444444	43,3333333	55,5555556	1,63157895	2,25	-21,6	-12,99	0,0208613	25,39	-24	-0,5538462
>adi_animal-miR-2562	AGGACAUUUUAACAUCUUCA CUUGCCCCCUGGGAGGGAUCU UGACCAAUUAUUUUGUCACA GGGGUGGGAAAUUGAAUUUU UUAAAAGUAAA	93	21,5053763	29,0322581	16,1290323	32,2580645	37,6344086	61,2903226	1,11111111	1,33333333	-19,3	-12,3	0,0253555	18,07	-20,752688	-0,5514286
>adi_animal-miR-2284aa	AGUUGUUGGCAUAAAAAAAG UUUGUUUGGUGUGCAACACG AAACGAACUUUUUAUGAUCA ACACCA	67	19,4029851	34,3283582	14,9253731	29,8507463	34,3283582	64,1791045	0,86956522	1,3	-25,1	-24,2	0,0661908	5,11	-37,462687	-1,0913043
>adi_animal-miR-34d	UCUUUUAGGAGCCACCAAAU AAAAAUAAAGUCUUGAACCA ACAGAACCAAAGUGUGUGUU GUUCAACAUUAGAUUGGCAG UGUGCGCCUAAAUCA	96	18,75	35,4166667	18,75	26,0416667	37,5	61,4583333	0,73529412	1	-19	-16,7	0,0276603	13,66	-19,791667	-0,5277778
>adi_animal-miR-505	AUUAUCAACACUUCUUGUUG AAGAGAAGGAAAAUUAGUCA CACUGAGAAUGUUUGAGUAA UUUACCUUUUUUGCACAAUU AAGUUGAUGUU	92	17,3913043	32,6086957	11,9565217	36,9565217	29,3478261	69,5652174	1,13333333	1,45454545	-24	-24	0,0791354	5,71	-26,086957	-0,8888889
>adi_animal-miR-1339	GACACUCUAUGACACGUUUA CAAAUGCAACGUUCAGUGAA AACUCAUUUUGCAUUUGUAU UUUGCAUGAGAGUUUU	77	16,8831169	28,5714286	16,8831169	36,3636364	33,7662338	64,9350649	1,27272727	1	-21,2	-17,9	0,124511	8,49	-27,532468	-0,8153846
>adi_animal-miR-1600	UUCAAAUGGGCUGACAACAG AGCAAAAUAAUAUUGAUCUU GAGUAAGACCUCAACCUUGC AAAUUGUUUUGUUUUAUGCU GACUCAUUUUGC	93	17,2043011	30,1075269	17,2043011	34,4086022	34,4086022	64,516129	1,14285714	1	-19,9	-18,8	0,0775189	6,74	-21,397849	-0,621875
>adi_animal-miR-5320	UAAUUGCUAGGUAAUGGGAG AAAACCGCCUUUGAAAGAGA CAUUAGACGCUAGAUACUCA UCUGGAAGGAUCGUUUUUCA CCGUUGCCAGGCAACCA	98	23,4693878	30,6122449	20,4081633	24,4897959	43,877551	55,1020408	0,8	1,15	-29,8	-29,7	0,144176	11,99	-30,408163	-0,6930233
>adi_animal-miR-8274	CAGUACUGCCCAAAAAUAAG UGAACUAUGAACCAGUCAUU UCAAACUUGUCAUGAACUCA UUUUCAUCUAUUUUAAUGGC AGUAAGC	88	13,6363636	34,0909091	20,4545455	30,6818182	34,0909091	64,7727273	0,9	0,66666667	-21	-21	0,245495	4,36	-23,863636	-0,7
>adi_animal-miR-196a	CAAUGAAACAAACCGCUGGCC UUCGUUUUCUUCUUCUUACG ACAGCAGAAAACUGCUGGCU AUAUAAGACAAUCGCUGCCA ACGAAUAGUUUCACUU	98	16,3265306	29,5918367	25,5102041	27,5510204	41,8367347	57,1428571	0,93103448	0,64	-22,6	-21,4	0,113949	8,64	-23,061224	-0,5512195
>adi_animal-miR-190	ACUCAAGUGAGGGUAGACUC UAGUAACAAACAUUUCUAUA AAAAAAAUUGUUUAGUUGAU UAAUCUUUCUGCAUCUCACU UGCGA	86	15,1162791	33,7209302	16,2790698	33,7209302	31,3953488	67,4418605	1	0,92857143	-20,4	-19,8	0,162219	5,79	-23,72093	-0,7555556
>adi_animal-miR-8119-2	UUACCCUCUCCACCCCCUCA UCAAUGUUGCUAGUAUGCAA GAUCAUAGUCAAGUCUUCAA GUAACAACAUUGCAUAGAGG AGAGGGAGCUAGAGGGGGU	101	22,7722772	28,7128713	23,7623762	23,7623762	46,5346535	52,4752475	0,82758621	0,95833333	-34,7	-32,3	0,169742	9,19	-34,356436	-0,7382979
>adi_animal-miR-8533	CCCUGGUGAAGAACUUUGCA GGAUCUUUAAAGAUCUUCUA GAGGAUCUUGGUGAGGAUCU UUGCAAGGAUCCUCAACAAA G	82	24,3902439	28,0487805	18,2926829	28,0487805	42,6829268	56,097561	1	1,33333333	-29,3	-29,3	0,0527904	7,77	-35,731707	-0,8371429

>adi_animal-miR-506	ACAGAAUGCUCCAAAUUCGA GAAUCAUUGACUGCCACUUCC AUUACUGAUUCUCAGAGUAC UCAGGAAGGCAUUCAUU	79	16,4556962	30,3797468	24,0506329	27,8481013	40,5063291	58,2278481	0,91666667	0,68421053	-20,1	-20,1	0,27109	3,49	-25,443038	-0,628125
>adi_animal-miR-10272	AAUUAUAUUGCUUUACCAUU CUCAAUUUUUGAGCGGCUGU UGAACUACACCAAUCAAUGA AUGAAAUUGGUAUAGUAUUC AUACUA	87	13,7931034	32,183908	16,091954	36,7816092	29,8850575	68,9655172	1,14285714	0,85714286	-18,6	-18,6	0,237214	4,86	-21,37931	-0,7153846
>adi_animal-miR-548aw	UAUUGAUGUUUUUCUCCAUC AAGUCAUUCACUAAUGUAAU GUUUGGUGAUGACGUUGUGC AAAAGUCAUCACGC	75	18,6666667	25,3333333	17,3333333	37,3333333	36	62,6666667	1,47368421	1,07692308	-19,1	-11,1	0,0865901	10,68	-25,466667	-0,7074074
>adi_animal-miR-1903	UUACCUUCUUCUUCUUCCUGU GGAUCUGGGUGAAGAAUUUG GCAGUCCGAGAGAGCUCUGA ACAUGGUAUCCACUGAAAAC AAGAAAAGGCAG	94	24,4680851	27,6595745	20,212766	26,5957447	44,6808511	54,2553191	0,96153846	1,21052632	-21,4	-19	0,0875895	9,35	-22,765957	-0,5095238
>adi_animal-miR-4460	AGUGUCACAAUGUCAGCUAU CAAUUGUUCAGCCGGACUGG CCGUAGUGGUUGUGAAUUUG GACAUUGCAGUUGCUGAAAU UGUACUGC	89	26,9662921	22,4719101	17,9775281	31,4606742	44,9438202	53,9325843	1,4	1,5	-21,7	-18,4	0,0107496	30,51	-24,382022	-0,5425
>adi_animal-miR-283	UGGCUGUUUAGCCAGCAGCA UCAAUCUUGACUUCAUUAUA ACCAACUUGAUCAUUUCAGG GAACUGCAUGAAUUAAAUAU CAGCUGGUAACAGUCC	97	17,5257732	29,8969072	21,6494845	29,8969072	39,1752577	59,7938144	1	0,80952381	-22,6	-11,57	0,0709484	19,77	-23,298969	-0,5947368
>adi_animal-miR-6062	CUGGCGAAUAAAUUUUCCUG GAGAAUUUCAGGGUUAUCUU UGUUACGAUAUUGGUAUUUU AUAAUUUUCCAGAUUUCCAC GGGAAAUUUAAUUGCUAU	99	18,1818182	26,2626263	13,1313131	41,4141414	31,3131313	67,6767677	1,57692308	1,38461538	-25,6	-20,6	0,0351918	21,34	-25,858586	-0,8258065
>adi_animal-miR-8218a	AUCGAUACAGAGGACUUGCC ACAAAAGACGCAAGAUGCAC AACAAAACACUCAGACAAUG GUGACUCUUUUGUGUGGUUC UAUUGUAUCAAG	93	20,4301075	34,4086022	20,4301075	23,655914	40,8602151	58,0645161	0,6875	1	-25,7	-25,7	0,215731	4,06	-27,634409	-0,6763158
>adi_animal-miR-146a	CCCGGCGGCCAUGUUGGCAAA UCAUGCAGUGAAAUUCAGUU CUUCAAUUACCUUAGCAAAA ACUGCAGUGAUUCGUUAAAU UUGGCCCCAGU	93	20,4301075	26,8817204	23,655914	27,9569892	44,0860215	54,8387097	1,04	0,86363636	-25,87	-23,37	0,0723	6,22	-27,817204	-0,6309756
>adi_animal-miR-309	UUGUGUUAUUUUUAUUGUGU UUGCAUAUGAGCAAUGUACA UUUAAUCACUGGGUGAAGUU UCCAGUCUGUCAAUGUGAGC CAAUAACAGUUAACAUGA	99	20,2020202	27,2727273	13,1313131	38,3838384	33,3333333	65,6565657	1,40740741	1,53846154	-21,6	-21,3	0,0192815	9,56	-21,818182	-0,6545455
>adi_animal-miR-340-3	ACUCUCUAUUGCAUGAAUAU CUUUGACAAGAUAUGGAUUC CAAACUGGAGCAGCAUACUCC AGAAGUGGUCUAACCAAAGU UUUAUAAAGCAAUGAGAAA	101	17,8217822	36,6336634	17,8217822	26,7326733	35,6435644	63,3663366	0,72972973	1	-23,5	-21,4	0,0544483	13,52	-23,267327	-0,6527778
>adi_animal-miR-410	AGGAUCCAAAUCUUGCACAG CAUCUUGCUCACUUUGGCAUC AAUAUAACACAGAUGGAGAA GGUGCUGCAAGCAUUUUGCA UGAA	86	20,9302326	31,3953488	20,9302326	25,5813953	41,8604651	56,9767442	0,81481481	1	-21,6	-18,6	0,0429206	12,82	-25,116279	-0,6
>adi_animal-miR-8209	ACAAAAAGAAGAAAGAAGAA GUUUGGGAGAAGAGGAAAGA GAAGGCCUUUCCAUCCUGUCU CCCUCAAAGUUUUGCCACUUU UUUCUC	89	21,3483146	33,7078652	19,1011236	24,7191011	40,4494382	58,4269663	0,73333333	1,11764706	-25,2	-22	0,0955492	16,15	-28,314607	-0,7
>adi_animal-miR-4010	AUUAGAAAAGAGACGAGGCU UAAAGGACUAGUCUGCAAUU	101	17,8217822	31,6831683	17,8217822	31,6831683	35,6435644	63,3663366	1	1	-30,8	-30,8	0,0579223	8,38	-30,49505	-0,8555556

	UCUUUUGUACAUACAAAGGA AAAUGCAAGUUUGUCGCCAU AACCUCGACUUCUUUCUUUU															
>adi_animal-miR-8495	UGUACAGCCAAGAAACAGCU GGUGGAAAUGGGUUAAGUUC AUGAUGACUAAGCCAUUUCC UUAGCAGAGUCUUGACAUGU UUC	84	23,8095238	28,5714286	17,8571429	28,5714286	41,6666667	57,1428571	1	1,33333333	-26,7	-26,7	0,123833	5,51	-31,785714	-0,7628571
>adi_animal-miR-7398b	UUCGUUCCUCUUGAAAUAAU UGCACACCACGUAAAACAAA UGCUGCGUGGCACACACAUUC UUGUGUAGAGAUGGGAAUAG UUUCGAAAGAAACUGU	98	20,4081633	31,6326531	19,3877551	27,5510204	39,7959184	59,1836735	0,87096774	1,05263158	-24,4	-24,4	0,115211	16,81	-24,897959	-0,625641
>adi_animal-miR-59	AAAGAAAUCAAGCCUGAAGU UUCGAGCCUUUGCCGUUCUUC AUAGCGAAAAAGGAAGGGCA AACGAUCGAAUCGUCAUCUU UGUUAUCCGU	92	21,7391304	30,4347826	20,6521739	26,0869565	42,3913043	56,5217391	0,85714286	1,05263158	-21,8	-21,8	0,13175	7,67	-23,695652	-0,5589744
>adi_animal-miR-7-2	AGCAUAAGUAGUUUGUCAAC AAUAAAUUAUGAAAUGCAAG CAAGAAGCAACAAUCACAAA UCUUGUUGCUGCUUAAACUA CCUAUCAA	89	13,4831461	41,5730337	17,9775281	25,8426966	31,4606742	67,4157303	0,62162162	0,75	-18,8	-18,8	0,181415	5,14	-21,123596	-0,6714286
>adi_animal-miR-11653	UCAUUUGUACACCUUAAUAU GGACAAACUCCAAUGCGAAA UUUGUUGAGCCAAUGUGAAC AUUUGUAUGAAAAGUUUGCC UAUUACAUUGGUCAAAUCA	100	16	33	17	33	33	66	1	0,94117647	-21,2	-20,5	0,200264	5,19	-21,2	-0,6424242
>adi_animal-miR-4025	CACCGUGUCCGUGGUGUAUG UGUUUGGUGAAAAAACCUAU AAGCAAAACAUCUAUCCAUG GAAACGCAC	70	21,4285714	31,4285714	21,4285714	24,2857143	42,8571429	55,7142857	0,77272727	1	-19,7	-19,7	0,245132	11,31	-28,142857	-0,6566667
>adi_animal-miR-669	GACUUUUGAUGACAGGUGUG UUUGUGUGCAUGUGCUUGAA AUCAGUGUUAUUGUGUUUUG UUUGCAAAUGCAAAAGCAUU GCUAUCACAAAACAA	96	22,9166667	27,0833333	12,5	36,4583333	35,4166667	63,5416667	1,34615385	1,83333333	-25	-25	0,103036	5,1	-26,041667	-0,7352941
>adi_animal-miR-1267	UAGAAAGCUGACUUUUCUGU UGAAAUGUAAUGCCUUGGCG ACGCUAAUAUCAUCCUUAGU CCUUGUCACGGUCACCAAAAA AUGUCAACUUUUGA	96	17,7083333	28,125	20,8333333	32,2916667	38,5416667	60,4166667	1,14814815	0,85	-18,8	-18,8	0,139965	9,7	-19,583333	-0,5081081
>adi_animal-miR-2036	AUGAAGAAAUUUUGUCUCUA AAGGCGGUGAAAGUCGUUUC AAUACACAUUUGAUGUAUAU UGUACGACUCUCAUCGUGUU UGAGGCAAUUACUUGAA	98	20,4081633	29,5918367	14,2857143	34,6938776	34,6938776	64,2857143	1,17241379	1,42857143	-35,2	-34,9	0,127273	5,11	-35,918367	-1,0352941
>adi_animal-miR-991	ACGACAUCAACAAGCAAACCG UACAGUUUUGAUAUAUUGGU GCAUUAUUUUGUAAUUGUUU CUAUAUUAAAGUUGUAGUUU GUGUUUGGUGAUAGUUAA	100	19	29	10	41	29	70	1,4137931	1,9	-23,2	-20,8	0,0421345	15,82	-23,2	-0,8
>adi_animal-miR-239b	AGCCCGCGGAGGUAUUCUA UACCCGCUCUUUACGGACUCA UUGCAUUUGUACUACACAAA AAAUGACGCGAUUUUGAGAU UAGCCUCCGCGGAUC	97	20,6185567	24,742268	25,7731959	27,8350515	46,3917526	52,5773196	1,125	0,8	-29,1	-28,5	0,0797794	13,53	-30	-0,6466667
>adi_animal-miR-1298	UUUACCUCUUCGCACUCAUUU UGCCAACCCGUUCAUCUGGGC AACUGAUGACCAACUGGCAA AAGUGAGAUUUGAAGGAGCG UGGA	87	22,9885057	25,2873563	24,137931	26,4367816	47,1264368	51,7241379	1,04545455	0,95238095	-25,7	-25,7	0,00400147	10,07	-29,54023	-0,6268293
>adi_animal-miR-6372	AGAGUAAGUUCAUCCAUUCU AUUAUUCUGAUUGAGUAUAA GUUUAACUGUCUCAUUGGGA	89	19,1011236	31,4606742	16,8539326	31,4606742	35,9550562	62,9213483	1	1,13333333	-19,8	-18	0,0562348	8,94	-22,247191	-0,61875

	AUCAACAGAACUGGGGAAAC UUCACCAG															
>adi_animal-miR-10778	AACGCAUUACUCAAUUCCAGC UGCAUCCUGCCCCCCACCCC ACCCCCCGGGAGGCAACUGCA GGGCAUUGACUAAUGCAUG	83	19,2771084	22,8915663	39,7590361	16,8674699	59,0361446	39,7590361	0,73684211	0,48484848	-29,3	-29,3	0,38525	4,14	-35,301205	-0,5979592
>adi_animal-miR-133b	CGAGUCUCCGUUCCUUACUGC GCAUGCUGGCUUGACGAAAC AAGCGAGGGUCGUUCGUUUC CGACCGCUGGUCAAAGGGAA CGAAGACGCU	92	29,3478261	20,6521739	27,173913	21,7391304	56,5217391	42,3913043	1,05263158	1,08	-33,8	-31,1	0,243892	11,72	-36,73913	-0,65
>adi_animal-miR-2155	AACGAUUGCAAAUAAGGUCA GCUAAAGCAUUGGCGUCAGG CAAGGUCACUGCUUCCGUUG GAACCAAUGCAAAACUGACA CUGUUUUACACUCCGU	97	21,6494845	29,8969072	23,7113402	23,7113402	45,3608247	53,6082474	0,79310345	0,91304348	-23,6	-17,1	0,0230154	14,33	-24,329897	-0,5363636
>adi_animal-miR-8200	GCUGAAGUAAAUGCCAGCAG AUGGCACCAUGUUUGCGUUG UGUGGUCGACAUCUGACGGG AGAUUUGAGUUCUUC	76	30,2631579	21,0526316	18,4210526	28,9473684	48,6842105	50	1,375	1,64285714	-18,9	-18,8	0,224006	7,28	-24,868421	-0,5108108
>adi_animal-miR-7111	GUGCUUCCAAAUGAUAGCCU AUCUCCACCUCCAAAGAACUU UUCAGUUUUUUGUCCCCUGG GGUGGGGGAGGAAGGACAGG CCUUCAUGAGGGAAGUCA	100	27	23	23	26	50	49	1,13043478	1,17391304	-39,4	-37,7	0,166426	7,52	-39,4	-0,788
>adi_animal-miR-340-2	UUUAAAUGACACACAGUAAC UUCCGGGUCUGUUCGGUACA GACGCGGAAAUCAGUUUCAU UUCAU	66	19,6969697	27,2727273	21,2121212	30,3030303	40,9090909	57,5757576	1,11111111	0,92857143	-19,5	-19,3	0,175315	5,48	-29,545455	-0,7222222
>adi_animal-miR-9b	AACUUGUGCUCUUUACGUUC UUUGGUGGUCUAGCGUCCUU CAGGAGGCUAGACCACUGAA GCCCAACAUAACAAAGGAAC AACAA	86	20,9302326	29,0697674	24,4186047	24,4186047	45,3488372	53,4883721	0,84	0,85714286	-32,7	-28,3	0,0341228	13,64	-38,023256	-0,8384615
>adi_animal-miR-669e	UACACAGGAACUGAAUUCAG AGGUGCGAUCGACGGUGUCA AAGCUAGAAAAGAAAAUUCA AAUUCGCACUUGUGUGUGCA UGUUCUCUGUAAA	94	23,4042553	32,9787234	17,0212766	25,5319149	40,4255319	58,5106383	0,77419355	1,375	-23,1	-22,94	0,0335299	9,52	-24,574468	-0,6078947
>adi_animal-miR-9303	CUGAAGAUCUUUGAAGAUCU UUUCAAGAUCUGUGAAGGAU CCUGUGAAGAUACUGGUCUU UAAAGAUCUUUGU	74	21,6216216	27,027027	13,5135135	36,4864865	35,1351351	63,5135135	1,35	1,6	-28,4	-28,4	0,360729	4,61	-38,378378	-1,0923077
>adi_animal-miR-2475	UGGUUAAAACGAAGGUUGAA GUGUGUGAAACUGCCAUCCA GGAUCACACUCUUCAAACUU GGUUUCAAAAC	72	20,8333333	31,9444444	19,4444444	26,3888889	40,2777778	58,3333333	0,82608696	1,07142857	-26,3	-26,3	0,257854	2,69	-36,527778	-0,9068966
>adi_animal-miR-2703	AAACUGAUCAACACUUUGCU UUGAUUUGUAAGUUGUAUUG UCACAACCCGAGUUAUCAUGC AGACUUAAAUCAAAAGUGCA UUGUUGUUUAGCAC	96	16,6666667	30,2083333	17,7083333	34,375	34,375	64,5833333	1,13793103	0,94117647	-20,2	-18,8	0,0181689	13,53	-21,041667	-0,6121212
>adi_animal-miR-6119	UCAAGAGGUAAAAAUUUGAU CAUAGUAGCACUUUAAAAGC AGACUGUAGAUGUCUAUACU GCGGUGAACUAGAUUCCAUA AAUCAUACCUCUAUU	96	16,6666667	35,4166667	16,6666667	30,2083333	33,3333333	65,625	0,85294118	1	-21,4	-18,9	0,150153	6,21	-22,291667	-0,66875
>adi_animal-miR-466b	UUCGUAAUGUAGAGUGUAGU GGUACCCACUUAGGUUGUUU AAGAAAAAGACUGCUACAAC AUACAUACACACACACAUCUA UAUAUACAUA	92	15,2173913	36,9565217	18,4782609	28,2608696	33,6956522	65,2173913	0,76470588	0,82352941	-19,4	-19,4	0,271654	11,92	-21,086957	-0,6258065
>adi_animal-miR-26	GGAUGUUAAAAUCCAUCCAG GAUUUAGCCUGGCUGACGUA UGAGCAGGGCAGUUAAGACC	86	24,4186047	27,9069767	19,7674419	26,744186	44,1860465	54,6511628	0,95833333	1,23529412	-24,6	-23,6	0,147294	8,52	-28,604651	-0,6473684

	UAUCCUUGAUUGCUUUAAAA CAGCG															
>adi_animal-miR-4700	UAAACAGAGCAGAACUCUAC UCAUGAGUUUGCUUACCAUC CUCGUGUGUAACAACAGCUU UUGCAUUUCUUAACACAGGA CUGACUCCUGCUCGUGUGAA	101	17,8217822	26,7326733	24,7524752	29,7029703	42,5742574	56,4356436	1,11111111	0,72	-24,1	-21,5	0,0832701	13,94	-23,861386	-0,5604651
>adi_animal-miR-3396	UCCAGUUUCUAUUUCACGUG AAAUUCAAUUCAGAACAUCA CGGCGGCAUGGCUAAAGCCG GGAAUUGAAGUCAGGUCAUA GGCAACUACG	91	23,0769231	29,6703297	21,978022	24,1758242	45,0549451	53,8461538	0,81481481	1,05	-21,9	-21,5	0,113852	4,73	-24,065934	-0,5341463
>adi_animal-miR-2022-2	UUUUCUGGUUAAGAAAUGGA CAAAGGCUCCAAGGAAAUGU UUAUAUUUGCUAGUUGCUUU UGUCCCGUUCUUAAACUAGA CGU	84	20,2380952	26,1904762	15,4761905	36,9047619	35,7142857	63,0952381	1,40909091	1,30769231	-30,9	-30	0,139436	3,89	-36,785714	-1,03
>adi_animal-miR-2022-1	UUUUCUGGUUAAGAAAUGGA CAAAGGCUCCAAGCAAAUGU UUAUCAUUUGCUAGUUGCUU UUGUCCCGUUCUUAAACUAG AUAU	85	17,6470588	27,0588235	16,4705882	37,6470588	34,1176471	64,7058824	1,39130435	1,07142857	-37,6	-36,7	0,208559	3,28	-44,235294	-1,2965517
>adi_animal-miR-10231	GCCACGGGCGAGCUGGAAAC AAAUCAAUACAACUAUUGGG UCAUUCUGAUAGUUUACCAC UAAACUAAUAGAUUUUAUUU CCAAUCACGCGUCGU	96	17,7083333	31,25	21,875	28,125	39,5833333	59,375	0,9	0,80952381	-19,8	-18,4	0,0281226	19,37	-20,625	-0,5210526
>adi_animal-miR-190b	UGUAUACUGUAUAUCAAACA UUGAACUAUAUCACGUCAAA UCAAAUCAACUUUUGAUUUG ACAUCACUUGAAUUCGUGAA CUUUGGUUUUCAGUAUCCG	100	13	31	18	37	31	68	1,19354839	0,72222222	-24,6	-24,6	0,0697152	4,4	-24,6	-0,7935484
>adi_animal-miR-466i-1	CGCAAGUGAGACUCACGCAA AACCAGUUCAAGAGAACAAC AAUUAAAGUAGAUAUGCAAC UGCAAGUGUGUGUGUGUGG UGUGAUAUCACUUAUG	97	23,7113402	34,0206186	16,4948454	24,742268	40,2061856	58,7628866	0,72727273	1,4375	-21,8	-14,12	0,0425761	18,34	-22,474227	-0,5589744
>adi_animal-miR-466i-2	CGCAAGUGAGACUCACGCAA AACCAGUUCAAGAGAACAAC AAUUAAAGAAGAUAUGCAAC UGCAAGUGUGUGUGUGUGG UGUGAUAUCACUUAUG	97	23,7113402	35,0515464	16,4948454	23,7113402	40,2061856	58,7628866	0,67647059	1,4375	-21,3	-14,12	0,0303605	17,41	-21,958763	-0,5461538
>adi_animal-miR-7390	AAAUGAUUUGUACCUAAUAC AAUUGACAGAAGGGUGAGAA AUCUCUUUUUCCUUUUUCGU UGUCAAAGGUGACAAUCAAA G	82	18,2926829	32,9268293	14,6341463	32,9268293	32,9268293	65,8536585	1	1,25	-20,1	-18,1	0,0200049	12,17	-24,512195	-0,7444444
>adi_animal-miR-7a-5	UGACAAAUUCUGUCAACAAG UCAUAGUCUUCUGGUGAGGU AUAAUUUCACAAACAGAAGG UUUGUGUAGGAGAUAACUUG GAAGGAUUUGCUG	94	24,4680851	30,8510638	12,7659574	30,8510638	37,2340426	61,7021277	1	1,91666667	-23	-21,3	0,143283	20,26	-24,468085	-0,6571429
>adi_animal-miR-4048	CUUAUAAGUUGCUAUGUUGG GAGAAUCUUGACCUCGGUCA UCGGUAAACCCAAGGCACCUU GGUCACCAUCUUCCCAGAGAA ACCUUAUUCU	93	19,3548387	24,7311828	25,8064516	29,0322581	45,1612903	53,7634409	1,17391304	0,75	-21,3	-17	0,00695883	21,53	-22,903226	-0,5071429
>adi_animal-miR-8119-1	UUACCCUCUCCACCCCCUUA UCAAUGUUGCUAGUAUGCAA GAUCAUAUUCAAGUCUUCAA GUAACAACAUUGCAUAGAGG AGAGGGAGCUAGAGGGGGU	101	21,7821782	28,7128713	22,7722772	25,7425743	44,5544554	54,4554455	0,89655172	0,95652174	-32,5	-30	0,063029	11,59	-32,178218	-0,7222222
>adi_animal-miR-1268b	CGCUCAAUUUUAUUCACGCAC ACAUGGAGAAUGUAAAGUCC CGGGCGUGGUGGUGGGGAAA	100	32	25	19	23	51	48	0,92	1,68421053	-32,1	-23,1	0,0710049	19,71	-32,1	-0,6294118

	GGGGAGUGUUCUCCCUAGUG CCCUAGUAAAAGUGAGAG															
>adi_animal-miR-6236	CACUCUGCCGUCGCCGGCAGU CAACUCUUUUCUCUGCCGUCG CUGGCAGCCAACAACUGUUCA CUCUGCCGUCGCUGGCAGACA A	86	22,0930233	16,2790698	37,2093023	23,255814	59,3023256	39,5348837	1,42857143	0,59375	-32,6	-32,6	0,116832	14,96	-37,906977	-0,6392157
>adi_animal-miR-466i-3	GUCACAGAAACUAGUGUGUG UGUGUGUGUGUGCUGCGAUG GCUGUUUUGGUCCCACACACA UGUAAAAUAGUGAUUCUGUU GG	84	29,7619048	20,2380952	15,4761905	33,3333333	45,2380952	53,5714286	1,64705882	1,92307692	-24	-21,8	0,012768	20,34	-28,571429	-0,6315789
>adi_animal-miR-9709	AAAUAGUGGUACGGAUCGGC CAAAAAGCGGGAUAAUGACC AACUUUGGAAGGUUGCGUUU UGCACUUCGCUUUUUGGGCG ACCGGCACUACGG	94	29,787234	24,4680851	20,212766	24,4680851	50	48,9361702	1	1,47368421	-38,6	-38,6	0,194767	5,43	-41,06383	-0,8212766
>adi_animal-miR-1490b	GCACUAAAUUGAUAUCGAGG UAAUAUUUGCGUUUUCAUCA GUGAUGAUGGAAAAGGCAGU GAGUUGAUAUCAAGUUAGAA A	82	24,3902439	34,1463415	9,75609756	30,4878049	34,1463415	64,6341463	0,89285714	2,5	-24,7	-24,2	0,0364205	8,43	-30,121951	-0,8821429
>adi_animal-miR-242	GAAGAGGAUGCAAAGAGCUA UGGUUACUCUAAUUUUGUGC UCUGCAAGAUUAAACGUAAC CGAGCAGCUCGGUUCAUUCCU CGAU	86	23,255814	27,9069767	19,7674419	27,9069767	43,0232558	55,8139535	1	1,17647059	-29,3	-29,3	0,195324	3,2	-34,069767	-0,7918919
>adi_animal-miR-4961	UCAUGGAGCUUUAUAUUUAA CUGUAGAUGUAAGUGUUCCA UUGAUAUGUAUAUCCAUAUC UAUAUGUACAUAAGAAAGUC CACCC	86	15,1162791	31,3953488	16,2790698	36,0465116	31,3953488	67,4418605	1,14814815	0,92857143	-20,6	-20,6	0,127129	6,22	-23,953488	-0,762963
>adi_animal-miR-11894b	CAUUACCUUUUACCAUUUCA AUAUGCCUGCUCAGAAAUGA AUAUCAUUAAUUUUGCCUGC AAUGGCUAUAAUCAAGUGAA AGGUAUAA	89	13,4831461	33,7078652	17,9775281	33,7078652	31,4606742	67,4157303	1	0,75	-19,1	-16,5	0,0593821	11,35	-21,460674	-0,6821429
>adi_animal-miR-676	GGUAUCAGGUACAGGUAUGA UGAGUCACUCUUCAACCUCAG GAAGCCUCAAACAAGGUUUC AACAGAUACCAUCAACGUCU UCCUAUUUG	91	18,6813187	29,6703297	24,1758242	26,3736264	42,8571429	56,043956	0,88888889	0,77272727	-22,6	-21	0,317593	3,03	-24,835165	-0,5794872
>adi_animal-miR-143-1	UUCAGGCCUGAACAAGAUUC AAACCUUGGCUCUUUGAUGC CGGUGCAGUGCUUUACCAGU UAAGCUAUCAGGUUUCAAAU CCUGUUUAGGCCUAAA	97	20,6185567	24,742268	22,6804124	30,9278351	43,2989691	55,6701031	1,25	0,90909091	-33,4	-29,5	0,0907334	13,95	-34,43299	-0,7952381
>adi_animal-miR-8517b	UGGUAAGCAACGAAAAGGCA UUCAAUGAUAGAGCUUGUAG UGCCGCUCUAUUUGCUAACU AUUGAACUGUUUUUGUUGUU UAUGU	86	22,0930233	25,5813953	13,9534884	37,2093023	36,0465116	62,7906977	1,45454545	1,58333333	-25,1	-22,6	0,068175	10,61	-29,186047	-0,8096774
>adi_animal-miR-6935	UUGUUUCAUGUGAAACAUGA UUGUUCUUUGUCUUUCCUUU GUAACAGGGAACAGUGUGUG GUUCUGUGCAAGCAACAGAC AGAUUAAUGAAAGAA	96	22,9166667	28,125	13,5416667	34,375	36,4583333	62,5	1,22222222	1,69230769	-21,2	-11,3	0,0189851	32,31	-22,083333	-0,6057143
>adi_animal-miR-4819	CACCUGUCACGCGUCAGUUUU GUCCAACAGAGAGAGCUGUU GUUGAUCAAACUGUUCUUCG UUGCAGAACACGGUCAGCUU GGCCAGAGA	91	25,2747253	23,0769231	24,1758242	26,3736264	49,4505495	49,4505495	1,14285714	1,04545455	-25,6	-25,6	0,41809	4,77	-28,131868	-0,5688889
>adi_animal-miR-433	AGCGCAAACGAUAUUGCAAU GUGCAGGAGCCGAUCAUGAU	74	28,3783784	25,6756757	21,6216216	22,972973	50	48,6486486	0,89473684	1,3125	-33	-33	0,362221	5,78	-44,594595	-0,8918919

	GGGCUCCUGCAAUGCGGCAA UGCAUUUUGCUGA															
>adi_animal-miR-2498b	CACGCAUAACGGAUUUUGGC AAAAUCAACAAGAAGCCCUG UUUAAUGCGUGUCUUGUUCU AAUGGUUGGUUGUAUUUUAA GAAAAAGUCUGUUAUGCAGG	101	22,7722772	28,7128713	14,8514851	32,6732673	37,6237624	61,3861386	1,13793103	1,53333333	-24,8	-19,6	0,0648638	20,75	-24,554455	-0,6526316
>adi_animal-miR-7230	CCAUCUCGACUUGCAGUCACA GCAAGAUGACCCAGACUGCU GUUUCUCUGCUGUGGCUGGA AAUGAAGAGCU	73	24,6575342	23,2876712	26,0273973	24,6575342	50,6849315	47,9452055	1,05882353	0,94736842	-26,2	-24,6	0,116549	6,94	-35,890411	-0,7081081
>adi_animal-miR-46	AUUAUCUUCUGGGACGUAAA UGUCAUGGAGUUGCUACAAC ACUGGGUCCCGCUCUGUAUCU UUAAUAUUCACCCAGACAUA CGGUAACCAGAAAUGAA	99	19,1919192	29,2929293	22,2222222	28,2828283	41,4141414	57,5757576	0,96551724	0,86363636	-21,4	-20,3	0,0625454	12,89	-21,616162	-0,5219512
>adi_animal-miR-8315	GAUGUGUUACAGUUUCCUCC AUACCAGUCUGGAUGACAAA UUCUUCGUCCAGAAUGUGGA UUGCAUGUGAAAUGACCACC AC	83	20,4819277	26,5060241	22,8915663	28,9156627	43,373494	55,4216867	1,09090909	0,89473684	-20,9	-20,6	0,0637742	8,33	-25,180723	-0,5805556
>adi_animal-miR-1187-2	AUGUGCCAUGUACUCACUUA GGCAAACUAAACAGCAGGUA UGUGUGUGUGUAUGAUUGCC GUUAUGAGUCAGGCAUCU	79	25,3164557	25,3164557	17,721519	30,3797468	43,0379747	55,6962025	1,2	1,42857143	-24,1	-18,9	0,124827	9,42	-30,506329	-0,7088235
>adi_animal-miR-7880u	UAUUUUGCGACCAUUCCAGC UUGUUCGUAGUGUGUAUAAU UAAAUUAAUGGAUUUACUUA CUUAUGACUAUCCUACAACU GGCGGUUGGUACAAAUUU	99	17,1717172	26,2626263	16,1616162	39,3939394	33,3333333	65,6565657	1,5	1,0625	-19,3	-18,9	0,0348818	21	-19,494949	-0,5848485
>adi_animal-miR-3606-2	GAUCAUCAAAAACUUCACAG ACUUGAAAGGGCGCACGGAC AAUGUCACUGAAAAUUUCUU UCACUAAAUUUGCUGAAGUU CCUGAUGGUA	91	18,6813187	32,967033	19,7802198	27,4725275	38,4615385	60,4395604	0,83333333	0,94444444	-23,2	-23,2	0,293958	3,65	-25,494505	-0,6628571
>adi_animal-miR-10107	AUUUAUUUUGUUAAAAUCCU UUUUGACCUUGGCUCGGCCU UCGAUCAGGAAGAGCUGCCA AGCUUAAAACUAUCUCAAAA AAAGUAUUU	90	15,5555556	30	18,8888889	34,4444444	34,4444444	64,4444444	1,14814815	0,82352941	-21,3	-21,3	0,236688	9,92	-23,666667	-0,6870968
>adi_animal-miR-2809	GAAACAGCGAACGGAUGGCC ACAUCUUAAGAAAAUCACAG AGAAGCUGCAUCCCUAUCAA AGUGGUACAGAUGUAGGACU CCUGAUCGGCUGUAAC	97	23,7113402	34,0206186	22,6804124	18,556701	46,3917526	52,5773196	0,54545455	1,04545455	-25,3	-23,5	0,113841	9,02	-26,082474	-0,5622222
>adi_animal-miR-153	GAGCCUGCACAACAGGCAUU UUUGUGAUUUUUGUCUGAUU CAAUCCCCCUCUGGCCAAAAU ACACCUGCUCUGCAGGUAA	81	18,5185185	23,4567901	27,1604938	29,6296296	45,6790123	53,0864198	1,26315789	0,68181818	-20	-17,7	0,122396	16,06	-24,691358	-0,5405405
>adi_animal-miR-2489	AUGAAUUCAGAAUUGCCUGA ACCAUUGUUCAAUGUUAUUG UAUGUUGUAUUUUAACAAUG GUGUAAACCAUUUUUGAAUU GUA	84	16,6666667	29,7619048	10,7142857	41,6666667	27,3809524	71,4285714	1,4	1,55555556	-19,8	-19,8	0,378479	6,12	-23,571429	-0,8608696
>adi_animal-miR-195	CCUUCUGCUGUCAACACUAUG UUGUAAGAAGCUAGCAGCAC AGAAAUGUCGCUGAAAAAAU UGUGGCUCUUCAAAAUGUAU AACAGAAGACUU	94	19,1489362	34,0425532	19,1489362	26,5957447	38,2978723	60,6382979	0,78125	1	-19,7	-13,8	0,0481793	21,02	-20,957447	-0,5472222
>adi_animal-miR-467e	CCGUAGUUAAAUACAUUCAU AUACAUACACACACGUAUUU ACAUGUGUGUCUGCGUGUAG UUCAUGUUAAAUUGUCAUCC AUUUAAUUAUCU	93	12,9032258	29,0322581	18,2795699	38,7096774	31,1827957	67,7419355	1,33333333	0,70588235	-19	-19	0,388216	12,75	-20,430108	-0,6551724

>adi_animal-miR-6399	GCUUGCAUGGUAUCCACAUU CACCACAGUAAGUUCAUUCA UUGCAAUGAUGGUAUUACUA UGUUGCAGCAAGUGUAAGGA UCAUGCACAU	91	19,7802198	28,5714286	19,7802198	30,7692308	39,5604396	59,3406593	1,07692308	1	-19,9	-17,1	0,0278185	22,97	-21,868132	-0,5527778
>adi_animal-miR-512	UGAGAGACUCGCAGCUGACC UCACCAUAAAUGAGUAUGCUU UCCGAAUCAAGUGCUGUCAU UGCUGCGCAUCUCCGU	77	22,0779221	22,0779221	27,2727273	27,2727273	49,3506494	49,3506494	1,23529412	0,80952381	-20,6	-19,6	0,059573	9,94	-26,753247	-0,5421053
>adi_animal-miR-11655	UGUUCUUUUUAACUGUAGAU GUACACCACAAAUGCAUCCUU UCAAAGGGUGUUGCGUGCUC AAUAGGGAGCCGUUUUGGUU UAUCUAGAGAAAAGAACA	100	22	28	17	32	39	60	1,14285714	1,29411765	-32,6	-32,6	0,120864	4,47	-32,6	-0,8358974
>adi_animal-miR-1674	ACAUGGAUUGAAUCAUACCA AUGUUGUGAAAUUCAAGCAG UGCGCUACAAACGACGGGCU AUGAUGCUGGAAUACAUUUA CUUUGAUUUCAAUCCAUUU	100	19	31	18	31	37	62	1	1,05555556	-23,6	-23	0,0269665	16,33	-23,6	-0,6378378
>adi_animal-miR-6818	CACUGAAGUAAAAAAACCAU AAGGAUAGGGCGAGACGAGA GAAAUUAACCUUUGUCUCUU GUUCCUCCAAUCUCUCUCUUA UUUGUCUUGGUUCAUUU	99	17,1717172	28,2828283	20,2020202	33,3333333	37,3737374	61,6161616	1,17857143	0,85	-19,8	-14,7	0,0215916	21,94	-20	-0,5351351
>adi_animal-miR-430a	CUUACCAGGUGAUUGGGUAG UGUCAUGUGACCUUUGCGGG CACUGACCCUCACAAAGGCAC CUGUGUUGG	71	29,5774648	18,3098592	23,943662	26,7605634	53,5211268	45,0704225	1,46153846	1,23529412	-23,4	-19,9	0,0375457	15,21	-32,957746	-0,6157895
>adi_animal-miR-9400	UCAGCUUGACAGCGAGGCCU AGGGGACAUAAAGAAAAUUG AAUGAACACGUUCAUUCAUU UCUUUUGUUUGUGUCCUCUA AGCCCCACUAUCAAGCAGA	100	20	29	22	28	42	57	0,96551724	0,90909091	-44	-41,5	0,099384	7,08	-44	-1,047619
>adi_animal-miR-12348	AUGGCAAAAUUUCUAUCAAA AUCAUGUUGGCAGAUAUUGU GACUGAUCAACGUAUGCCAC AUGAAAAAAUAGCAUUUUGC UUU	84	16,6666667	34,5238095	15,4761905	32,1428571	32,1428571	66,6666667	0,93103448	1,07692308	-22,2	-19,1	0,0958531	6,66	-26,428571	-0,8222222
>adi_animal-miR-4445	AGAUUGUUUCUUUUGCAACC UUAUCAGGGUUGUAAUGCAA CGCUUCUGGAGAAAAGUUGC AUGAAAACCCAAACAAUGGC CACAAAGGAGACUAAGGU	99	22,2222222	33,3333333	18,1818182	25,2525253	40,4040404	58,5858586	0,75757576	1,22222222	-30,7	-30,7	0,569708	1,87	-31,010101	-0,7675
>adi_animal-miR-9425	CUUGGAUUAAGAACACCCAA AAUAGCUGAGGAUUUUGUUU CCUGCUAUAUUGAGUGUUCU AACUCCUGC	70	18,5714286	25,7142857	20	34,2857143	38,5714286	60	1,33333333	0,92857143	-23,8	-23,8	0,415059	2,5	-34	-0,8814815
>adi_animal-miR-3606-1	UCUGAAAAUUUCUUUCACUA UAUGUUUACUUCUGAGAUUU AGAUCAUAAGAGCUGAUAAU CAAAGUUCUGAAUGUAGUUU AGGUGAAGACAUGUUUCAGU	101	17,8217822	30,6930693	11,8811881	38,6138614	29,7029703	69,3069307	1,25806452	1,5	-19,3	-16,2	0,0188264	28,1	-19,108911	-0,6433333
>adi_animal-miR-10879	CGUGCUACAGUGUCCAGCAA AUAAAAUACGGGCCAUAGCA UACUGUAAGUGCUGCCAAAC CAGAAAUUGUGAUUUAUUCA AUGGACAGUGGAUAGCACU	100	22	33	20	24	42	57	0,72727273	1,1	-30,5	-30,5	0,436383	3,32	-30,5	-0,7261905
>adi_animal-miR-8335	AAAUUGGCGCCAGUUGUUGU UGUUGUUUUUUUUCUGACCA AUGAGAAGUUUGAGCGUUUA AUCAACAACUACGGCUGCGGC AAAAG	87	24,137931	25,2873563	16,091954	33,3333333	40,2298851	58,6206897	1,31818182	1,5	-24,4	-21,28	0,0441354	12,65	-28,045977	-0,6971429
>adi_animal-miR-1192	AGGAAAAGUGUUUGCAGGUU UGUGAAAACAAACAAACAAA CAGACAACGUCACGUCGUGU	87	18,3908046	34,4827586	17,2413793	28,7356322	35,6321839	63,2183908	0,83333333	1,06666667	-19,4	-18,4	0,102254	17,27	-22,298851	-0,6258065

	UCUUUUUUCAACUGCAACUU UUUAAG															
>adi_animal-miR-2023	AACUAACAUCUUCUGUCUCU GCUACUUGGACUUUUUUCAC GUUUAUCGAUGAAAGAAGUA CAAGUGGUAGGGAUUGGGCU GUUAAUC	88	21,5909091	25	17,0454545	35,2272727	38,6363636	60,2272727	1,40909091	1,26666667	-37,7	-36,5	0,206978	4,06	-42,840909	-1,1088235
>adi_animal-miR-1814	GCAUGGCAGCCCCACGCUCAA ACAACUGAGCCACCGGGUCGC GCAACUAUUAUCUCUCGUUU UGUUUGGGUUUGGCUCGUCC ACCA	87	22,9885057	18,3908046	32,183908	25,2873563	55,1724138	43,6781609	1,375	0,71428571	-21,5	-21,5	0,0647028	10,39	-24,712644	-0,4479167
>adi_animal-miR-340-1	ACUCUCUAUUGCAUGAAUAU CUUUGACAAGAUAUGGAUUC CAAACUGGAGCAGCAUACUCC AGAAGUGGUUUAACCAAAGU UUUAUAAAGCAAUGAGAAA	101	17,8217822	36,6336634	16,8316832	27,7227723	34,6534653	64,3564356	0,75675676	1,05882353	-23,5	-23,2	0,0762521	9,33	-23,267327	-0,6714286
>adi_animal-miR-4931	UGACCUUCGAUUAAAAGGUC ACGCAAUACAGCGUCGCUGA UUGGUUGAGCAGCCUUCAGU CGAGGACG	69	27,5362319	24,6376812	23,1884058	23,1884058	50,7246377	47,826087	0,94117647	1,1875	-21,1	-18,3	0,159484	18,14	-30,57971	-0,6028571
>adi_animal-miR-599	AAUUUUAAUCGAAGUUCUCG AGUUCUAUGUUGUGUCAAUU UAUCAUUGUAUAAUCCUCAC GUUGGGGCGAAUAGAAAACG AGAUAUUCUUAAACUU	97	17,5257732	29,8969072	14,4329897	37,1134021	31,9587629	67,0103093	1,24137931	1,21428571	-21,5	-21,5	0,131573	10,2	-22,164948	-0,6935484
>adi_animal-miR-2763	GGGAACUCAGAAAUGGUCUA UUAUGCUCAUUACUGUCUCG GCUGUUGCUUUAUAGUAGAU GUUGCAAUAGCAACUUCGUG GUUUCA	87	22,9885057	22,9885057	17,2413793	35,6321839	40,2298851	58,6206897	1,55	1,33333333	-20	-19,9	0,00789239	20,07	-22,988506	-0,5714286
>adi_animal-miR-33	ACCACUAGCUCAUCCCCUGCG CAAGUUGUUUCUUCUUCUUC UGGACAGCCUUCCAGUGCUUC UGCAGUGGCAAGAACUAGUA AC	85	18,8235294	20	30,5882353	29,4117647	49,4117647	49,4117647	1,47058824	0,61538462	-20,7	-20,7	0,386761	4,85	-24,352941	-0,4928571
>adi_animal-miR-7-1	UGAUUUGCAUCUUCGACAAU GGAAGACUGGUGAUAACCCA UGGAAAGAACACAAACUGUU UAGUCCACAGUGCCCAUUUCU CAAAGAAUGCGAAAAUG	99	20,2020202	34,3434343	20,2020202	24,2424242	40,4040404	58,5858586	0,70588235	1	-22,2	-19,5	0,0407981	7,95	-22,424242	-0,555
>adi_animal-miR-3618	UGGAUCUUUGGAUUUCCAAU AAUUGAACGCGAAAUCUGAA AAAACGGAUUUUGUCGUGGA UUUCAUAAAUUCUUGUUCAG UAGGAAAUCUGAAGAUCCA	100	20	32	14	33	34	65	1,03125	1,42857143	-38,7	-38,7	0,115424	8,89	-38,7	-1,1382353
>adi_animal-miR-3403	GGCUGCAACAUGUGCGAGUA UUUGUGAAGUCUGAAGACUG AGUUGUGCCUCAAAAUUACG CACAAGGGAUUUGACACACA CACACACACACUUGCAGUU	100	23	30	22	24	45	54	0,8	1,04545455	-26,5	-23,7	0,0753581	12,96	-26,5	-0,5888889
>adi_animal-miR-234	AUGGGUAAAAAAGUCACAUU GGUUUGUUUUAGCCUUCAAC UUAUUGCUUGAGAAUGCAGA AAGAAACGAGUGGAAUUAGA UACCAAC	88	21,5909091	35,2272727	13,6363636	28,4090909	35,2272727	63,6363636	0,80645161	1,58333333	-19,1	-19	0,155788	8,53	-21,704545	-0,616129
>adi_animal-miR-9214	AACGACACUUGACAGCUUUC AGCCUAGUUCCCAGGAUCCUG UCUCUGUUAUCUGGGAACGA GGCAAAACUUUCACAUGCUCC AU	85	18,8235294	24,7058824	28,2352941	27,0588235	47,0588235	51,7647059	1,0952381	0,66666667	-22,5	-21	0,0551028	7,33	-26,470588	-0,5625
>adi_animal-miR-2a	CAAUGGGCCGGAUUUUGUGA GUAGGAAAUUUACUGAGCAG UGGGAGUUCCAGUGUGCUAU	84	25	25	20,2380952	28,5714286	45,2380952	53,5714286	1,14285714	1,23529412	-20,6	-14,4	0,0394412	18,3	-24,52381	-0,5421053

	CUUAUCACCAUAUCGCCCCAAAU															
>adi_animal-miR-8196a	CUUUCUUGAUCUAUCAUGGAUGUAUAAUGUUGUAGUUAAUUUUUCUUCCUGUUAAACUUUAGUUUUAUACAGAUAGACAGAUCAAAGAGGC	92	16,3043478	28,2608696	13,0434783	41,3043478	29,3478261	69,5652174	1,46153846	1,25	-18,6	-17,3	0,018955	11,1	-20,217391	-0,6888889
>adi_animal-miR-10a	AUUAGAAAAGAAACUAUUCCAUGAAAGAGAAAACACUGCUUUCAGAGCGGAAACAAUUUUUAGUUUCGUGUUGCAUCAAAUUCGUUUCUGCAUUUCUUUA	101	15,8415842	33,6633663	15,8415842	33,6633663	31,6831683	67,3267327	1	1	-19,3	-19,3	0,180175	11,18	-19,108911	-0,603125
>adi_animal-miR-2030	AUUUCUGUUUACGGUUUAACUGGAUAGCAUAACAUUGUAAGAGAUCUUUAAAGGUCUCUUACAUUGUUGUGCUGCCUGGAAAAACUGAACUGACUG	97	20,6185567	27,8350515	15,4639175	35,0515464	36,0824742	62,8865979	1,25925926	1,33333333	-40,2	-40,2	0,133959	6,42	-41,443299	-1,1485714
>adi_animal-miR-8884	UAGCCUGCAGUCAUCAUUUGAAAAGUCUCCCAGUUGAUGAAAUAUGGUUAUUAAUUUGAUGGAUUUGCUUUCUGUGUUUCAAAUCUAUUUUUGCAGGUAC	101	18,8118812	24,7524752	14,8514851	40,5940594	33,6633663	65,3465347	1,64	1,26666667	-24	-22,8	0,0809518	12,14	-23,762376	-0,7058824
>adi_animal-miR-8485	ACACACACACACACACCAUGUCAUGUUAAAAUUGGUGCUCCUAGAUGUUGUUUUUGACACUUCCUUUGCUUGACAUGAGUUCUGUGUCUUGCAU	97	16,4948454	23,7113402	23,7113402	35,0515464	40,2061856	58,7628866	1,47826087	0,69565217	-20,2	-13,9	0,035518	14,05	-20,824742	-0,5179487
>adi_animal-miR-1788a	GUUUUCACUUUUUUUACUUUCCAUGUGCUCACCGUUUGUAUCCAUCGGGAGCUUUUGCAAAGUAAAAGAAAAAGAAGUG	79	18,9873418	26,5822785	17,721519	36,7088608	36,7088608	63,2911392	1,38095238	1,07142857	-21,4	-20,3	0,0562014	10,61	-27,088608	-0,737931
>adi_vegetal-miR7815	CAGGGAGCUCUUCAAAUAAAGUAUGUAUGUAUGUAUGCAUGUAUAUGUAAAAUCAUGUCAGCAUGAAUGAGAAAAGGUGGCAAAUUCGUUUGCUAGUGGUCCUUCUUGCCCUGUGUAGACUGGAGUCGAUUGGUUAUAUAUCUCGCCAUUUCGAUCCAGUGCACAUACUUUUUUAUCAGUUCCAAU	187	21,3903743	26,7379679	17,1122995	34,2245989	38,5026738	60,9625668	1,28	1,25	-48,2	-36,7	0,0007904	38,5	-25,775401	-0,6694444
>adi_vegetal-miR10989e	CAAACUCGAUCUGACAUAUCUAUAUACUUGCUGGAUAAUGCAGAUGAAGGACCAUCAGCAAACAUCAAAACGCCAAAGGCGGCAGGCAAAGCUUUUAAUAUCAGGGAGGUCUGGAACCCAGUAUGUUGCCAUGGUGACAAAACCAGUACCCUCAUGUAGUAGGAUCUUACUAGACAGGAUCAGGCAUUUCUGAACAAGAUGUAAGCUUCGGGAAAACUAUGAUCUGAUUGAAAUUCUGUGUACCAAAGCACGUGACUAAUAGAGUGUGUUCGCUCGUGUGAC	283	22,9681979	32,155477	20,1413428	24,3816254	43,1095406	56,5371025	0,75824176	1,14035088	-64,8	-21,3	0,00021937	98,58	-22,897527	-0,5311475
>adi_vegetal-miR1520n	UCCCUCAUUAGCACAUUAUCUACAAUUGUAUGUAUUGAUUAACGCAUUACUCAAUUCCAGCUGCAUCCUGCCCCCCCACCCCACCCCCGGGAGGCAACUGCAGGGCAUUGACUAAUGCAUGACGCAGCUGGCAACGUACAGAUGAUGAACUUAAUUACGGAAU	205	18,5365854	30,7317073	26,3414634	23,902439	44,8780488	54,6341463	0,77777778	0,7037037	-52,3	-43,5	0,00363919	26,87	-25,512195	-0,5684783

	AAAGUACAGAUUAAUGUCAG AAAAUGACACGAAUGAGUCU															
>adi_vegetal-miR829	UAACCACAGAGACAUUGGUU CCAUUUUAUUUCAUGUACAA AAUUUAUCAUUUAACUUUGA AGCCUUGAUGGACAAGUAUG AUGAAAUGGAGAUCCUGUCC UGAGGCCC	109	18,3486239	30,2752294	18,3486239	32,1100917	36,6972477	62,3853211	1,06060606	1	-26,5	-26,5	0,125124	9,77	-24,311927	-0,6625
>adi_vegetal-miR774a	UCGUGCUUCCAAAUGAUAGC CUAUCUCCACCUCCAAAGAAC UUUUCAGUUUUUUGUCCCCU GGGGUGGGGGAGGAAGGACA GGCCUUCAUGAGGGAAGUCA AUG	105	26,6666667	22,8571429	22,8571429	26,6666667	49,5238095	49,5238095	1,16666667	1,16666667	-39,4	-37,7	0,138058	8,6	-37,52381	-0,7576923
>adi_vegetal-miR9741	UGUUCUAUCUUAUCUGGUAA GAGCAUUGUGAGGAUUUACU GGUCCAUAUUAAACUUGAUG GAAAUUUAGUCAUUUGGUUA AGGAAGCCCUGAUAAUGGCC AUUGCUGGUGACUGUAAAGG CUAUUAUUGGUGACUAUAAU GGCUAAUAUUGGUGACUGAU GUUUUGACAUCCUGAGAAGA AGUCUCCUCAGAGUUGAUUG ACCUGUUCUGUCAUUUGAAU GGAACACGUCAGGUGUGUUG AACUGAGAACUGUUUCUGAC GAAAUUGACUCUGUUCCAGA ACGAUGACUA	291	24,0549828	26,1168385	15,1202749	34,3642612	39,1752577	60,4810997	1,31578947	1,59090909	-83,5	-64	3,95E-05	87,28	-28,694158	-0,7324561
>adi_vegetal-miR6288b	UAACCAAUGAAACUUCGACG UCUGUCGUCAGUAGCCAAUU AGGCCGGAGGAUUUGUUAUU GACGAUAAAGUGCGCCAGUU AAAUGGACACGUUGGUGUAG UAGGUUUUUUGUUUUUGUUU UGUUUUUGUUCUUUUUUUAU UGAAUAAAUGGACCUUUUUU GUUAUUAUUCUGCGUUCGAG GACAAGGCGCGAUUUUGUCA UUGGAGC	208	24,0384615	21,6346154	13,9423077	39,9038462	37,9807692	61,5384615	1,84444444	1,72413793	-51,4	-37,8	0,00478576	46,39	-24,711538	-0,6506329
>adi_vegetal-miR8695-2	CUUUUCAGUAGUGUCUUCCU CUUUCUUCCUGCCUCUUCCGG CCAUCCAUUCUUGUUUAUUG CAUUACCGUGUGACGAUGUA AAAGAAUGUGUCUAGGAAAG GUUGAAAGAUAUAGGGAGAA CGAUAUUGAACCC	135	20,7407407	23,7037037	20,7407407	34,0740741	41,4814815	57,7777778	1,4375	1	-40,5	-38	0,0131576	13,35	-30	-0,7232143
>adi_vegetal-miR169i	GUUAUAAACGAUAAUCAAGU AGAAAGAGAAGUGAAGAUGA GGGCUACGGAAUGGGGCCUG CCAUCCCGUCUCUUUCUUCCA CGGCUGUUGGGUCUUUUUUU UCCCUGUUUGCUUUUUCUGU UUGUACUUUGCUUAGCAGUU UAUUAU	148	22,972973	20,2702703	18,2432432	37,8378378	41,2162162	58,1081081	1,86666667	1,25925926	-39,3	-39,3	0,018516	10,13	-26,554054	-0,6442623
>adi_vegetal-miR2593d	GAUGAAGAAAACAGUUUACA AUUUUGAAACAGUAACAAAU UAUCAAUUCUCCAAGAAUUA UAAACCACUUCAUUGUUUGA AUGAUUAGGGUUGCCAUACU GGUGUACUGGUAGCCUGUGG CCUAGAACUAACAACCCCAUU UGGGGAACCUGGUAGGGCAC CCCUAUGAGACACUACAGCUC CAGCAACUCUUUCUGUUAGU	252	19,8412698	31,3492063	20,2380952	28,1746032	40,0793651	59,5238095	0,89873418	0,98039216	-68,3	-66,6	0,00241701	32,86	-27,103175	-0,6762376

	ACAGACAGUGAAGCUGAGAA CAGGGAAAUUAUCAACUUUG UUCUUCUUG															
>adi_vegetal-miR12148	CUGAGACUGAAGAAGCAUAU GCAACACUAGUAGCAGGAUC AGAAACAGGAUCAGGAUCAG GAUCAGGAUCAGCAGAGCUG GGCGGAAUAACCUCUUUGGU UUCCAUCACAUGGUCGGAUA AAGCUAAAGUACGUAAAGGA GAAAACGAUGAGCCUUAAGC CUGCAUACACUCCCUGGCAGU GUGGGGUUAGGGUUAGGGUU UGGGUUAGGGUUUAGGGUUA UAAUGAUAAAGAUAUUUACA AAUUAAACUUAACCGUGGAG AGCAUGGAAAGGAAUUCUUG UUUCACAAAGUGGUUGCUUA GACUUCUUCAGCUGGA	318	27,3584906	31,1320755	16,0377358	25,1572327	43,3962264	56,2893082	0,80808081	1,70588235	-86,6	-80,1	6,37E-05	62,48	-27,232704	-0,6275362
>adi_vegetal-miR6235	GUUCCUGCCCAAGUAUUGGU AAGUAGUGGUAUUAUUAGUG AGAGAAAAAGUGAGUGUCUG UUUCUGAAGGAACUGGUGCU ACUUAAAGUUUUAUCAUUCA AAUAAUAAUUUUAUCAUGGU GGUUGCAUUAAACAUGGCAU GAAGCAUGAUAUGACAUACU GUACACCAUACCCUGGGUAG GUGG	185	23,7837838	29,7297297	13,5135135	32,4324324	37,2972973	62,1621622	1,09090909	1,76	-44,9	-20,62	0,00026852	52,37	-24,27027	-0,6507246
>adi_vegetal-miR1053-2	AGUCUAACUAUUGGUCAAAG UAAACAACAGUGACCAAUGA AAAGCGACGUUUGUUACACU CUACUUUGACAUUGCCCAGA GCUCGUGGAAACGCGCCAAUC ACCCGACAUGUUACAAUUUG UGAAAGCGAUGAGAAGUAAA GGGGCCUGGAUUGUCAUCUG CAGGCCUUUGGGCCUCACGGC CAGGCCUGAGUUGCUAGAGG CAUGUUUGGCGCUAACCAGC GUUAACUUCCAUAGAAAUGC GUCGGCUUCGUUACUUCGUA ACCAAUGGUUAGCGC	278	24,8201439	26,618705	23,381295	24,8201439	48,2014388	51,4388489	0,93243243	1,06153846	-86	-83,1	0,00010986	45,25	-30,935252	-0,641791
>adi_vegetal-miR536b	UAAAAUAGUGUGAAUGUUAU GGAACAAUUAAUUUAUGGUU AGCGUCCGUCCGUCGACGUAU GCACUUGGGAAGUUGCCAAG CACUCGAGGAGCUAGAGUCG CUUUAGGCGGUAGCAGAGUG CGACUCACACGCUUUUUUAU GCUUAGAAACCUCCUGUGUG CAUCCAUUACGCAAAGGACGC UAACCAUGAACCAAUUGAUA ACUGAUUAACAAUUAUUCCU	223	22,4215247	28,2511211	20,6278027	28,2511211	43,0493274	56,5022422	1	1,08695652	-77,9	-74	0,00588498	16,14	-34,932735	-0,8114583
>adi_vegetal-miR6150	AAGUGCGUGACUUCGUUGAC UAUAUAUGUUGUAAAUAUAU UGCUGUCACUGUUUGAUCAG CUUGGAUUUCAAUUGGCUGC AUUUUCAGGUUACUUUUGAA GGCAUCCGUGGACCAGGUUG GCAAGGGGACAUAGCUAUCG AUGAAGUCAGCAUAA	156	25	25	16,025641	33,3333333	41,025641	58,3333333	1,33333333	1,56	-53,4	-52,4	0,0474389	12,95	-34,230769	-0,834375
>adi_vegetal-miR12162	CAACAAGACAUGCAGUCAACC GAGCGCGCAAGCUGGUAUCA AUAUUAGUCUGAUUUACCAU CAGGACGGGAACGUCACAUA	238	25,6302521	25,6302521	22,6890756	25,6302521	48,3193277	51,2605042	1	1,12962963	-84,7	-74,1	0,00713673	28,8	-35,588235	-0,7365217

	ACGGCGAGAGGGUGUGUGGA AUGGUCUGGAUUCUGCUCCA AUUUGACCUUAUUUGGGUAU UUGCACGGCGCACGCCGUUGU GAAAUGACGUUCACGUUCUC UUGCUAAAAUCAGCCUAAAAG UGAAGACUGCGUCACCGGUG CACAUUUACUUGCAG														
>adi_vegetal-miR1847	AGACCAUUUCUCAGUCGCUG UUUGCCUCAGUUUCAAAGUG AGACUAAGUACAUUACUAAG UCAAAAUCAUUUCAGUGCCA CAACUUUCACUUUGAACCAU AAGCAAACAGCAAACUCAAA AAAGGGGG	129	16,2790698	34,8837209	22,4806202	25,5813953	38,7596899	60,4651163	0,73333333	0,72413793	-33,5	-31,5	0,0382966	12,28	-25,968992	-0,67
>adi_vegetal-miR8722	UAAGUCCUUCCUUCUUGAAC UCUCUACCAAGAGUGGUUUC CAACAUAGCAGGUGUCGACA GAGCUCAGAAGGGCCACACU AUUUAUGUGGCUCGGCAUCA UGCAAACCUGUUUUUUGGCU UGCAGAUCAUGUUUUUCCUG UUUAUCAUCCUGGGUGCACU GUUGAUUGUAAACAUGUUGA UUGCCAUGAUGGGGAACACA UACCUCAAAGUAGCAGAAAC CGAGAAGGAAUGGACCCG	239	23,0125523	25,5230126	22,1757322	28,8702929	45,1882845	54,3933054	1,13114754	1,03773585	-78,9	-78,9	0,0281625	26,81	-33,012552	-0,7305556
>adi_vegetal-miR3951a	GAACUGAAUACAUAUGACUG AAAUAUGAGAGAAACAACAG GCUUGACAAAAAAAAGUUGG CCGGCACUCUUAUCGUGAUG UGUACUCAGUAAUCUCUGCCC CUUCUAAACAGGAACACAGU UCUUAGUCAUUAAUUAACCG AUUUAUUUUGGUUUUCAGAG UGAUCGUGUUGUUAUAGGAG GUGAUCACUUUUUCAGGUAU AGGAAAAUGUUUCUGCCAGA AUAUUUUUCUGUUCUUGUAU UCAGCAA	249	19,6787149	30,1204819	16,4658635	33,3333333	36,1445783	63,4538153	1,10666667	1,19512195	-61,7	-52,2	0,00120039	62,03	-24,779116	-0,6855556
>adi_vegetal-miR1520e	UAUAUCUCAUUAUUUACGUU UUUCUUUUUCUAAAAAGCUG GACCACAGAAGUUUCCCGCCA UGUACCUUCGCUAUCCUCAGA UUUCUGUAAAGGAGUCUGAA AACGAGAUAGUCUCCUUGUA UUGUACUGUGCGGAUUGAUC CUGAAGUAAGACAAUGGAAA AAUGUGACAUAUGAGAUUGA	183	19,1256831	28,9617486	18,0327869	33,3333333	37,1584699	62,295082	1,1509434	1,06060606	-47,3	-45,6	0,0076761	22,59	-25,846995	-0,6955882
>adi_vegetal-miR11314	ACCAAAAUGUUUCACUUGGA ACUUGUGGAUGCUUUAUGCA GCAUUAGUAAGGUUAGCAUU AGUUUGCCAUGAGUUAAGGU UAUCUUGAGCAGUUCUGCAU AAAAAGAAUCCAAAUGUUCC AAGUCAAUAAUUCUUUUU	139	18,705036	30,2158273	15,1079137	35,2517986	33,8129496	65,4676259	1,16666667	1,23809524	-36,7	-29,7	0,00328456	21,94	-26,402878	-0,7808511
>adi_vegetal-miR11287	GUGAAUUUUACUGUAGGAUG GAAGCUAUUCUCUAGCUCCG UGACGUUGUUUAUUUCCUCU UUGUUUGUGUUUCAUAGAGA AAAGAUGUCGUCAAUGAUUC UUUUCUAAAUGAGUGGUAUG UUAGGGCUUUGGUUGAUGAU UUUAGUCUCAACUUCCGCCAU AAAGAUGAGGAAGUGCGUUG GAAACGGAAGCUCGUUUCUA	235	22,9787234	23,8297872	14,4680851	38,2978723	37,4468085	62,1276596	1,60714286	1,58823529	-61,7	-56,4	0,00053502	54,05	-26,255319	-0,7011364

	UAGAAUGUUUCGUAUGCUCU ACAUACAAUUUUG															
>adi_vegetal-miR5185m	AAAAACAGGCACCUAAGCCG UUGCUGCUGUUCUUUUUUGU GUUUUUUUGUUUUGCAAUGC GUGCCGUAAAUCGAUAUGAUA AGUGCUGCAGCGUUAUCGUA CAAAAUACAUACAUUUUUCG AAUCUGCAGUUUCUGAACAA AAGAAAUCGGCCAUAAUCUC UUUUGUUUGUUUUUGUCGCC UUCUUUUUUUAUGUCUAGAU UGAGCUCAUAUUCCGUUUCU AAGAGCAACGGUCGGGCCGU UGCC	245	19,5918367	22,4489796	19,5918367	37,9591837	39,1836735	60,4081633	1,69090909	1	-55,5	-40	0,00266382	56,43	-22,653061	-0,578125
>adi_vegetal-miR530-2	CCAAACGAAGUAUGUCGUGA UUUGUUUCACACCAAGGCCU ACCUAACCUGAGAAUAUGAG CAGAAUUUAUCAUUUGGCUG UUGCCGCGAUAUGUUUCACC AUUGGGAACAUUCGCUCUUA GGGGGUAAAUGAGCCUGUCC GAGUGCGUAUCCCUGAUAGA GGAUUUGGGUUGCAGAUAGU GAAGUGGAGUCCGGAUGUGG UCUUGAAAGCGGAUGGAAGU CGGUGGUAUUUGGUGCAGGU GGGCGGUUCAACAACGGGUG UUCAUGCAGAUCAUCUCAUC GGGGCACUUGGUCAUAAGAA CAGGUCAGCUGACUUGGUUG AC	323	30,0309598	23,5294118	18,5758514	27,5541796	48,6068111	51,0835913	1,17105263	1,61666667	-98,6	-77,2	0,00036382	80,82	-30,526316	-0,6280255
>adi_vegetal-miR2608	AGAAACCCAAAUCAUAACAA GCAUAUAUAAUGCAAGCCUC UUUAAGUUUACCAGUCAGUA CCAAGUCUCUAGCUUGCAUG GUUUUCUUAUUGCUGACUGG AAGAUCAUAAUAUAGUUGUA CAUAUAUGACUACUGUAUUG AUUUCUGGUUAAC	154	15,5844156	31,8181818	18,1818182	33,7662338	33,7662338	65,5844156	1,06122449	0,85714286	-37,6	-36,1	0,0574528	13,16	-24,415584	-0,7230769
>adi_vegetal-miR11970-2	AUGCUAUUAGGCUGAUAAUG ACGACGUGAGGGUGCGCGAC AUAGCGUAAAUUUUGCUCUA ACUUGACCAUAUUUGGGUAC UUGCACUUCGCGCUAUUUGG GUGGUUGCACGUUCACGUUC UCUUGCUAAAUCAGCGUAUU AGUUU	146	24,6575342	21,2328767	19,1780822	34,2465753	43,8356164	55,4794521	1,61290323	1,28571429	-47,7	-45,3	0,0410611	9,75	-32,671233	-0,7453125
>adi_vegetal-miR1054	UCAUUACAUUUUGUAAACCC UCUCUCUGUUCCUUUUGCCG ACACGUUUGGAAAGCAAGUC AACGGUUCAAAUUGUGUCUU CUUCUUUGACAGCCAAAUUA UUCCAACUCUGUGGGUUGAA AAACGUGGCUGUGGCGCAAA AAGUCACUUUGGGAAGGUGC AGUUACAAAAUGUAACUA	180	20	26,6666667	20,5555556	32,2222222	40,5555556	58,8888889	1,20833333	0,97297297	-55	-52,9	0,0115654	12,59	-30,555556	-0,7534247
>adi_vegetal-miR395b	UUCCUUCCUUUUAAAUGAUA UAUUUGGGGGAUCCUUGUUA AGCCUGAACAUUAUAGCAUA AUAAAAGAAAAUAUAUAUAU AUAUUUACAUAAGGCAUGCU GUAAACUGUUGAGUAUUCUG UAUUCAUCAUUGUUGAGUGG AACAUGCCAAAUAACUUAAA UAGUCUGUGUGGUCCUUUUU	242	19,4214876	30,5785124	14,4628099	35,1239669	33,8842975	65,7024793	1,14864865	1,34285714	-52,6	-39,45	0,00016058	49,57	-21,735537	-0,6414634

	UUAGGGGGUGGGGGUUGCCC AAGUUAUGACAACAGACAAA UCUUUCUUUCCAAGGAAGUA C															
>adi_vegetal-miR8688	AUAAUAAAGGUUUAUUAACA ACAUAUCCAAGUGUAGUUGG CUCUUCAUCUGUGAACUAAC UAAUACUAACUAAAAACUAC AAAUAAUAAUUAUUACAAUA CCAUUUAUGAGUAGCCCAAG UUCAGAAAUAGCCAAUUGCU GGAGCUGGAUGUUUUAUAAA AGUUUGGAAAAGGAGCCACU CGUAAAAUAGCUCUGUUAGU GAAAAUGUAACAUGAGCUUU CGGUUGCAUGUUUGGGUUAU GGGCCGCUGAUGCUGGCCCAA CUUAAACAAGUAUAUGUUUA GUUACAGAACCAAGUAGACG AGAUUGAAUGGAUGCUAUAC ACCUUAUUCC	332	18,9759036	34,3373494	16,2650602	30,1204819	35,2409639	64,4578313	0,87719298	1,16666667	-79,5	-70,6	4,93E-05	66,47	-23,945783	-0,6794872
>adi_vegetal-miR3699	UUCUUUCUAUUCUCUGACAU CCAUCCAUUAACGUGGAUGU CUUGGUAAUGCAUGUCCCAA CGAAGGAAGAUAAAUUUGUC UCUACAGAAGAUAGACUUAA UUCAGUUCACUAUUUUAAUA GCAAUUAAACCGGCCACAGG UCUAGGUUUGCAGUCGCAAA AUGCCAACGCGUUUUUCGUG CAAAAAGUUUGUUUUGUUUG GUUUUGUUUUGUUUUGUUUU UUCUUUAAUUUUGCGCCCUU GUAAAUUUGGGGUGAGGAUU AGACACCCACAAUUACGGUA UUCGUUAUUACGGUUAGGAU UGAUAGAGAACAAGAAACUU	321	19,6261682	26,4797508	16,8224299	36,7601246	36,4485981	63,2398754	1,38823529	1,16666667	-74,4	-60	1,07E-05	86,58	-23,17757	-0,6358974
>adi_vegetal-miR9474	UAGAAGGAAGAAGUCAUCAA UGAAUUUAUUCAUCACAGAA UGAAAAUAUCUCUUCUUGUU GUCCCCGCAUCUAAAAUAUG GUAUGGGGGCCUAUUCUUGA UUAUUUGUCCCUUUGU	117	17,9487179	28,2051282	17,0940171	35,8974359	35,042735	64,1025641	1,27272727	1,05	-28,2	-26	0,0745047	13,85	-24,102564	-0,6878049
>adi_vegetal-miR1516b	GCGAGCUUCUCUUCAGAAGC AUCUGCUAUCAAUUUUUCUG UUUAAGACGUUGACAGCAGU GCUGUACACCUGUCAUUGGA AGGUUAAGUGACAAAAGGAC UUUCCGAGGCUUUCUCUGUC AGCUAAACUCGACGAGUUUU GUUUUAAUUCUUUUUUUGCC AUAGUGUCCAUGAUGGAAGC GUGUGCUUACAAUCGCUUAG AUAUCAACACACUGCUGAAA UUUGCCAAGCAGAAUAACUU CAAGUGCUUAAAGUGCAUAU GAAGCGAAACUUUA	275	20,3636364	27,2727273	19,6363636	32,3636364	40	59,6363636	1,18666667	1,03703704	-72,5	-66,8	0,00303979	46,92	-26,363636	-0,6590909
>adi_vegetal-miR2111a	AAUCCCUGAGGAGUAAAGAG GCUCCAAUGUAGGAGGGGAA GAAAUCUUGGAAUGCACGUU UGAAGGAUCUUCUUUCAACC AACUGGGACCAUUUCAUUAG AGAUUGUGCUGAAUGACUUC UCCUGAUGGAAUGCUACAAG AUCGAACAUCAGCUGGGUUU	198	26,2626263	26,2626263	18,6868687	28,2828283	44,9494949	54,5454545	1,07692308	1,40540541	-62,9	-61,2	0,00243446	21,01	-31,767677	-0,7067416

	UCUUUUGCUGUUGACAUGAG CCCAUUUCUCAGGGGGG															
>adi_vegetal-miR8695-1	GAAAUCAUUAAUCAUUCGAU UACAGGAAAAUUAAAAUUGU GGAAAUGCAGAAAUCUUACU AUUAUGGACAUAAUCCAAAU UGUUAAAACCUUUGUAGUUC CAAUGAUUAUGUGCUGUGUG GGCUCAACUGGCUUACACAA AAAAGUGAUCAAAGAAGGCA AUAGUAUCAAACACUUUGAU UUCAUAAGGAAAGACAAGGG CAGGGUAAAACGGUCCUCUA UUAUUGCGCUGUAAAAGAAU UGUCAAUGAUCAU	254	18,8976378	37,4015748	14,5669291	28,7401575	33,4645669	66,1417323	0,76842105	1,2972973	-58,6	-55,2	0,00261441	25,99	-23,070866	-0,6894118
>adi_vegetal-miR11517	UUCAAGACAAAUAGUUUCUG CCAAGAAGUCUGGCAGAAGC UGUGACAGUAGAAAGGUAGA GUGUGCAUACUUUUAGUAAA CUUGUAUGUCUCGUCUAAGG AAUCAGUAAAUUGCACUCUU CUGAUGUUGAAGUUUGACAA UUUUUGUUAACAGGAGAAAA UUUCAAGAGAGGCAUAGAGC AUGGGACUUAUCAGUCGUGU AAUGUUAUUUCAAUACAAAU UGUAUUUUCAUUAUGAAAAU UGGACAUAAUCUCUUUUUGU CUUAUU	267	20,2247191	31,4606742	13,1086142	34,8314607	33,3333333	66,2921348	1,10714286	1,54285714	-61,8	-28,5	1,83E-05	85,5	-23,146067	-0,694382
>adi_vegetal-miR482b	GAAUAUUAAAUAAUAAGCCG UCACGCCUGCGCCCAAUCUUG ACUAAUUAGGUAAAAGAGAG AAAAUGGGAGGAUCGAGAAA CGGUUAAAGCAAUGGACGGA AGUCGCCGCUGUGCAGGCGA GCGAGCUUUAUUAUUAGUCA AUAAUG	148	26,3513514	34,4594595	16,8918919	21,6216216	43,2432432	56,0810811	0,62745098	1,56	-38,9	-38,8	0,0116672	19,53	-26,283784	-0,6078125
>adi_vegetal-miR7756	CUAUUUGACGCAGUCAUCGU CUGUAAGCGAAGCAAAUAUU CAUUGGUUGCUAUGCAAAGC CAAGAAUUUUGAUUGUUUUA CAGAAACGCCCAGCUGUCAAA CUU	105	19,047619	29,5238095	20	30,4761905	39,047619	60	1,03225806	0,95238095	-26,5	-26,5	0,0162416	12	-25,238095	-0,6463415
>adi_vegetal-miR7529	AGAGUUAAUGUGCCAAGCUU UCAAGUGAAGGUGUUGAUGG UACCUACCAGGGUAGCAUCA AAUUAUGUCUGAGUGUCUAC CUAGGGCUGGUUGCUUGAAG CAUGGUUAACACUAACCAU	120	25,8333333	26,6666667	17,5	29,1666667	43,3333333	55,8333333	1,09375	1,47619048	-34,7	-31,47	0,00800557	22,26	-28,916667	-0,6673077
>adi_vegetal-miR530-1	ACAACUUGCACAUUUGUCACC UUGGCACUGCAGCAGUCUUG AGGACAGACCGUCAAACAGA ACUUGAUGCAGACAGGGGAG CACGGUUUCUUUGGCUGUGG AGCAGCGGGUGCAGGUGCAG GUGCAGGUGCAGGUGCA	139	33,0935252	23,0215827	22,3021583	20,8633094	55,3956835	43,8848921	0,90625	1,48387097	-51,2	-41	0,00796021	36,2	-36,834532	-0,6649351
>adi_vegetal-miR6475	AUGGCAGUACUGACUUUAUA AUUGAUUACGUAAUAUAAUU UGAUCUAUAAGGACGUAAUC UUGAGAAGUAGUAGAAAAUG UUGAAUUGCUAAAUGUUCAU UAAAUUUCAUAUCUAUUCAU UAGGAUAGACUGUUCAAAAU UAGUUUAAAAGUGGUAUAAU AAUUUAGCCUUAAUGACAAC	303	19,1419142	34,9834983	12,5412541	33,0033003	31,6831683	67,9867987	0,94339623	1,52631579	-64,2	-60,1	9,22E-05	47,12	-21,188119	-0,66875

	CUUUGUGUCAUCUGAGAUAA GUUAAUAGGCGCGUGUCUCG GGGCGUGGGUAAAUUGACGC ACGUCGCGCAUAAAUUGUCG CAGAUCCAAAAUAGUAAGAA AAAAUUAAAAUAUUAAUGCU UC															
>adi_vegetal-miR8782	AGAUGGAAGUUGGUGUUGAA CCUUCAUUUGCUUUGGCAAA GGUCAGUCUUAAGUAACAUU GUCACUGCCUUGUGAGUGUG AUCAUUUGCGAGGUGGUGGA CUGUGGUAGGGUUUCUACAU AUGUUUGCUGUCUUGAUGUG UCUGUACAUGUACGUCCAAA GCAACUGUCUCAGGCACCGAA CUCCAAGG	190	27,3684211	21,5789474	17,8947368	32,6315789	45,2631579	54,2105263	1,51219512	1,52941176	-60,4	-53	0,00024204	29,59	-31,789474	-0,7023256
>adi_vegetal-miR1863	UAUUUCACUGUAUAUACAUU AUUAUGCUCAUUACUUUGCU CGGGAAAGUGGAAAGUAUUG CAUCCCUUUCCCCAGGGCGGG GUGCUAGUUCCUCACAGGGC UACCCUUCGAAGUUUGUCGC UGGUACCAUGCACCUGAGUU ACGAGAGAUAACUGAAAUGC AGUGAAGGU	171	23,9766082	23,9766082	21,6374269	29,8245614	45,6140351	53,8011696	1,24390244	1,10810811	-55	-52,6	0,00973299	18,14	-32,163743	-0,7051282
>adi_vegetal-miR11343	CUUAUUUGACAAAAAGAGUU GAGAAUUUUGCCCUUUACAA GGUAAUUUGAUGAUAACAAC ACUAGAUAUUAUGGGGCUAA UUCUCCUCCCACCCCACCCUG GGCAAUGUUGCUCUCUGGGG AAUGCAAUAGUUUGAGUGAC AAUUCAACAUUACUUUUGGG GCAGGAGAGAGACAAAUUCC AGAUUUCAUUUUUUUUUAAA UGCAUUUCCUGGAAUGAAAC AUGCGCUUGACAGUUUUCUC AGCUAUUUUGUCUAAGAUUG U	263	19,391635	28,1368821	18,2509506	33,8403042	37,6425856	61,9771863	1,2027027	1,0625	-68,6	-66,35	3,19E-05	42,42	-26,08365	-0,6929293
>adi_vegetal-miR11551a	AAAAAGCGUUUGUUUUGUUU UCCCUGCGCAUUCGUGUCGCA UCUGAUUAAUGGCUACUAAU GCUAUUCAAAUUAUUGCGUA GUUUAUAAAACUUUAAAACU UAUUUUAUAAAUGAUUUGAA CAGGCCACUAGUUAACAUUU AAGUUUUUGACCAGGCUUUG CCGUUGUAAAGGGCGUUACC UUGCGAGACUUAAGCCGGUA CAUAUAUGAAAUGCUAACAA CAUAUCGCGAUGCACGAGCCG CGAGUGAGCAGGCGGCAAAA ACAUACGCUUAAA	276	19,9275362	30,0724638	18,4782609	31,1594203	38,4057971	61,2318841	1,03614458	1,07843137	-77,2	-67,9	1,94E-05	36,06	-27,971014	-0,7283019
>adi_vegetal-miR7533b	UAAAAAUAAAUUGGUGGAUA AACUUUUGGAUAAAGAUCUA CAUCUGCCUAUAAAUGGAGU UUGUGGCGUUGAAAAUUCUG AACUGGACCUUUUAGCUUCA GAUGGAGAGAGGCUGAGCAG UAGCAAGGCUUCUUCACCAG AUUUAUUUGGA	152	23,6842105	30,9210526	13,8157895	30,9210526	37,5	61,8421053	1	1,71428571	-39,8	-39,6	0,0053964	26,69	-26,184211	-0,6982456
>adi_vegetal-miR9731	GAUGGUUUGCGAGGAAGAGA UACGAAUUACAGCAGUGAAA GGUUCACCUUUAGCGCUCACU GGGAUCAGGCCUUUUCUGAC	132	30,3030303	24,2424242	18,1818182	26,5151515	48,4848485	50,7575758	1,09375	1,66666667	-45,3	-42,3	0,0963387	13,09	-34,318182	-0,7078125

	ACGGAGAGUGGCUUGGUAGA AUAUCGUGUUGCUCUUGGUA GCAAACCUGG															
>adi_vegetal-miR1136	AUCAUCAUAGCUUAAACAUC GAGGAGGGAUACACGACCCC AGAAGCACCGCGCCUUAGCCU UUUGCCGUGUUAAAUAAAGA AUAUGUAUGUAUGUAUGCAU GUAUGCAUGUAUGGGACUUC UAUGGUUUCGUUUAUCAUUA AACGAUUUUGAGCGAAGAUC UU	164	21,3414634	28,6585366	18,2926829	31,097561	39,6341463	59,7560976	1,08510638	1,16666667	-39,9	-39,5	0,0128538	20,62	-24,329268	-0,6138462
>adi_vegetal-miR3693i	GGGCAAGAAUAACUAUGACU CUCUUAAGGUAGCCAAUGCC UCGUCAUCUAAUUAGUGACG CACAUGAGUGGAUGAACAAU AUUCCCACUGUUCCAGUAUUC ACUAUCUACAUGUAUUUCCU GGGCUUGCCUUGUAAAGAGG UGCUGCCUCCUCUGUCUAACA GUCAUUGCUCAAAGAUGGGU CUGACCCUUAAAGGGUACAG ACUUGCCAAUCCAUGGUCACC CAUAAAAAAAUAUAUUGCCU UGAGAGUCUACAAAAAUUCU UGAAA	269	18,9591078	29,3680297	22,6765799	28,6245353	41,6356877	57,9925651	0,97468354	0,83606557	-73,1	-55,2	0,00082643	47,87	-27,174721	-0,6526786
>adi_vegetal-miR11112	UCCUUCGGCAGCUCUGGAGU UUCUUUGAAAACUCAGCAGC AAGGUCAGCAGUUUAUGUGC AAACUUCCUCUGAGAUGAAG AAACUUGACAGCAUGUCUGA AAAG	105	22,8571429	28,5714286	20,952381	26,6666667	43,8095238	55,2380952	0,93333333	1,09090909	-31,5	-29,4	0,0838312	8,79	-30	-0,6847826
>adi_vegetal-miR5533	AUUAAUGUCCAUGUUUAAUG AAUCUUUUCUACAGCUCGUA CUUCGUGUUCAAGCCACAUCA CAGAAUGGAUACGAGAAGUU UGCCAGAAGCGUGAAGGGGU GAUUAUGCCAGUUCCUUGGU GUGAAGAGUUCAGCUUUCAC AUAAAGGACAUUUUC	157	22,2929936	27,388535	18,4713376	31,2101911	40,7643312	58,5987261	1,13953488	1,20689655	-35,7	-23,7	0,00100071	45,75	-22,738854	-0,5578125
>adi_vegetal-miR11454b	CCGCUUCCAUACCAAUGCUUG AUAAUUACACCUUUCAAUGU GGUGGUGAAGGCUAUCCGUU GUUGGUGGCAAAGUUUCAGU UUUCUGCUUUUUUUCGCAAA ACAUCCAGUAUCACAACUGA UCUGCAGUGCUUUCACGCAU UUUUGUACUCAUGUAAAGUG AGCAGAUGAAGGCUUCACAU GUCUUCGAAAUAUCAGAUGG UAAUGGCAGUUC	214	20,5607477	24,7663551	20,5607477	33,6448598	41,1214953	58,411215	1,35849057	1	-55,3	-50,1	0,00166107	34,2	-25,841121	-0,6284091
>adi_vegetal-miR10417	UAUCCACUGUCAUCUAGAGC UUUCUGAUAAAGAGGCGCUG AUUUUUUAAAUGAAGUUUCA UCGAUUGAAAUUUCAGACAG UCGUUUGUUGAUGGAUUUCG GAAUGUUUUCGAUGAUACGA GGUGGAUGGUUUGAUUUCCU GUUUACGUAGAGUGGGGUGU UUCCAGGUUUGGUGUAAGCC AUAUACUUCCCAUCGGACAG GUUGAGGGUGACAUCGAGGA AGUUUACGGUUUUCUUGUUG GCCUCGAUUGUAAUUUUCAG GCCAUAGCUACUGAAAAUAC	321	25,8566978	22,4299065	15,576324	35,8255452	41,4330218	58,2554517	1,59722222	1,66	-93,5	-75,4	8,26E-05	95,44	-29,127726	-0,7030075

	CGCACAGAUCUUUUUUGAUG AGCUCUGUUUGACGUGGUGA															
>adi_vegetal-miR4225	AGGCAAAUCGAAUGUGGUUU ACCGUUGUCUGUACUCAUAU CGACAACUAUAAGCGUCGUC ACAUUGCUCAAAAUUUGUUG UGGACUCACUCCACUGCGCCU CGUGAGUCUACAACAUUUUG AUCACUUCCAUGGCGCAAAUC GUUGGACAAACAACGCAGCU ACAUUCGAUUUGUUA	178	19,1011236	26,4044944	24,1573034	29,7752809	43,258427	56,1797753	1,12765957	0,79069767	-70,1	-70,1	0,0804931	9,32	-39,382022	-0,9103896
>adi_vegetal-miR8127	AAGAACAGUCACCUCUGCUU GUGGACCUUGACAAAACAAC AAGGGUUGUACCAUGGGUUG GUAUGGGCGGCCAUCACCGCC AAAAAUACAAGCCUUGCAGA CAGUUAAGAAUAAACCGGAA UGGUCUAAUUGUCCUUUGUA GAAUGGUUUAGCAGAAUGCG AAACGGUUUAUUAAAAACAU AAAUGGACAAGUCACAUUUA GGGAAAUGAAAUGCACAAAC AUGAAAUGGUUUAGACAAUU CAGAAACUGUGUAGAUACCC UUGGUGAAUUGAUUCAGUGA CAACACGAGUGGUUAAGUGU UUAA	306	22,875817	34,9673203	16,6666667	25,1633987	39,5424837	60,130719	0,71962617	1,37254902	-79,1	-64	0,00033587	59,06	-25,849673	-0,653719
>adi_vegetal-miR4348b	AUGGUGUUUUUAGCCAUUGC UGUGAUCUUCCAAUAGCUUU CUUCUUAGCCAUGGCAGGUC ACCUUUCAAUUGAGUUUUGC AAGGAGGCAGAAUAUAUUUU CUCGCGUACAAAAAAGUAAG UCAUCGUGCAAACAAUUAUC AAACGCUGUUCUUUCAGAGC CAGCGUAUUCCGGCUUACUU GAAUAAUUGUAUAUAUUACA GAAUUUUCUUGUUUGGCUGA AACCUUCAUAAGAAUUUGAC UAAUUUCCUUGCUAACUCCU UGUAAUGUAUUGGUUGAUAA CAUCACAUGCAUAUAGGAAA GAACACAGA	310	17,7419355	29,0322581	18,3870968	34,516129	36,1290323	63,5483871	1,18888889	0,96491228	-78,4	-65,5	0,00028935	66,75	-25,290323	-0,7
>adi_vegetal-miR893	GGUGGCAGGCUGCGUCAGAA AAGUUCAUACUUACCUGACG CGGGUAAGUGGUGUGGUGGC GUUCUAGAACGUGUCGACAC AAGAUUGUGUGGUAUAUCUU UUGGACGUUGGGACACUUGU GGUACCGUGAGUAACCUUGG UUUUUUGCGUUUUUAGCACG UUUAACAGGUGACCCUCCCAG GGACUUAUGCUGGGCAUCCU GCCCUA	208	29,8076923	19,2307692	20,1923077	30,2884615	50	49,5192308	1,575	1,47619048	-72,7	-45	0,00434945	57,79	-34,951923	-0,6990385
>adi_vegetal-miR5277	CUCUGGCUGGCGUGGGCCAU UUCGGGCAUCGCUUCUCGGCC UUUUGGCCAAGAUUUCUUUU GCUUCGUUGCAGGGAAAGUU ACAGAAGUGAUGUCUGAUGC UGAUGGGGAGAUGUUUGUUG ACGUGCCAGACCGGCCAAGGA AUGAUAUUGAAGUAACUGUG CCAAACGAAGAAUGUACCGA UGACGCAUCCUGGGCUGACA GAGUAGAGAACGGCGAGUCC	246	30,0813008	23,1707317	22,3577236	23,9837398	52,4390244	47,1544715	1,03508772	1,34545455	-78,1	-70,6	0,00016417	44,59	-31,747967	-0,6054264

	CACAUGGACCACGGAGCUCAACC															
>adi_vegetal-miR8011a-1	CAGCACUCUGACUGGCUUGGGCCAUUUCGGGCAUCGCUUCUCGGCCUUUUGGCUAAGUUUUCUUUUUGUUUCAUUGCAGAAAGUGCUUCCAGAAGUGAUGGAUCCUGAUUCAGAGAUGAGGUUAAUUGAUGUACCGGAAAAAUCAACAGAAGAUUUGGUGAUAACAGUGCCUACUGCAGAUCGUACCGAGAACGCAUCCCGAUCCUGGGCCGAGAGAACACAGAGUGAAG	231	25,974026	25,5411255	21,2121212	26,8398268	47,1861472	52,3809524	1,05084746	1,2244898	-73,7	-69,1	0,00457691	32,82	-31,904762	-0,6761468
>adi_vegetal-miR10435	CCUGAGUAAUUAUACUAAACAUUUCAUAAGAACUAUCUAACUUACAAAACAUACCUUCCAUUUUAGCGUCGGGUUAGAAAGAGAUGGAAAACUCUAGAUUGCGGGCUUUGGAUCUAGUAGAUCUCCCAGAGACUUGAAGCUUUUUGAGAGCUCUGGAAGUUCUUGACUCAAAAUUAGUUUUCAAUGAAAAUUAGUCUUC	199	18,0904523	32,160804	17,0854271	32,160804	35,1758794	64,321608	1	1,05882353	-42,8	-38,6	0,00882387	29,45	-21,507538	-0,6114286
>adi_vegetal-miR8553b-2	UCCAUUCGCUUAAGUUUCAGUCAGUUGUCAUACCUAAUGGAAUUAUUGCACAUCUCUAUGGGCCAGUGGGUAAGUUUACCAUUAAUCAUAUCCUUUUCUAGAGUUAAAUAAACACACCACAGUAAGCCAAUUAUAACAAACUGGUCUGCAAUUUCAUUCUUGCAUGAAUGAAAAAAGUAUUUUGGGCCGCCUGAUGCUGCGAAAGUUGGCAUACCGUACCCACGGUGCAAUGUAGGUUCUUGACUUUUUACAAAUCUGUUUUAAUAUAUUGCGAGGUCAAGAACUGAUUCAGAUAGGUGGGGAACGAUAAACUAUUACGUAAUUUA	328	18,902439	30,1829268	18,2926829	32,3170732	37,195122	62,5	1,07070707	1,03333333	-82,1	-78,8	6,36E-05	41,33	-25,030488	-0,6729508
>adi_vegetal-miR11121	GUUUAUCUUUGAUGUUCGUCAUCGACGUUCAAAAAUGCAAGAUAAUCCGUUGCUCCCUUUUUUAAGGGGGGUCUGUCACGAAAAAAGGCCUUCUGUAAAAUUACGAAAAUUAGUAUUAAGCGAGCUUAUUUAAGUCUAAUUGUCACCGUAAAAGGAUUUAAAAGCUCACGUUUUGAGGUUUAACCCUUCGGUUAUUGAUGGACUUUAAUUCCCCUCCGACGUAGUGCCAUAGUUUCUUUAGAAGCUAAACCUUUCAGUUCUACUGCAAAAGGCAGAUGAGAGAACGUUCGCGGAAACAAAGAUAUUU	308	19,8051948	29,5454545	18,1818182	32,1428571	37,987013	61,6883117	1,08791209	1,08928571	-73,6	-61,2	0,00019724	64,35	-23,896104	-0,6290598
>adi_vegetal-miR11466c	CUUUUGCAGGGUAUUAUUUCCUUUACAAACUAUGUGUUCUUUCGCGUCGGUCUUCACCUUAAUCUUAAUCGGUUUCAGUCGAUACAAAGCAAUUGUUCAUCCAUUGGGAUCCCAGAUGGAACUGGCUGCAUCAAAGAGAUUCAUUUUGUUCAUUUGGAUAAUUUCUUUUUUGUUCGUAAUA	227	17,6211454	23,3480176	19,8237885	38,7665198	37,4449339	62,1145374	1,66037736	0,88888889	-50,9	-30,3	0,00338036	52,05	-22,422907	-0,5988235

	CCUUACAUCCUAGUAUUGGA AGUGGACACUUCUACUCUGC AAUGU															
>adi_vegetal-miR8706b	CAAUUUUGUUCAUAAACAGG AGUAUAUCACUGUUGGAUUA AUGAGGUUUUUUUAGGUUUU CAUUUGAUGAAAUGUAAAAU GUGAAAGCUCACUGAAUUAU UCUUUGUUUUCCUUGGACUU GCAUAGAGUGUUUGGAGUGA GCACCAGAUAGCUCAGUUAA AUAAAAGUUUAGAUUGUUCG GAACCUUAGUAUGGAAUAUU GGCCCCAGGUCGUGGCAGUGC GGACCGAGCGCAGCGACCAAG GGCCCCAGUGCUCAGUGAGU AAAUUGUUCACCAUAAUGAC ACUCUGUUUCUGAGAGAAAA AGG	306	24,1830065	28,1045752	16,0130719	31,372549	40,1960784	59,4771242	1,11627907	1,51020408	-81,8	-58,1	6,73E-05	85,44	-26,732026	-0,6650407
>adi_vegetal-miR3948	UUAAACCGUUUGUGUUUGUA UGCAUCCAGGUCUUUUUUCG UGGUCUAUUUUUAUAGUUGU AAGGCUUCUCUGGGAUUUGU GGGGUGGUGGCGGUGGUGUU GGUGAGGGAGGAGGGGGGGG GGACAAUCUGCUUACAAACA CGCGCUGAAUUGUGGGGAUG ACCAAAUGCAUGAAAACGAA AAACAGUUGUU	192	33,3333333	21,3541667	13,0208333	31,7708333	46,3541667	53,125	1,48780488	2,56	-48,5	-45,2	0,0167899	22,84	-25,260417	-0,5449438
>adi_vegetal-miR8125-2	AGAUUGUACGCCUCUGCAAA CUGCUUUUGCAUUUGUUUUC ACAAUAGCCAUAAUUUAAGA GCAGACUCACUUGUUUAGGU UAUCAGGAAAGAAUGGGAUG AGUAAAAGUGAAAACUUUCC AGGAUUCACUAAACAAGUAA GCCUGCUUGCAGGUUAUCAC AGCCAUGGCUAUCUGGGCAU ACAAGUUCAAAAUCCAGCCA GUUGGCAGAUUGCAAACAAA GG	223	21,0762332	32,2869955	19,2825112	26,9058296	40,3587444	59,1928251	0,83333333	1,09302326	-65,2	-65	0,00712491	14,9	-29,237668	-0,7244444
>adi_vegetal-miR8125-1	UAAGAGCAGACUCACUUGUU UAGGUUAUCAUGCAGGAAAG AAUGGGAUGAGUAAAAGUGA AAAAUUUCCAGGAUUCACCA AACAAGUAAGCCUGCUCAUA	101	21,7821782	37,6237624	15,8415842	23,7623762	37,6237624	61,3861386	0,63157895	1,375	-27,3	-27,3	0,336243	4,88	-27,029703	-0,7184211
>adi_vegetal-miR8011a-2	AUGUAUGACUACAAAAUUAG ACAACGGUAGUCAGCUGUAC CCUGAUCACUGGGCUGGAAU UUGAUAUGUUGAGCCCAGUU AUAGUCAACAUACUUUGAGG UACAUUGUGAAGUGUUGCUU UUUGUUUGUUUGUUCUUUUU UUUGUUUUCCUUUUAUUUAU UUAUUUUUUUUCGCGGUUGU UGGCACUUUGGUUUGUUGUC AAGCUAAAUGUUUUGGCUAC GCUUGUUCGAAGGCCAAGCC UGAUGUAAACAUGGCUGCUA UUCAUCUAAAACGUGAAUUA GCCCGUUUAUAACUUGAAGC AUAUGA	307	20,8469055	22,8013029	15,6351792	40,3908795	36,4820847	63,1921824	1,77142857	1,33333333	-72,6	-56,5	7,39E-05	70,2	-23,648208	-0,6482143
>adi_vegetal-miR11124	AAGUGUCUCGUCUGCAUCUU GUGGACUUGGCUGGUUCUGA GAGACAGAAGGACACUCAUG CCGAGGGUGUGAGGCUAAAG	294	25,8503401	29,9319728	18,707483	25,170068	44,5578231	55,1020408	0,84090909	1,38181818	-82,4	-79,8	0,00195174	47,32	-28,027211	-0,6290076

	GUAGACAGACAGCCAUCACA UUAAUAAUAAUAAUAAUUGU UACUGUGUAAAAAACUGAAC UGCAGUUAUCAGGUUUUCAG CAUUUUCGUUGGCUUGCCUG ACACAUUGAAUUGGAAUUUG AAAAUGUUGGUUUUGAGGAG AGUACCUGGGGGAAAACCUC UCGAAGCAAGGAAGAGAACC AACAAACUCAACCCACAUGCC GCCGGGUCAGGG															
>adi_vegetal-miR1046-2	UUUGAUCAAUGAAAAGUCCA GAAAUAUGAAAAAUACUCAG CGGGUGCUUAGAGUGGGGGU AGGGGGAAUUAGGCUGACAA CGGGAACGUCACUUGAGGAC GGCGAGCUCGGUUCAAAUUU CCAAAGACGGUCAAAUUAGA AGAGGACCCAGACUAUUUCG CGAGCCCUACCGUCGUCAUCU GGUGCUCCCGUCCUGUAGCUA AAUCAGCCUAUUGUAGCACC AUUUGCAAUGAGUUAAAUUG CAUUAUUUUUGAAUGUUUGG AUUUACAUAUGGUCUCA	280	25	28,2142857	19,2857143	27,1428571	44,2857143	55,3571429	0,96202532	1,2962963	-79,2	-77,3	6,00E-05	48,35	-28,285714	-0,6387097
>adi_vegetal-miR825	ACAUCCAAGGGUAAAGAAAA AUAUGAUGAUGAUGAUGAUG AAACAAAUUCAUAAGAAUUC UGGUGAAAAAACAUACUUUC CAAAUCUGUAAGUGUCACAU CAGCACCAGCUUUCAGAAGA AGCUUGACGUGCUCAGCAUU UCCAUAAGAUGCACUCCAGU GAAGAGAUGUCAUCAGGUCA UUAUCGGAUUCAUCUGCUUC UCCCUUUGACAC	213	18,3098592	34,2723005	20,1877934	26,7605634	38,4976526	61,0328638	0,78082192	0,90697674	-52	-50,7	0,00836077	43,41	-24,413146	-0,6341463
>adi_vegetal-miR10994	UUUUCUGGUUAAGAAAUGGA CAAAGGCUCCAAGCAAAUGU UUAUCAUUUGCUAGUUGCUU UUGUCCCGUUCUUAAACUAG AUAU	85	17,6470588	27,0588235	16,4705882	37,6470588	34,1176471	64,7058824	1,39130435	1,07142857	-37,6	-36,7	0,208559	3,28	-44,235294	-1,2965517
>adi_vegetal-miR4241	UUCAACUAGAAGAUGACAUC AAAUCGAAGGAAGUAAUCUU AACUCUUUGGGAUUUUGCUG GCCAGCAUCUUUAUUAUGCU UCACAUUCCGUGUUUCUGUC UGGGCGAGCAGUUUACAUCU UGGUGUAUAAUCUCAGUAAC AACUUACUGGCAAUGGCAGA GCCUUGUGUCAGGCAAGGCA UCAUUGACAUUCCGCUGGAU AAUCCGAAUGAUGAAAGCAA CUUGGAUAAUUUGUUGUCAU GGCUAGUUUCA	252	21,8253968	26,5873016	19,047619	32,1428571	40,8730159	58,7301587	1,20895522	1,14583333	-63,7	-56,1	0,00019303	54,69	-25,277778	-0,6184466
>adi_vegetal-miR7504a	AUGUAUGAAACUGUGAUGAC ACGCCAUAGAUAUAUGUUUG CAUGAAUAAAAGAAAGUUAG GUAGACAGCAUCUGUACGAU UCAACGAGUUGAUCAUAUCC CAGGUUACCUCUCGAAAUUG UCGCGUGCACUUUUGCAUUCC GACAACCUCUCUCGAAACAGC UGUAUUCUUAACAGGAAAAA UUAACCUGCAGUAGCCUUCAC UAGUUUGAAGGCUGUGUUCA ACAAAAGUCGAUAAUAUUAU	273	19,7802198	32,2344322	19,7802198	27,8388278	39,5604396	60,0732601	0,86363636	1	-70,7	-66,3	0,00710905	25,91	-25,897436	-0,6546296

	CGCACUGACAGCGGAAAGUU GUCAUAGAA															
>adi_vegetal-miR5148c	UGUACAAUCAGCAACAAAAU UAGUUGACACAUAGUGUGUG AAAAGUGCAUUUUAAGAGUG AAAUACAACUAUGAUUUGCA UCAUGCUCUAAAAUUAUUGAG AAGACCCCCCUCCUCAUUCAA UGUUGCCAGUUUGUACCUAA AUAUCACAGGAAUGACGGUA CAACAUUGUUUGGGGAGAAG GGGGAUGAAUUGGACUACCU AAGAAGGCUAAAAGAUAGAA CCAAUGUGUAAUAGGGGGUA GAAAUGGUCAAUGUGUCACC AAUUUUGUCGCUGAUUGUGG G	283	23,3215548	33,2155477	15,5477032	27,5618375	38,869258	60,7773852	0,82978723	1,5	-88,2	-85,14	0,00115158	30,26	-31,166078	-0,8018182
>adi_vegetal-miR478e	AUUCAUCUUUCCUCAUUCAUC UUUGCAGCUUGAGUAUGGAU GGGCAUCCUGGACAAAACUG UAAUUAAUUUUGUGACGGUG AGUUGUGUUCCAUUAGACGG AGCACAGGUCGCCCUCUAAAC GCAUUAUUAUUACGAUUAUU AUAUUAUUAUGGAACACCAU CCAUACCCAAUGCAUCUGCAC AAUGACACUCAGACAAGACU GUCA	208	17,7884615	28,3653846	22,1153846	31,25	39,9038462	59,6153846	1,10169492	0,80434783	-58,8	-55	0,00424808	23,09	-28,269231	-0,7084337
>adi_vegetal-miR5183	CAUAUUUGGACAAAUUUGAG UAUUUGCUUGUAUGCUAAUG AGGGAGGUGAGUCCAAAAAC AAAGGAUUCCACGUAUCGCA CACAUCUCAAUUUUCACAGCU UUUUUCAGUGGAAAAAGGUG CGCAUUAUACACAGGUAAAU ACAGUACUUGCUGGGCAGCA GCAGCCCUUGUGAUGUCUAG AGCGCAACAUAGAUUUCAAA GCAUUGCAUAAUGCUUUAAC UGCUGGAAAGGAGGUUGCAC AAAUACUCAACAAAUGAUCG CACAUUAG	270	21,4814815	32,2222222	18,8888889	27,037037	40,3703704	59,2592593	0,83908046	1,1372549	-66,2	-63,4	0,00055457	50,45	-24,518519	-0,6073394
>adi_vegetal-miR12138	UUUAAAUAUGAGCUAUGCAG CUAUCCACCAUCUCUGUUUCA UUCUUCAUUAAUUUUGAUAA AGCUGCAAAAGUCAGCACUG GCAGAUGCUAGUACAAUAUG UCCUGGAUGGUGGUGCACUC UUUCAUCGCAUCCCUUGGCCU CGAGGAUUCCCAAAACAUAG GGAGAUAUGUGACAUGUCUU GUCAGUAUGUGACAGGGAAG UAUGGUGCUGCAGUUGUCAU CUUUGAU	230	22,173913	25,2173913	20	32,173913	42,173913	57,3913043	1,27586207	1,10869565	-69,4	-68,4	0,00041809	38,16	-30,173913	-0,7154639
>adi_vegetal-miR8553b-1	UGGUCUGCAAUUUCAUUCUU GCGUGAAUGAAAAAAGUAUU UUGGGCCGCCUGAUGCUGCG AAAGUUGGCAUACCGUACCC ACGGUGCAAUGUAGGUUCUU GACUUUUUACAAAUCUGUUU UAAUAUAUUGCGAGGUCAAG AACUGAUUCAGAUAG	156	23,0769231	26,2820513	17,3076923	32,6923077	40,3846154	58,974359	1,24390244	1,33333333	-41,9	-34,8	0,00487111	31,23	-26,858974	-0,6650794
>adi_vegetal-miR8011b	UUGCUUAUAUUUCAUAGCUG UGCUCAGCUUGUCCAAUACAC UACACUUGAUGGCAAAUUUU CAGUUUUUCUUCCAAUCUCCA	326	19,0184049	31,595092	17,791411	31,2883436	36,809816	62,8834356	0,99029126	1,06896552	-68,7	-67,8	4,99E-05	46,53	-21,07362	-0,5725

	AGCCGAUCACUUGCGCAAUU UAAUUCCAUGCAGGAUAGAA GAAUGAUAAACACUUCGCAU GCCUGAUGACUUGAAAUAAU CCAGAAAUGGUUGCAGAAAG GCUGAGUUUCAUUUUCACGA UUGUCAUUUUAAUAUCAAUG AAUUCAUUUUUCUCUCAAAA UAGGGAUGGGAAAUAGGAGU UCGUUGGUCAACGGAAGUAA GGCAGGUGUCAUAGUAAAAC AUGAGACAACAAAAUUUAAG GUC															
>adi_vegetal-miR169f	AUUUAUUUUGUUAAAAUCCU UUUUGACCUUGGCUCGGCCU UCGAUCAGGAAGAGCUGCCA AGCUUAAAACUAUCUCAAAA AAAGUAUUU	90	15,5555556	30	18,8888889	34,4444444	34,4444444	64,4444444	1,14814815	0,82352941	-21,3	-21,3	0,236688	9,92	-23,666667	-0,6870968
>adi_vegetal-miR10211b	GACAAAUACGAAACUUCUUU UCACUGCUUUCCCGCCUUACA AGGGGAGUUUAUCCAGGAAC UGAAUCUCUGAAUUACAGUU CUUUUCUUCAUGAAACUAAU AUUUCAGUGUCCAGAUUACU GAAGGAUAUCUCAAGCAAAG CGAUAAAUGUCGAAGUUUGA UCGCAUUGCACAAAACGCAU UUUCAAAAAUUUUAUAGGGG GGUAUGCCCCCGGACCCCCCU AGAGACUCGGGCCUUCGGCCC UUCAGUAUAUAGGGUUGCCC GCUUACUCUACCACGAGAACC CCUCUACUUCAAAACUUAAU GAAACCACUGAUACAAAUAA UUACUGUAUUUUCU	339	17,1091445	29,2035398	24,1887906	29,2035398	41,2979351	58,4070796	1	0,70731707	-82,6	-78,1	2,98E-05	59,63	-24,365782	-0,59
>adi_vegetal-miR2628	CACUCUGCCACAGGUUAUCCA CUGUGAUGAACAAAGUGAAA GACUGAAGAGUAAUGUAUGA UCUUGAUGGUCAAGCAAGAA ACAGGGAAUAAUGAACUGUG UAGAGUCUAGCUCACUCUGU ACUCCUUUCAGAGGGUGGCA GGGAUGACCUAGUGGUGAGA UCA	165	26,6666667	30,9090909	17,5757576	24,2424242	44,2424242	55,1515152	0,78431373	1,51724138	-53,3	-42	0,0527923	28,07	-32,30303	-0,730137
>adi_vegetal-miR11610	UUCCCCUUUUCCCGCGAUUAU CCUGUGUCGUUUGGCAUUGU GGAAAAUGCGCACAAACCUU CCUGGAAUCAUUACGACUUG CAUUUCUGGAGGGGACUUGA AAAUCACAAAAAGAGUCCAA GGUGGUCAUUUCAUGUCGUU GGCACAGCAAAAAAGGAAAG AGCAGUAAAAACAAAAAUAC AAGCCUUCGCAGCUGGCGGU UUUUUUCUGUCUGAGGGAGC UUCCAGAUAUGGUAAAUUUU AUGUUGCAAAGGAACGGCUA AGCUGCGAGGAGAUUAGGGC AG	284	25	28,8732394	19,3661972	26,4084507	44,3661972	55,2816901	0,91463415	1,29090909	-78,6	-58,8	0,00017379	55,42	-27,676056	-0,6238095
>adi_vegetal-miR8151	AUGAGCUGAGAAAGGUUCAG CUUGCGCUGGAUACAAGAAG ACACAAUGACAUGCUGCAAG CGUUGCAACAACAACAGCAGC AGCAAAUGCAGGCAUUCUCA AUGCUGUUCCAACAACCGCGA	164	23,1707317	32,9268293	23,7804878	19,5121951	46,9512195	52,4390244	0,59259259	0,97435897	-54,3	-48	0,0116724	26,86	-33,109756	-0,7051948

	GAGCAGCAACAGCGCCAGACU GAACUGUUUUUAAAGCUUUU															
>adi_vegetal-miR2950b	UGUUGAACAGUGUAUCACAU AUUGUUGAAUGUUGAAAUAU GCCAUUCAACAUGUUGCAUG GCAGUUGAACGUUGUUGAAC AGAAUAGAGCUUGAGUCUAU UCCUUUCAACAAGUUGCCGCU UGUUCACAGAUACAUUUAUG UUUAUUGCAGUGAGGGUGCC UCAUAUCUCUUGCACACAAA UUGUAAUCUUGAACAAAAAA GAUCACUUUAUUUAAAAGCA CCAUCAGCGCAUGCUGGUAU AAUUUACAGCUUCAAUAAAA UGGUCACUGUCAUGG	277	18,7725632	30,3249097	17,6895307	32,8519856	36,4620939	63,1768953	1,08333333	1,06122449	-75,9	-47,9	0,00029873	78,56	-27,400722	-0,7514851
>adi_vegetal-miR11285	UCUGAGGAAGAAGGAAUAAU CACCGGGUAGUCACAUUUAA AGAGAUGAUUGUUUAUGUUA AAGUGAAAUUUUUCGUUGCG GUAGCCGGCGUUUGUGGUUA AAUUACCUUGCUUAAGCAAU GAUGACAGAAACGGCUACUA AAACGUCACUUGAAAAUAAA UAUUUGGGAAAUAGUGAGUA UUUUGUGAUAAUUGCUUCUU CGUCGCA	208	23,0769231	31,25	12,9807692	32,2115385	36,0576923	63,4615385	1,03076923	1,77777778	-66,7	-66,4	0,0259085	14,79	-32,067308	-0,8893333
>adi_vegetal-miR8123	AAAAAAUUAACCUUUGCCAA CAUUCCAACAUUGCUCAAGUC UUAAUUGAGCACCUGGAGGU AACUUAGGGUGCUUACAAUU UGUCAGAACAAGCCAGCCGG AUUCCCCAAUCAGCAAUGCAU CACUGCUGCAAAAUUGAGAG CUGUUUGUGACCAAACUGAU UCUCCUCCAGGGGUGUAGGG AUGGCACAGGGGUGAGACCA CUCGCCUCCCACCAAUGUGGC CCAGGUUCGAUUUCCA	240	22,0833333	27,5	25,8333333	24,1666667	47,9166667	51,6666667	0,87878788	0,85483871	-74,2	-64,4	0,00094587	49,46	-30,916667	-0,6452174
>adi_vegetal-miR12172	CCCUUCCUUUGGUUGAAGGG AAGCUCACUGUUGUUUCAAG AGCACUGUCUGUGUCUUUUU CAGAGUCACUAUAACAGUGU ACCUGUUUGUUUUUAGGAAA CUAUGGUAAACAGGCAUCCU CAUUUGAAUUAGGCAGCUCA UCACCAAGAAAUUUGAUUUC UUUUUGUCUCAAAACAGAUU UUACUUUGUGGCCCUUUUGG GUUGACACUCACGUGACUGC UCCUUUCAAAAGGAAAAG	239	19,665272	24,6861925	20,083682	35,1464435	39,748954	59,832636	1,42372881	0,97916667	-62,4	-48,7	6,64E-05	55,55	-26,108787	-0,6568421
>adi_vegetal-miR8029	GGCCCAAGUCGCUUAUCUGU UGCAAAGUGAAAUUCUUGAG GAUGGGUGAGGUUGUCACCA GCACUUCUGCAAGGAACGUA AGACUGGCCAGCCAGAGCUU UCCUCAUGGAAGCUUUAUUU UGUUUCAGCAUUCCAGCCAU UUCUUUUUGUUUUUGAGCAA UGAUUUCUAGUUCAGUUUCC UCUCUGUCUUUCUGUGCACA GACAAUAGCGGUCUUGGUUC	221	22,6244344	20,361991	21,719457	34,841629	44,3438914	55,2036199	1,71111111	1,04166667	-59	-53,1	0,00032953	41,1	-26,696833	-0,6020408
>adi_vegetal-miR5374	AACUGAUCUGCAGUGCUUUC AGGCAUUUUUGUACUCAUGU AAAGUGAGCAGAUGAAGGCU UUACAUGUCUUCGAAAUGUC	103	23,3009709	26,2135922	16,5048544	33,0097087	39,8058252	59,223301	1,25925926	1,41176471	-31,5	-30,7	0,0430346	8,33	-30,582524	-0,7682927

	AGAUGGUAAUGGCAGUUCAUCU															
>adi_vegetal-miR11498c	CAUCAUUCACACUCAAAAUGAUGCAGUCCCUUUGUAGGUUGUUUUCCUAAUAUAUAUAUAUAUAUAUAAAUAUGUAUGUAUGAAACGAGUAGUCAUUCAUUUGUUUGUUUGUUAAGUGGUUUCCGCACUCGGGAUUUCCCUGAGAUGAUCUCACAGUUGUGUAACAAUUUCUGUAUGUAGUAUGAUUCGAGAGUAAAAUAAUUCCCAGAGCUACAAUGCGUUCCCAAGGUUUUGACAAAAUGACCAAACUUACUCGUUCCUGUGAAGGAAAGACUCAUUGUUAUGACUGCACCACUGAGAGUGAUUGCUG	309	19,0938511	28,802589	17,4757282	34,3042071	36,5695793	63,1067961	1,19101124	1,09259259	-75,9	-53,3	4,19E-05	76,14	-24,563107	-0,6716814
>adi_vegetal-miR8686	AAAACCCUGAUGUAACCAAAAUGGUUAAAGCUACUUAUAACUCAGUGAAAAAAAAAGCUUAGUUGGGAGUGAAAUUCAAGUGUACCCCCGCCCUAAGAGUGAAUGUCAGUAUCGAUCAUCGCUGCAAGCAUUGAAAAAUAGACUUUGCUCAAACUUUGCAGUUAGGAAGGAUAUUAUCUCCCAACAACCGCUACAUAGGUACUAUGACGAACAAUUUCGUACAGUCAGCGGUAGG	236	19,9152542	35,1694915	19,9152542	24,5762712	39,8305085	59,7457627	0,69879518	1	-54,9	-52,7	0,00095463	30,11	-23,262712	-0,5840426
>adi_vegetal-miR7984b	GGGGCAAGUUGUACACGAAAAUUUGGUAUUAAAUAGGUUGAUAAACUUCCAGCAUAGACAGAUAACGAAAUUCACAUUUCGGGCAUUAGCACUUCAUCAGAGAGAGUCAGGCUUCACCCCUCGCGAAGUGUUCAUCCCCGAAAUGUCGGCUUCUUAAUUUUUUCACAGUUGAAAUUUGACCCUAAUCAAUUUACUUGGUACCAAAUUUCCCGGACAAUUUAGCUUA	227	18,5022026	29,9559471	21,1453744	29,9559471	39,6475771	59,9118943	1	0,875	-60,6	-49,5	8,72E-05	32,45	-26,696035	-0,6733333
>adi_vegetal-miR11085	CCCUCAGAGGUGACUUGGCACUCAUGGUGAAGAACUCAUUGCAUUUCAUCUUUAAUAUCUCUAGUGAGAAACUUCACGAAACCAGAUCAUGGUGUCUUUUGAUGUGGAGUGGCUAUUCACUACUAUUCCUGUCAAGGAAACUGUCCAGGUUCUGCUUAUAAAGUUGGAGAGUGACCAUGAGACCAAGCCCAUUUGACCC	200	21,5	26,5	22	29,5	43,5	56	1,11320755	0,97727273	-57,7	-45,4	0,00540791	36,85	-28,85	-0,6632184
>adi_vegetal-miR169c	AUCUACAUUCUGGAGCUGCAGCAAUAAAGAUGUAUAUGCAAAGAACACGUUCAUGACGAUCGUCACAAAUGCCAAGAGAGAAGGUCUUCUGCCGUCGGUAGAAAAUUUGUAUCGAACGGAAGGAUGCAAAACUGGAAGGAACUUUUUUCAUUGUUGACGGAGAUAGCCAAGGAUCACUAGAACUGAUUCUUGGCAGUCUUUGCAGGCCAUUGAAUUUGCUGAAGGACCAACUGAGGAGUUCCACAAGGGAGCGUUUUAGGAGCAAUGUUUUUUUAAUAUA	311	23,7942122	31,1897106	16,3987138	28,2958199	40,192926	59,4855305	0,90721649	1,45098039	-92,4	-74,02	0,00055726	73,14	-29,710611	-0,7392

	UUUAUUGAUGACUUGUUUCA GCAUGUAAAA															
>adi_vegetal-miR1053-1	AGUCUAACUAUUGGUCAAAG UAAACAACAGUGACCAGUGA AAAGCGACGUUUGUUACACU CUACUUUGACAUUGCCCAGA GCUCGCGGAAACUAGCCAAUC ACCCGACAUGUUACAAUUUG UGAAAGCGAUGAGAGACAAA GGGGCCUGGAUUGUCAUCUG CAGGCCUUUGGGCCUCACGGC CAGGCCUGAGUUGCUCGAGG CAUGUUUGGAGCUAACCAGC GUUAACUUCCAUAGAAUUGU GUCAGCUUCGUUACUUCGUA ACCAAUGGUUAGCGA	278	24,4604317	26,9784173	23,0215827	25,1798561	47,4820144	52,1582734	0,93333333	1,0625	-86,2	-84,9	0,00117352	33,15	-31,007194	-0,6530303
>adi_vegetal-miR10519	CAUUUAACUCAGCCAGUGGA AAAUAACACUUUUUGAAAGA UUUGGCAAAAGUUGGAUUCC UGCUGUAAAACGAUUGAAAA GCUGAUGUUUUGAGAAUUAU CCCUUUGUCAGAGCUCUCAUG AAGAGUGAACUUAGCUGGAU AUGUUAAUAG	152	21,0526316	32,2368421	14,4736842	31,5789474	35,5263158	63,8157895	0,97959184	1,45454545	-32,2	-32,1	0,00311948	17,15	-21,184211	-0,5962963
>adi_vegetal-miR169q	AGGAGCCGUGCAGCACUCUG ACUGGCGUGGGCCAUUUCGG GCAUCGCUUCUCGGCCUUUUG GCUAAGAUCAAGUGUUCUUG UAUCUUGCCAUUAGGAUUGU UAGGUUAUUUUCUUCGCGUC CUGUGCUAAGUACCCGCCGGG GGGGAACGCCAUGGAGUCUC CUCGUGUGAGUAGCGAUUCU UCACACGCUAUCGAGGCCAGU GCUGACGUCUUGG	217	29,4930876	15,6682028	24,8847926	29,4930876	54,3778802	45,1612903	1,88235294	1,18518519	-75,7	-67,2	0,00111731	55,52	-34,884793	-0,6415254
>adi_vegetal-miR7698	GUCCAACAAAUAGAGUAAGC ACACUACUUAAAACAUUGGU AGAGCGAGGACCUAAGUCGG GGUGUUAUAUUCCUAACUUU CCCUUUUUCAUCAAAGUUUU CUUAGUCCUCUCAGUUUUAU CCCAUUUUCUAGGAAAGCUU AUUUUCUUCUAUUUGUUGUU C	162	15,4320988	25,308642	20,3703704	38,2716049	35,8024691	63,5802469	1,51219512	0,75757576	-39	-26,74	0,0162097	25,44	-24,074074	-0,6724138
>adi_vegetal-miR1875	GUAUCUCACCCUUUAUCCUUC AUGUGUAGAAUUACAAGAGC CUUUAAGUUCUUGGAUAGAU UGCUUGGACAUGUACCUCAG GAGCAUUUAUCUUUCCUUUG AGGCUUCUUCCUUGACACCUU UGUUUGUGUGUUUGCAUUGA AAAGGGAGUGAAGGGCAAUG GAGAUAGAAAGGAAAACAAG GGAGGUUCUCCAUUUGAAGA AGAAACAGGUGAAGAGGU	221	24,8868778	27,60181	15,8371041	31,2217195	40,7239819	58,8235294	1,13114754	1,57142857	-61,9	-56	0,00157267	31,48	-28,00905	-0,6877778
>adi_vegetal-miR11970-1	UCAGCCGAUUCGUUUCAUUG CUGAAGAAACCAGUUCAGAA GUGUUCCUUUGUGGAUGCAA GCAAACAAGUUCUCCUCCAUU UUGUGAUGGAGGAAGAAACC AGCUCAGAAGUGUUAUUAUG UGGCUGUAAGUAAACAAGUU UGCCUCCAUUUUGUGAUGGA AUACAUGUGUCUGAACAAGU CCAGUCAGCUGAGAUCAGUC AAUGAAUGAAGAGGCACA	220	23,6363636	29,5454545	18,1818182	28,1818182	41,8181818	57,7272727	0,95384615	1,3	-70,2	-69,8	0,00212867	17,13	-31,909091	-0,7630435

>adi_vegetal-miR1046-1	ACAGUAAUUCAGAUCUAAGG AACAAAAAGUAAGGUUCACA GUAACACUGUAAUGUUACUG UGUGCUUGUGUGUGCUUGUG UGUGUGUGUGUGUGUGUGUG GUUCUGGCAAGGGUAAGCCC UGCUGUCGUGAAUGCACGUG UCACAGGGCUCAAAUUUAAU UUUUGGAUCACUAACCCUUC AGGAUAGUAGACAUAUUUUU CACUAACUAAAUUUUAGUCU CCAAGAUCACAACUUACAAU	241	22,406639	27,3858921	17,0124481	32,780083	39,4190871	60,1659751	1,1969697	1,31707317	-67,2	-64,2	0,00058673	31,56	-27,883817	-0,7073684
>adi_vegetal-miR6145b	ACUGUUGUUCAAAAGGCGGG UAGCACUAGCCAUUGGCCAA AUUAAUCGUUACCCAUUUGA AAACUGUACGUAUCCACUUA CUAGUGAUUAAUUUUAUGUA UCAGCUAGAUAGUGCUAUCC AACCGUUGAACUACGCA	138	18,115942	29,7101449	21,0144928	30,4347826	39,1304348	60,1449275	1,02439024	0,86206897	-35,1	-33,7	0,0437589	23,2	-25,434783	-0,65
>adi_vegetal-miR11084	ACACUGAUACUGACAUUCUG CAGUGCCAAGAUUUUGAAAA UGCGGAGAAGAAGGAUAUCA GCUCUUUACAAAAGGAAGAU UUUGAAGAUUUCUGGAUCCC CGUUUGGCAACAUAAACAUG AAGAGGACUUAGGCAAUGCA GAUGGAGUAUUAGAAA	157	23,566879	35,6687898	15,2866242	24,8407643	38,8535032	60,5095541	0,69642857	1,54166667	-39,3	-34,7	0,00402224	30,47	-25,031847	-0,6442623
>adi_vegetal-miR1070	GAGAACUGAAAAAGAGCAUU UUUUACUGUGUGUGUGUGUG UGUGUGUGUGAUGCCUUAAA UAGGACAAAUGCGAGUUUCG UCAUAGUAAAACUUGUAUUA AAAAUGUUUAUGACGAUACU UCUUUUACUGGUUCAUUUUU GGUGGCAAAUCAUUUUUAAG GUAUCUUGUCUUUUGACAAA GGACAUAGGGACUCCCAUCCC UGAAAUUGCAAACGACGUUA UUCCACUUUCGGUUAUGAAA GUCCAGUAAAGCACAAUCCUC AUUUUCAUUGUU	275	20	28	15,6363636	36	35,6363636	64	1,28571429	1,27906977	-59,6	-56,7	1,56E-05	45,08	-21,672727	-0,6081633
>adi_vegetal-miR5086	CCGAGCCACAUUGGUGGAAG GCGUGUAUUCUCACCACUGU GCCAACCCUGCUCUCCUAUUU GCAGAGCAAGUAAUACUAAA ACUAUGGAAUCAUCAUAUUG UGAUAAUUAUUGUCCUUAUA AUUGCACUUUAAGUGUUUUC AACCGUUAGGGCAACCAUAA CGGUAACCAUGACACUAACUC AUAAUUGUGAUCAAUUUAUA GUCAUAUUAUCAUAGUGACC AUCAUAACCAUGAAUACAAU AUGAUCGCCAAAGAAAUCUC AGAGUGGUGAUGCAUGCCUU CCCCUGUGACUGUA	297	17,1717172	30,6397306	21,8855219	29,96633	39,0572391	60,6060606	0,97802198	0,78461538	-88,2	-80,1	0,00180869	50,25	-29,69697	-0,7603448
>adi_vegetal-miR1520b	CUGACAGUCAGCAGUUAGUC UUGUUAAUCAUUUUCAACGU UUUCUGUCAAUUAAAUAACU CUUUCGUGUACUCAUGUAAG AGUGACAUUCGUUUGUUUGA AUAACAAGGAAAGGGCUACU GUUUG	126	19,047619	26,984127	15,8730159	37,3015873	34,9206349	64,2857143	1,38235294	1,2	-32,7	-32,7	0,0568944	6,22	-25,952381	-0,7431818
>adi_vegetal-miR1520b	CUGACAGUCAGCAGUUAGUC UUGUUAAUCAUUUUCAACGU UUUCUGUCAAUUAAAUAACU	124	18,5483871	27,4193548	16,1290323	37,9032258	34,6774194	65,3225806	1,38235294	1,15	-32,7	-32,7	0,0568944	6,22	-26,370968	-0,7604651

	CUUUCGUGUACUCAUGUAAG AGUGACAUUCGUUUGUUUGA AUAACAAGGAAAGGGCUACU GUUUG															
>epa_animal-miR-2704	UGACCCCCUUCCCACUAAUACAAUG UUGUGUGGCUUUCGUUUCAUUGG UUGCCCAUUCAUUAACCCCUGCAUG CAACAUUGACGUGGGAGGGAGGGA GG	100	25	20	25	29	50	49	1,45	1	-37,6	-37,6	0,166649	6,57	-37,6	-0,752
>epa_animal-miR-10770	UGUGUUUUCGUAGCGUUGUUUAU UGUUCCCUGUCCUCAAGGAAAUGA UAAACUAUACAAAAACGCUGCGAAA ACGUU	78	19,2307692	28,2051282	17,9487179	33,3333333	37,1794872	61,5384615	1,18181818	1,07142857	-29,9	-29,9	0,179099	5,58	-38,333333	-1,0310345
>epa_vegetal-miR10437	AUACUCAAAUGACUUAUUUGAAGA CGCAAAAAGGUCGUGACAAGAUCU GAUUAGCCAAACUGAAUUGUUUUG UCAAAGAAAAAUUGAGCUUGAAGG AUUAAAUGGCCUUUGCUUCCAUGU UGUAGGUCGCUGGGUGAAACUUGA UGUCUUCCAAGCGCCAAAAGUUUU UUUCCAACAUAUAUUGUGGAAAAU GCAGCCAGUAGGAGUAUACAGUGC UCGUAAAAUGAGGCAUCUUAAGAG G	242	22,7272727	32,231405	15,7024793	28,9256198	38,4297521	61,1570248	0,8974359	1,44736842	-58,3	-44,8	0,00109021	44,6	-24,090909	-0,6268817
>epa_vegetal-miR10430	CGGUCAACCUCUAUUAAGCGGUCA GUCAUGAAUUCCAUGUAGUACUAC UGCAAAUGUGACCUUUGUAAAACG GUACACCUCUGUUAAGCGGUCACC UGGUCUACCCUCAAGUUGACCGCUC AAUAGAGGUUUGAUGG	138	21,7391304	25,3623188	23,9130435	28,2608696	45,6521739	53,6231884	1,11428571	0,90909091	-49,4	-47,2	0,00213461	12,14	-35,797101	-0,784127
>epa_vegetal-miR4228	CGAGUGUGAUGUGAAUAUUUCUGG AGGUGGUAAAAAGUUUUCCUCGGC GGAUAACUGCCACUUCCAGGCUUAC AUAAUCAUGAACGCUGUCGUGUAG GUAUACAAUAGCUUUUGCUAGUUC GCAAAGUACUUCAUAUCAUACGGU	146	23,2876712	26,0273973	18,4931507	31,5068493	41,7808219	57,5342466	1,21052632	1,25925926	-50,5	-47,6	0,0119363	19,58	-34,589041	-0,8278689
>epa_vegetal-miR827	UCAUAGGCUUGUCCCAUCAAAUAG UGUGUCCUGACAGAAACUGCAAAU CAUCCUUGAUAUCCUUUGUUGAUG GUUACCUAUUUGAUGAGGAUUCAA GCAUACUA	105	18,0952381	27,6190476	20	33,3333333	38,0952381	60,952381	1,20689655	0,9047619	-29,5	-28,2	0,0830642	10,03	-28,095238	-0,7375
>epa_vegetal-miR2084	CAGAAGCAACCACAAACUACAAAGA CAUCCAGUAUGUCUGGGAGGUGAG GAUAGUUAAAAUUAUGUUACUUCC UAUUAUAAUAUUAUCCCUUUUGAC AACCACAAUGACAUCACCCCAUAAC AUCUGCUGCAUUGUUGGAUUCUGG AUUCCACUGUUUUAUCAGAGUUGU AUUCCAUUGACUCAGAUUCUGAAU UCCAAGUGCCUGGAUUCCAGACARA UUAAAUUUUCUUUCACAUUCUGGA UUCUGUGUCAUGGGUUGAUUGAC	267	16,8539326	28,4644195	20,5992509	33,3333333	37,4531835	61,7977528	1,17105263	0,81818182	-61,6	-61,6	0,00152737	27,72	-23,071161	-0,616
>epa_vegetal-miR9751	UUCAGAAUUGCAUCAAAUUUUAAA CCUUUGGGAAUUUUUGAGUUCUUA GCCAGUWAGCUUAAACCAAUGCUG UCAGCGUCAAGUUGGGUUUUCUCC UCAAAACAGUGACGCUGAUAACAG GUAUGACUGACACUUUUUGGCAGG AAUCCCAAAAGGUAUAAUUUGGUG CAAUACUUUG	179	20,1117318	28,4916201	17,877095	32,4022346	37,9888268	60,8938547	1,1372549	1,125	-58,6	-53,2	0,00402094	23,3	-32,73743	-0,8617647
>epa_vegetal-miR7486e	CUUACAGCACAGAAAAAACAAAUAC UUCGAGUAGAGCUUGAUGACUGGG	230	25,2173913	31,7391304	13,0434783	29,5652174	38,2608696	61,3043478	0,93150685	1,93333333	-55,3	-28,7	0,00140236	61,71	-24,043478	-0,6284091

	AAGGAAAUGGCGUAUAUGCCAAGU AUGAUAGUUUUAGUAUUGGUGAA GAGUCCGAUAAAUACAGGCUCAACC UGGGCUCAUAUUCAGGUAAAUUUG GAAGGCUUGGAAGUGGUCAAAUCU AAAUACAAAGGGUGACAAACGGUA AAUUUUGUUGAAGUUGUUGCUGU UUGUUGCUGUUUU														
>epa_vegetal-miR168a	AAUCCCGUUCCCAGAACCUUUAUCA CAUCGCUUGGUGUAAGGCGGGAUA UAACGCGACCGUCCCCAAACGCAGA GAUAAGGGCCUGGGAACGAGGGUG	99	28,2828283	26,2626263	26,2626263	18,1818182	54,5454545	44,4444444	0,69230769	1,07692308	-41,7	-40,7	0,279225	10,45	-42,121212	-0,7722222
>epa_vegetal-miR166a	ACCUGACUCUGAGAAUCAGUCCGUC GCUAUUGAUGCCAUGCAGAAAUGC AUUGCUGAUAUUCGACAUUGGAUG ACUUCUAAUCGACUCAAGCUGAAU GACGACAGGACUGAAAUCAUUGUC AUUG	126	21,4285714	28,5714286	21,4285714	27,7777778	42,8571429	56,3492063	0,97222222	1	-38,2	-37,9	0,0932967	10,87	-30,31746	-0,7074074
>epa_vegetal-miR396b	ACAUCAAGGACGUUCGUGGACAAU GGACUCCGUGAUGUCACUUCGAUU AAUUUUUUUUUGGGAAAUACGCGA UGACAUACACUUGCAAAAAAGCGAU AAAAAUGGAGGUCACCAUCUUUGU UUUGCGUGAUGCAAUUUCGUGACA ACUACCGGUUUUGACAUGCGCAGA AAACGUGCGCUGUAGCAAUGCCCAC GAACGUCAUGACAU	209	22,4880383	29,1866029	20,5741627	27,2727273	43,062201	56,4593301	0,93442623	1,09302326	-58,5	-43,3	0,00057627	51,5	-27,990431	-0,65
>epa_vegetal-miR7504m	AUUUCUUUUUCCACCUCCUGCUAC GAAGAAGGGGGUGAAAGAGUUGAA UAUUUCAUUUGGUUUAAAAAAACU CGGUGAUACCGUAAUAAGGGGGGU AUGGGGGUCUUCCCCCAGAAAAGU UUGAAAUAAGAACUCUCUUAGACA UGCGAUUUUCAGCAUUUUGAGGGG CAUCUCAUGCUACGAAGAAUGGAG UGGAAGAGGAUGG	206	26,6990291	29,1262136	15,5339806	28,1553398	42,2330097	57,2815534	0,96666667	1,71875	-63,5	-57,9	0,0231941	20,41	-30,825243	-0,7298851
>epa_vegetal-miR5645c	GAUUUUAAAAUUAAUUGCUUGAUA GCAAGUGAGUUGAUUGGAUCAUGU UUACCUGGCUAGCCAGUGUUUCCA GGGUAUUCGUCUUUUCUCGGAUGC GUUCCUCUAUUGUUGAUGUCCUUG UUACGUUACUGUUUUGGUCAAGCA CAGCCAUACCUGAGGUGAGUUAUU AACAGUUUGAUAUCAUUUAACGAC AUGAUUUGCUAUCUUAUGCAAUUA UAUAAUAAACUA	229	19,650655	24,8908297	16,1572052	38,8646288	35,8078603	63,7554585	1,56140351	1,21621622	-57,7	-55	0,0217438	33,61	-25,196507	-0,7036585
>epa_vegetal-miR2599	GGAUUCCCGUUAGCAAGGAAUCUA CGUAGUUUACACACGUUUAAAUUU CCUUAUGAGUUUCUGGUGAUACGC AUUACCAGUUUAUUGUAAAUACGU AAGAAAUCUUAAGCUACACGUUUC UGGUGAUACGCAUUACCAGUUUAU UGUAAAUACGUAAGACAUCUUAAG CUACACGGAAAAUA	183	17,4863388	31,6939891	17,4863388	32,7868852	34,9726776	64,4808743	1,03448276	1	-46,1	-45,2	0,00513586	32,18	-25,191257	-0,7203125
>epa_vegetal-miR11078g	GCAGUACGAAUAUUCAGGAUUCCC GUUAGCAAGGAAUCUACGUAGUUU ACACACGUUUAAAUUUCCUUAUGA GUUUCUGGUGAUACGCAUUACCAG UUUAUUGUAAAUACGUAAGAAAUC UUAAGCUACACGUUUCUGGUGAUA CGCAUUACCAGUUUAUUGUAAAUA CGUAAGACAUCUUAAGCUACACGGA	333	18,018018	33,9339339	17,4174174	30,3303303	35,4354354	64,2642643	0,89380531	1,03448276	-80	-77	2,35E-05	53,09	-24,024024	-0,6779661

	AAAUAUAUGGAUACGUAGUAAUAC GAAUAUUCCACUGUACGGAACGCAA AAAAGAACAGAAAUAUAGGGUAUA UGCCUACAUAAAAAUUGUCCAUUCU GAUUGGCUGACGAACCGUGAAUCU UGUCAUAAUUCGUACAAU															
>epa_vegetal-miR1515b	UUCCAGUGAGUCCAAAUUCCAUAU UUUGGUUGAACGAAGACUCAGAAU UGAAGACGAGGCUUAGGGGAACAA AAUAAUUUUGUAUUGUUUUUCCG GAGCUCCUCUUCAUUCUUCAUUUU GCGUGCUUAGUCAUCAUCCAAAUU AUCAAAUAUCGGCUAUUGUAC	165	18,1818182	27,2727273	18,7878788	35,1515152	36,969697	62,4242424	1,28888889	0,96774194	-39	-37	0,00304117	24,38	-23,636364	-0,6393443
>epa_vegetal-miR11289-2	UGCUUCAAUGCUGGCGAGUACUUA AUAGUUAAUACUGAUAGACGGGRA CUGGAGUUAUCGUUCGUACUCGCC AUGAUUGAAGUAUCUCUAGAGCCC GUCUAUUAACUAUUAAUUUAAGCU GCUCAACUGAAUUCAAAUG	140	20	27,8571429	18,5714286	32,1428571	38,5714286	60	1,15384615	1,07692308	-42,6	-42,6	0,0680957	9,92	-30,428571	-0,7888889
>epa_vegetal-miR11289-1	AAAAACAACAAAGUUUUCUUAAUU AUUCAACCUCUGUUCAUAACAUUU CGUGACGCAUGCUUCAAUGCUGGC GAGUACUUAAUAGUUAAUACUGAU AGACGGGRACUGGAGUUAUCGUUC GUACUCGCCAUGAUUGAAGUAUCU CUAGAGCCCGUCUAUUAACUAUUA AUUUAAGCUGCUCAACUGAAUUCA AAUGAUGUAUUUUUGUGCAUAAAU GCUAUUUGAUCUUUACUCUAUAGU GCCGAGCAAGCCACCACAGAAUGUA ACUGCCAGAUACUUAGGAUCAAACA GUGUUGUUGUC	302	17,5496689	29,8013245	19,205298	32,781457	36,7549669	62,5827815	1,1	0,9137931	-77,2	-74	0,00030667	43,59	-25,562914	-0,6954955
>epa_vegetal-miR8604	UUAAAUUAUAAUGGGCGAUUUCCA CUAAAUGAUCACAUGAUCUAAUCCA CCAUUGUGGCUGGUCUCGCGACUA CUUUUCGGUAUAACAAAAAUGUAA ACAAAGAGCUGCGACCAGCCACAAU GGCGGAUUAGAUCACGUGAUCACU UAGUGCAAAUCGCCCAUUAUUGAU UCCA	175	18,2857143	31,4285714	22,2857143	27,4285714	40,5714286	58,8571429	0,87272727	0,82051282	-93,7	-93,2	0,0404604	11,55	-53,542857	-1,3197183
>epa_vegetal-miR408	UCGUCCACGUUUUGUAAUGUUCUC UGUCCUCAAAGAAAUGAAAAAUAA UACGAAAACGCUACAAAAAUAUUAG UCUUUGUUCACACUGAUGUGUUUU CGUAGCGUUGUUUAUUGUUCCCUG UCCUCAAGGAAAUGAUAAACUAUAC AAAAACGCUGCGAAAA	163	15,9509202	33,1288344	18,404908	31,9018405	34,3558282	65,0306748	0,96296296	0,86666667	-37,5	-29,7	0,00236712	39,99	-23,006135	-0,6696429
>epa_vegetal-miR8126-2	GGCUUUUCAGUAUUUUUACUGACA AGCUCAAACCGGUUUUUCAGAGCG AGUUUGCAACGAUCAUCGGCGGAC GGCAAACUUGCAGACAGACCAGGGC CACAAAUCCUAAGAUUUCUACAGU UUUCCAUUCUUAUCUCGAUUAGAA AUAUCAUCUAUGAAGAAAAGACUU CGAAAGGUUGUUACUGAAAAAUUG AAAACAA	201	18,9054726	32,8358209	19,9004975	27,8606965	38,8059701	60,6965174	0,84848485	0,95	-48,2	-46,6	0,00074173	32,25	-23,9801	-0,6179487
>epa_vegetal-miR7804	UAUUUACACACUCUGUAAAUAUCA UGUAAUUGAAUAGAGCUUUUCCCC CGAAUUCGCCUGAAUAAACACGAAA CAAUGUCUCGACUUGAGACCAUUC UUCGAUGAUCAUCCAAGCGAAUUC GGGAAAGGUCUGACAUUAUAUUUU	172	16,2790698	31,3953488	21,5116279	30,2325581	37,7906977	61,627907	0,96296296	0,75675676	-46,8	-44,5	0,00208931	22,81	-27,209302	-0,72

	CAGCAUAUUAACAGGGUUUCUAAC GC															
>epa_vegetal-miR8177	CCAAAUACUGCUGUGUGAUGGUGU GUGAUAAUCUGUAUUAGUAGAGGC UGUACUACAGCAAUCAUCAGGAACU UCUCAGUCUGGUGAUGCUGUACAU GUGUAGUACAGUGAAAGUUUGAUU CUACUAAUAUUAUUCACCAUCAAAC CGCAGUAUUUGG	159	22,0125786	27,672956	16,9811321	32,7044025	38,9937107	60,3773585	1,18181818	1,2962963	-66,5	-64,8	0,0065348	12,91	-41,823899	-1,0725806
>epa_vegetal-miR11415	CAUACAACUUUGAAAUCAUGUGAA AGUUGCUUUUUGUGACGAGAGGCC UUCUGGGAAGGCUCUCGUCAUAAU GUCAUCGUGUAUGAGUGAUGGAAC CGUAACCAUUCCACGUGACCGUCGU CAAGGAGAUCUCUUGUGUCAGCGG UAUCGAAUUAUAUUACUGUAGCUU UUCUGACUCGACUCGAUUUCGAAG UUUAGUUGUAUAGUAAACUUCUUU UAAACAAUGAAUACAAACUCUUUU ACGUGGCAAGAGCUAGGUACAACU UUUUAUGCAUUUGUAAGUUUGUU UU	291	20,9621993	26,1168385	17,5257732	35,0515464	38,4879725	61,1683849	1,34210526	1,19607843	-81,7	-80,5	0,00087434	42,33	-28,075601	-0,7294643
>epa_vegetal-miR168	CACCCUCGUUCCCAGGCCCUUAUCU CUGCGUUUGGGGACGGUCGCGUUA UAUCCCGCCUUACACCAAGCGAUGU GAUAAAGGUUCUGGGAACGGGAUU	99	26,2626263	18,1818182	28,2828283	26,2626263	54,5454545	44,4444444	1,44444444	0,92857143	-42,2	-37,6	0,0675215	11,87	-42,626263	-0,7814815
>epa_vegetal-miR3436	GCGAUUGUUGAAGGUAGGGGAAAU AUGUUUACACUGUCUGACAUACAA AGUCAGUUCACUUUGGUGUUUGCC UCGUUUGAAAAUGGAGACUAAAUG GAGUCAAUGGUUACUAGACUCUCC CAGUAUAAAUCAGUCAAUAUCUCU AAUCAACUAGCAAAUAUCAUGGUU CCCUCUCCAUUUGACAAUUGC	190	19,4736842	29,4736842	18,9473684	31,5789474	38,4210526	61,0526316	1,07142857	1,02777778	-49,3	-48	0,00176193	20,27	-25,947368	-0,6753425
>epa_vegetal-miR822	GAUAUUCGUUGUAUCGCGACCCGC CGUUUGAAAAGUUCGUUUUGAUU UGGUCUUUUGUGGACCGUCAAUCA ACUAGUGGGCGGAGUUAUGUAAUG GUUAGCCGCUGACCGGUGGGCUUU UGUGCAAAUGCUUUCGCUCGUUGA CGAGAAAAAUAUAAGCUUAAGCUU AAUUCAUGAAAUCAUGACGAAAAG UUUUCCGAAGGAACUACGCUGGAG GGUUGUUUUUAUGCUUCGAGAAG GUAAAACAACGUCCGAAAUUGCACA GACGCUGCAUGUUGGUAAAACGUU UGUCAAAACGAUCAAACGCUUAUUC GAUACAACUAAUUGU	328	24,0853659	27,4390244	17,6829268	30,4878049	41,7682927	57,9268293	1,11111111	1,36206897	-92,1	-84,5	2,40E-05	42,79	-28,079268	-0,6722628
>epa_vegetal-miR7747	CCCAUUUAUUCCAUUCAGAUCAGU UCAGGAGRCAACGUGGUGGUCACA AAAUGUAUCGUUCUAUAGCAGAUC UUUUGAAAGAUAAGGUUUGUUAAA GACUGCUGUGAAUGAGACCGUUUC UGUAAUGCAUAUCUUGCUUCUAUU UAAAUGUCAUUUAGAUUAAUACAA AUUUGAUUUUGUGUACAGAAUCUU UAUGCCAAGAUGCACCAGCGAUUU UCCUGGAUCCUGAAAGCUUGUGGU UGUCGUAUUUCAGAAAAAUUACUU GAAGGACCACCGCAGGUGAACAGCC AUGUUUUUAUCAAGCUCAUUGAAC	341	19,6480938	29,6187683	17,0087977	33,1378299	36,6568915	62,7565982	1,11881188	1,15517241	-89,9	-85,2	0,00029839	44,88	-26,363636	-0,7192

	AAAACAGACUGAUUGGGAAUUAAU CUG															
>epa_vegetal-miR8126-1	AGCUUUUCAGUAUUUUUACUGACA AGCUCAAACCGGUUUUUCAGAGCG AGUUUGCAACGAUCAUCGGCGGAC GGCAAACUUGCAGACAGACCAGGG UCACAAAUCCUAAGAUUCACUAGU UUUCACAACUAUUAUCUCGAUUAG AAAUAUCUAUGAAGAAAAGACUUC GAAAGGUUGUUACUGAAAAAUUGA AAACAA	199	18,5929648	34,6733668	19,0954774	27,1356784	37,6884422	61,8090452	0,7826087	0,97368421	-52	-52	0,0128793	17,96	-26,130653	-0,6933333
>epa_vegetal-miR2929	AAAUGAUUGGCAUAGUGUCAAUUC UUUGUCAAUUUUUGCCCAUGAUUU AUUAUUUUUUGUGUGUCGUGUAA AUGCAUGGGCGGAGAGGAAUUGUA AUUGCCUUGUCACUUUGCAUUGGG CAGAUACUCAAGGGUGUUUGAGAA AUGUUUCUGAUCAUCCAUUGAAUU CAAUUGCAUUUGAUUUGUUGAAUU UUGGAAUCACUAAGUGAUUUGCAU UGAAGCUAUAAAAGAGUAUUAUUA GUGAUAAACAAAGCAUUGCACUGCC AUUCAAUA	273	20,8791209	28,2051282	12,8205128	37,7289377	33,6996337	65,9340659	1,33766234	1,62857143	-74,4	-62,41	0,00015387	52,58	-27,252747	-0,8086957
>epa_vegetal-miR2934	CGGCUUUCACUUUCCAUGCUACCCU CGACAGUGUACUAUGCCCACUCUCU UUCUGCAAAAGGCUUGGUCACUGU UCAAGAAGGUGGCUGGAAAUGACA GAGA	103	22,3300971	23,3009709	26,2135922	27,184466	48,5436893	50,4854369	1,16666667	0,85185185	-36,4	-36,4	0,266087	5,26	-35,339806	-0,728
>epa_vegetal-miR2611	GGAAUGCAUUUGGUAUCCCWCAGC AUGUGUGAAUUUACAUGUUUUUA UAAGUUUCCUGUGUAAAUUUAUAG UGUAUUUGUCAGUAUUAGCUGAG GAAAACCAAAUGCAUCAU	113	19,4690265	28,3185841	13,2743363	37,1681416	32,7433628	65,4867257	1,3125	1,46666667	-32,5	-31,6	0,022755	21,55	-28,761062	-0,8783784
>epa_vegetal-miR6235	AGCUUGACUAAAUAAAUUCCCCAAG GGAAGAACUUUGCUCUCGUUURUA GAGAGACAGCUGAACUGUACAGGA AUCUCGGCAAGAUUUGAAUAUGAU GUCCACACUGGGGCCGUUUGGGAA UGAAGCCAAGAAAAAAAAUACUGUU GCAUCGUUUUUAUCAGAGUCCCAU UGGGAUCAUGUUUAAGCCAUAGUU AGAAUCACGAUGGAUGAAGGACAG UGAAAAUAAAUAUUAUGACACGUG CCGUCAGAUGAGAAAAAAAUAAGC UCACGUCUGAGAGAUUUCCGGAGG AAAAAGGUGAUUUCGCUUGGCGAA UAAUAUACGUCAAACG	330	23,6363636	33,9393939	16,6666667	25,1515152	40,3030303	59,0909091	0,74107143	1,41818182	-86,1	-76,1	8,90E-05	47,68	-26,090909	-0,6473684
>epa_vegetal-miR7757	AAUAGAAGUAAAGGAAAAGAUAUA GUGCUUAGAAAGGAGRUCUUUUCU GGGCGAAAAGAUCCUUGGAUGACU UGCAUGACAUAUCAUACCCCUGAAU CUGUCACUGAAAGCAGGAGGUGUA GAUUAAAACACGCCCACAAUUACUU AAUUCACCUUCAGUUAUCCUUCGAC GUCACUUUCAGUGUUUACCUUGGA AUACAACUAAAACCUGUUUGAAAA GAGCUUCAGUAUGUCUGUUUUACC AAGGUUUGUUGCCUUUAUCUUCCU UUAUCUUCUGUA	280	18,2142857	29,6428571	19,2857143	32,1428571	37,5	61,7857143	1,08433735	0,94444444	-71,7	-48,5	0,00060266	72,78	-25,607143	-0,6828571
>epa_vegetal-miR482g	GGAACCUACAACACUCAUGGAUAUA CCGCUGUCCACUUUCGUGGCCAGCA GUCUUUUCAGACCUGCCCAUAUCUC	105	18,0952381	23,8095238	24,7619048	32,3809524	42,8571429	56,1904762	1,36	0,73076923	-35,6	-35,6	0,423777	2,55	-33,904762	-0,7911111

	AUUAUAUAUUCAUGUGUAUUGUA GGUAGU															
>epa_vegetal-miR5084	CUUGAUUAUGAUUGACAGUUGGUA UUGUUGUUUGUGAAGCGGGACUCC AUUCUGUCGGUGUUUGAUGCUGUC CUUCCGGUGUAGUAGGCCAGCCUA UUCAACCAAUCAAUGAUUAGCAUU UUSAGGCCCGGGGACCCUUUUUCAC GUUCCCACUAUUGAUAUCAAUUGC CCUAGAGCGGAUUUCGUAUGAGUG GGAAACGAACAGUACUGUACAGUA ACCGUAAUCGUA	230	23,9130435	22,6086957	20,4347826	32,173913	44,3478261	54,7826087	1,42307692	1,17021277	-63	-54	1,84E-05	32,97	-27,391304	-0,6176471
>epa_vegetal-miR832	UCCGGUAGGUAUGCUCGACGGAGG GCCUUUAAGGGUCGAAAAUAUAAC CCUCGCGUACCUUUCAGGGUCCUG AUCUGACCCCUUCCCUUUUAGAGUC AAUUUUUCUACAGUUUGUUAAACU UGAGCUUUUCUCUUGUUAAAGACG UCCAAAAUGGUCGUAUCUUUUAGG GUUCUGGAAUCGAAACCUGAAUAA AUUUAUGCGUACCUUUUAGGAUCA UUUUUCAAUCCCGUCCGUCGCGCA UACCUACCAAG	253	19,7628458	23,3201581	23,3201581	33,201581	43,083004	56,5217391	1,42372881	0,84745763	-77,3	-52,8	0,000359	62,35	-30,55336	-0,7091743
>epa_vegetal-miR4394	CAAAUGAAGGGGUAUAGAAUGGUU CUCAGAAAUCGCAAGGCUCUACGAA AAAUUUCCAAGGCUCGCAAGCUUG GAGCUUAAAAAGAAAGGGGCUCGG GUUUAAAAUCGCUUUUGACUCGGA AGCUUGUAUUGGCCAAAAUAACGGA CUUGUUAAAAAAUGAGGGGCUCGC AGGCUUGGUGAGGCACGGAUUUUA CCAUUCUAUACCCCUUAAUGAU	216	25	31,0185185	18,0555556	25,462963	43,0555556	56,4814815	0,82089552	1,38461538	-69,4	-62,48	0,00018369	35,31	-32,12963	-0,7462366
>epa_vegetal-miR11518	UAGUUCGUAGUCAAAGGUGAAUAC AAACCACCAAAAACCAGUUUUCGAA UCAAGACCAUGGUUUUCUUUGAUU UUGAUGUUAUAUUUGUUCAGAGU CGUACUUAUAGGACUCGUUUCUAC CUUAGAAAGGUCCAUCUUUGAUUU GCAAUUUUGUCACGAAUUG	164	17,6829268	28,0487805	17,0731707	36,5853659	34,7560976	64,6341463	1,30434783	1,03571429	-36,2	-28,5	0,00350043	24,52	-22,073171	-0,6350877
>epa_vegetal-miR10211a	CAAUAGCUGUCAAUUACUGGAAAC UGAAGGUAUACUUUCUUUAAACUA CACUAUCUGAUAUCAGUUGAACUA GUAGCCAUAUUACCCUGCUCCCUAG GCAACUCUUUUUUACUCCUUUGAG CUUCCAUCUUGGCCGCUAGUAGAU UAGUAACGAGAAAGGAAAUAUAGG AAGAGGAGCCCCUCUCUCGUCCCCA UUCUCCCUCCUCUGACUCCCAAAGA CAGGAAGCCCGUGAUUCUUAGUGA UGCCUGCAGAGGGGAGUGUAUAAC CAUCACCAGUCUCUUGUAGUAGAG UAAUUUUCAGUUUGAUACCUGACA GCUACAA	323	18,8854489	27,244582	24,4582043	29,1021672	43,3436533	56,3467492	1,06818182	0,7721519	-85,3	-79,7	0,00133802	39,11	-26,408669	-0,6092857
>epa_vegetal-miR10433-2	AUAAUAACUUCAAUGAUUAGACUG CGGUCUUCACCACCAUCAUUCAUUC UGUCCUAAUUUUCACCGAGGGCGG AUCAAACUGAAUGUUACAGGGGGU GUACAAUCCCUGGGACCUUGUAUA CUUCAGUAUUUGCACUUCAUUUGU AACUCCUUUCUGAUCAUUUGUGUG GAGUGCACCCUCCUGAGGAUCUUG CACCCUUUCCUGAAGAAAUUCUGG	289	17,6470588	24,2214533	23,5294118	34,2560554	41,1764706	58,4775087	1,41428571	0,75	-75,9	-71,2	0,00021471	38,52	-26,262976	-0,6378151

	AUCCGCCCUUGUUCAAAAUGCAUU AUAAUGCUGUUUAUCUUUAACACU GAGUCAUUCUAUUGAGUCAUCAC															
>epa_vegetal-miR6280	GCAAUCUUUGCAGAUAUAUCUCAC UCGUUUAUUCUCACAGAAGCUACA ACCGUUACAUACUUUGCAAUAAGA UUUACGGUGGUUAUGAGGACAGAU UUGUGAUCCGUGACAAACUUUACA AUAAUAUUUUACUUUGUCGUGAGG ACAUUUAUAAGUAUUUGGUGUCGG UUCAUCAAGAAUACUCGAUGAUGU GUUAGGACCUAUAUUACCCCGUGG UGGUGGUGGUGGUGUAUUUGCAG GAUCGCGCGCUUGCCUACCUAACGC UUCGAAGAGUUCGGCUUUACGAAU UCGAGAAUAUCUAGAGAUACC	310	22,2580645	26,1290323	18,3870968	32,9032258	40,6451613	59,0322581	1,25925926	1,21052632	-79,6	-41,8	5,40E-05	99,63	-25,677419	-0,631746
>epa_vegetal-miR6291b	UCUCAUGCAAGCCUGUGUCACAUCC AGACAAACCACAUGUUUAUCUGGA UGUGAUACAGGCUAUCUCAUGCAA	74	17,5675676	28,3783784	25,6756757	27,027027	43,2432432	55,4054054	0,95238095	0,68421053	-39,5	-39,5	0,472085	3,57	-53,378378	-1,234375
>epa_vegetal-miR10433-1	UUUUAUGGCUAAAAAUAUUAAUUC UUUCUUCGAACUACGUGCAGUGCA UUUAAAAAGAGGUGGAAAAGAUGA AGCAAUUUCGAAAGCAAUUGUAGA UUCACUGAACCGUCUUCAUCAAUU UUUAACUCGACAGAAAUUAAACGA GCGGCUCAAGUUGAUACCUUGUUC GGUAUCUUCUUCGUCAGCUUCUUC AUCACCCUUGUUUCCGUUUUCUGG CGGACCAGAUUGAUCUGCAUAUCA AAGAAUUGCCAUUUAGCAGCCAUA UAU	268	17,5373134	29,1044776	19,7761194	33,2089552	37,3134328	62,3134328	1,14102564	0,88679245	-59,6	-57,1	0,00031223	46,37	-22,238806	-0,596
>epa_vegetal-miR11505	AGCGCUUAAUUCUUGUCAGCUUUC AAGUGUUUCUGUUAAAGUCUGAAC ACUUGUUGUUCAAUGGUCUUUUGC UGUUAUGACGUCAUGUAUGUAUUC GCGAAGUGCAUCAUGGUAAUGAUG AAAAUAUCAAGAUGGCGGGUGUCU CGCGUUUGAUGUGCGUAAAACAAC UGCGCGGAACAUCAGAAACACCCGA ACAGAAAAAAAAGGGGAAAUGAUA UAGCUCUUUAAUACGUACUGAUAU CGCUCCUCGAUUGGUCCAACAUACU GGUCCAGCGCAGCCCCAAGAAACUC CGAGAACAUGCCAAGAACCAAGCAU C	318	22,0125786	29,8742138	21,0691824	26,7295597	43,081761	56,6037736	0,89473684	1,04477612	-81,7	-79,2	5,49E-05	56,15	-25,691824	-0,5963504
>epa_vegetal-miR479a	GCGAUUGUUUUGAUUUGUUUGCC UCGUCGGGCGAUUGGUUUGGCUGG UUUGCCUAAAUGUGCGAUGGAAGU UAUGUCAUCGGAGACCAAAGGACU CGACCUGGCAGAUAAUUCAGAGAA AUAGU	123	30,0813008	22,7642276	16,2601626	30,8943089	46,3414634	53,6585366	1,35714286	1,85	-44,6	-41,2	0,0712898	5,82	-36,260163	-0,7824561
>ofa_animal -miR-222b	GCAUCUUGUCAGCCACGAGAAGUU AGUCUUAUGUAACAUCAGUAGUUG GUGUAGACAUAUGAGUAAUGGGGU GGCUCAAGAAAA	85	27,0588235	30,5882353	14,1176471	27,0588235	41,1764706	57,6470588	0,88461538	1,91666667	-29,5	-29,5	0,324872	1,41	-34,705882	-0,8428571
>ofa_animal -miR-3001	CGAGUGAUGUUUGAAAAUUUGUC AAAAUUGCACAAGUCUUUAGGCGA GUGUAAGUUGAAAGAAUUGUCAAA UGUCACGAG	82	24,3902439	32,9268293	10,9756098	30,4878049	35,3658537	63,4146341	0,92592593	2,22222222	-28,6	-28,6	0,290779	2,12	-34,878049	-0,9862069
>ofa_animal -miR-975	NAUUGCCCUGAUAUAUCAUUAAAA UAUAGAAGUGGCUAAACACUGCCU	97	20,6185567	26,8041237	19,5876289	30,9278351	40,2061856	57,7319588	1,15384615	1,05263158	-25,5	-16,4	0,0835911	25,49	-26,28866	-0,6538462

	ACAUGUUUCUGAACGCCUCUCUAG CUUUUAAGGUUGCGUAGGGCAGUG															
>ofa_animal -miR-2168	ACUGUUAAAAUUUCAUUGUAGGUU GUACGGCAGGGUUUCGAGCAAUCC UUGAUCAAAGACUGGCUUUCACAA CCUUUGACGAGAAUUCAACUGC	95	21,0526316	27,3684211	20	30,5263158	41,0526316	57,8947368	1,11538462	1,05263158	-19,1	-19,1	0,0469431	16,24	-20,105263	-0,4897436
>ofa_animal -miR-10917	GGGAAUUCUGCUAACAGGAUAGAC AAAUUGAACCUAAACAGCUGUGUC AGACUGUCAGCAGAGUUUUA	69	23,1884058	33,3333333	17,3913043	24,6376812	40,5797101	57,9710145	0,73913043	1,33333333	-22,4	-21,3	0,316044	1,96	-32,463768	-0,8
>ofa_animal -miR-987	UGAUUUGACUGGUAAUGGCUGUGA UGUGAACUGCUGUUGUGACACUGA UUGUAGCACAACAGAUCAACAGGCA UUUACAGAAUGCAAAGAA	92	25	31,5217391	15,2173913	27,173913	40,2173913	58,6956522	0,86206897	1,64285714	-27	-27	0,165451	6,21	-29,347826	-0,7297297
>ofa_animal -miR-100	UCGCAGUUCACAUGAACCCGUAGAU CCGAACUUGUGGGAAUUUUCGCCA CAAGUUCGGCUCUACGGUACACGU GUGCUGUAC	83	24,0963855	21,686747	26,5060241	26,5060241	50,6024096	48,1927711	1,22222222	0,90909091	-44,6	-44,4	0,163431	5,78	-53,73494	-1,0619048
>ofa_animal -miR-4281	CUCAUAGGAGGGUCCCGGGGAGGG GGCUACUCACAGAAAAGUUAGCUA GUGGCGUGCGGCCCACUUCCCAGAA CCCUUACCCUAUUUU	89	28,0898876	21,3483146	28,0898876	21,3483146	56,1797753	42,6966292	1	1	-34,3	-33,6	0,120204	11,77	-38,539326	-0,686
>ofa_animal -miR-466i-1	GCCAACAGACACAUCAUCAGAAUUU ACACACACUCAGUACACUUGAGAGG GCGGUUCCCCUUGGGAGUGUAUGU GUGUGUGUGUGUGUGUCUGUU UGU	101	27,7227723	20,7920792	19,8019802	30,6930693	47,5247525	51,4851485	1,47619048	1,4	-45,9	-41,3	0,0258852	17,73	-45,445545	-0,95625
>ofa_animal -miR-12201	GGGCCUCUCCCCUCUGCAGAGGCUU CCUAUGGGAAAUUGAAUAAUGGGU CAAGGCAGCGCAAAAGAGGCCUUGC AGAGGAGAGAGGUUU	90	32,2222222	25,5555556	21,1111111	20	53,3333333	45,5555556	0,7826087	1,52631579	-43,1	-40,7	0,0961636	5,88	-47,888889	-0,8979167
>ofa_animal -miR-2491	CUGUUGCUGUUGCUUUGUCGUUG UUCCGUAAUGAUUUCACAGGCGAC GUAAACAACAACAACAGCAGCAGCA AAUU	77	20,7792208	27,2727273	22,0779221	28,5714286	42,8571429	55,8441558	1,04761905	0,94117647	-27,6	-27,6	0,314717	10,23	-35,844156	-0,8363636
>ofa_animal -miR-8198	AGUUCAUUUGAGAGACUCCAUUUC AAUUUCGUCUAAUUACGGAUACUG UGGUGGUUUAUAAUUGUAAUCGU CUCUCUCUAUUGAUAU	88	17,0454545	23,8636364	15,9090909	42,0454545	32,9545455	65,9090909	1,76190476	1,07142857	-18,9	-18,7	0,0930487	9,85	-21,477273	-0,6517241
>ofa_animal -miR-10057	CACCCUCACUAAGAGCAUCACUAGG CUUGUGAGUGAAGUAGCCAGGUGU UGAUUUCUCAACUGGUGAUCUCUG ACGAGGAAU	83	25,3012048	25,3012048	21,686747	26,5060241	46,9879518	51,8072289	1,04761905	1,16666667	-25,3	-24,9	0,32455	11,89	-30,481928	-0,6487179
>ofa_animal -miR-5892b	CCAGAACAAUUAACAUUUGGAUCA UCUUCAAGGCGAAAGAGGAAAUCU UGAAGAAGAUCCAUUGUAGACUCU UCAAC	78	17,9487179	37,1794872	19,2307692	24,3589744	37,1794872	61,5384615	0,65517241	0,93333333	-20	-19,9	0,140157	4,41	-25,641026	-0,6896552
>ofa_animal -miR-1989a-2	UGAAAAUGACAAGAAGAUUACCUU UUUUGGCGAUAUAUUCAUAAUACA UGCCGGUUAUGAAAGCAUUGGAAA AGGGUACCUUUUUUCAGUUAAA	95	18,9473684	34,7368421	12,6315789	32,6315789	31,5789474	67,3684211	0,93939394	1,5	-20,5	-20,5	0,132423	9,34	-21,578947	-0,6833333
>ofa_animal -miR-2489	AAUUAGAACCUAUUGUAUGUUGUA UUUUGUGUAUGCAUAUUAAGUAG GCUAGCACAUUAUGCAAAUCCAGAA AGUGCGCACAUCCAAAUGGUGUGU AUGA	101	20,7920792	31,6831683	13,8613861	32,6732673	34,6534653	64,3564356	1,03125	1,5	-21,9	-11,1	0,0129565	34,33	-21,683168	-0,6257143
>ofa_animal -miR-4210	GAGUUUUGGGUUUUAUAGAAUAU GUAUUAACUGCAUGGGUUUAAAUA AUAUAUUGUUAAACUUGUUUUAUA AAACUGAAAAGUC	85	17,6470588	34,1176471	5,88235294	41,1764706	23,5294118	75,2941176	1,20689655	3	-20,9	-20,9	0,1005	14,76	-24,588235	-1,045
>ofa_animal -miR-145	UGGUGCAGCGUGGCCAUCUUGAUU GACAAGUGUAUCAAAUUCACUUGA	101	23,7623762	27,7227723	20,7920792	26,7326733	44,5544554	54,4554455	0,96428571	1,14285714	-26,6	-21,08	0,0558802	20,21	-26,336634	-0,5911111

	CUGAUUCCAGGAAUAACUCGACUU GUGACUUACACGUGGCCAGAAUGC AGAA															
>ofa_animal -miR-9534	UGAACAUGCAUGCGAUGUUAUUUU UUGGAGUUCCCAUUGACUUCUUCA AGUCAAAGAUAACUAACACAAAAAC CCAACAAUUCAUGCAGUCCU	94	13,8297872	32,9787234	22,3404255	29,787234	36,1702128	62,7659574	0,90322581	0,61904762	-19,5	-16,8	0,0258298	12,85	-20,744681	-0,5735294
>ofa_animal -miR-4968	GAAUUAUGAUGCUGACGAACAUGU UAUGUUGUCUGGUGUUAAUCCUGA UCACCCUAUGCUCUGCGAAGGACAA CAACAACAGCAGCAGCAGCAAACCC	99	21,2121212	30,3030303	24,2424242	23,2323232	45,4545455	53,5353535	0,76666667	0,875	-21,4	-16	0,0545608	16,78	-21,616162	-0,4755556
>ofa_animal -miR-762	CGGGAAUCCCGAUUCCGGGCCCGCU GAUUCCGGGGCUACUGAUUCCGGG GCUGGGGCCGGAGUAGGGGCCGGA GUGGGGACUUCUGU	88	42,0454545	11,3636364	26,1363636	19,3181818	68,1818182	30,6818182	1,7	1,60869565	-48,1	-48,1	0,136893	6,65	-54,659091	-0,8016667
>ofa_animal -miR-344f	UCGGUAAAAUACAAAACGUCCAGUCA GUCUCCUGGCUUAGAAGUAAGCUA GUAGACACUGAUGAUUCUUCUUCU ACUGG	79	20,2531646	27,8481013	21,5189873	29,1139241	41,7721519	56,9620253	1,04545455	0,94117647	-22,4	-22,4	0,0860977	5,18	-28,35443	-0,6787879
>ofa_animal -miR-972	UAUAAAUAUUUUCUUUGUUGCCUU AGAGUUUUCUAUAGUACUCCUACG GGAACACGUUACAGUAUUAUUAUA AUUCCUGGCUAAAAGAAAUUAGUU CAA	100	14	31	15	39	29	70	1,25806452	0,93333333	-22,3	-21	0,209827	3,34	-22,3	-0,7689655
>ofa_animal -miR-8335-1	UUUUUUUUUGUUGUUGUUGUU UUUGAGACACUUGGCGAUUGCUUG GUGUAAAACAAGAAGAUCGAGAAA UAAGAA	78	24,3589744	26,9230769	7,69230769	39,7435897	32,0512821	66,6666667	1,47619048	3,16666667	-20,3	-19,3	0,130442	6,98	-26,025641	-0,812
>ofa_animal -miR-4870	CAAGACAGUUCUAAACAUAAAAUG UGCGAAACAAUAAACAUGUAAAUC GUCAAGUAGUCGUUUUAUUUAUU GCAUUUUCUAGAUGUUUGUACUGU CUUC	100	15	33	15	36	30	69	1,09090909	1	-20,8	-17,2	0,0638651	16,43	-20,8	-0,6933333
>ofa_animal -miR-2424-2	GUUCUUUAAGGAAUUUUUUGAAG GAUCUUGCAAAGAUCUUUGGUAAU CUUUGCUAGGAUCCUUAAAGAUCC UAAUAGGAU	81	19,7530864	28,3950617	12,345679	38,2716049	32,0987654	66,6666667	1,34782609	1,6	-29,1	-27,8	0,0537698	11,29	-35,925926	-1,1192308
>ofa_animal -miR-8424	CCGCAAUCUUGAAUUUCAAAACGU UUUCGAAUAAGUCAGAACAACUCCU AAAUUGAUUCUGAAACUUAGCAAA AUAUAUCGAGAUUCAAGUAAUGUA A	99	13,1313131	39,3939394	17,1717172	29,2929293	30,3030303	68,6868687	0,74358974	0,76470588	-19,9	-19,9	0,192735	4,83	-20,10101	-0,6633333
>ofa_animal -miR-3878	AAAUGCCUGGAUAUCUUCAUGGCU UAUUUUUAGUGUCCGUGGGACGGA GGACUAGUACUAAGGUUAGAUUAU UAGCGAGGAAAGAUAUCGAGCGCA AUU	100	27	28	14	30	41	58	1,07142857	1,92857143	-26,3	-21,71	0,0160485	19,72	-26,3	-0,6414634
>ofa_animal -miR-2226	CCUCACGUCUUUUUCUCUUUUCAU CUUCCUUUUGAUCUUUAAGUUCUU CCUGUGAAUUAAACAUUAAAUAGG AGUAAUGACACAGAAGAACAUGUG AAC	100	13	28	20	38	33	66	1,35714286	0,65	-23,6	-23,6	0,0715422	6,6	-23,6	-0,7151515
>ofa_animal -miR-106	GGGGUGACAAAAAAUCUUUGCUUC ACUGAAUGUAGGAAAGUCUGCAUC GGCACCAUAAAGUGCUUACAGUGU AAUUGCUAAAUCAAUUGUUUUUCA CAAG	101	20,7920792	31,6831683	16,8316832	29,7029703	37,6237624	61,3861386	0,9375	1,23529412	-18,9	-15,2	0,018478	19,2	-18,712871	-0,4973684
>ofa_animal -miR-9600	AUGGCCAAUAGUUUGUUACAGCUU CGUUACCUUUAACCACGGAGUCUG UAUUCAACCACCUGGUAUAUGAAG UUGUUUCAUCAACAACUGGCGUU	96	18,75	25	21,875	33,3333333	40,625	58,3333333	1,33333333	0,85714286	-24,2	-23,1	0,196741	17,41	-25,208333	-0,6205128

>ofa_animal -miR-2353-2	UCCUAGCCUGCAGUACAGACAGAUU AGUAGCCUCUAGCGCUAGAGCCCAC UAAUCUGCCUGUUCUGCAGGCUAU CC	77	20,7792208	22,0779221	31,1688312	24,6753247	51,9480519	46,7532468	1,11764706	0,66666667	-42,2	-41,2	0,379634	1,97	-54,805195	-1,055
>ofa_animal -miR-12366b	UCACCAUGCAGUUCGCUUGAGGAG UUUAACAUUCCUGCAGCUCUGAGA UCUAAACAUGCAGGAAAUCUAUCGC UUCCAUCAAACGCGAUGAUGGAAA	98	20,4081633	29,5918367	23,4693878	25,5102041	43,877551	55,1020408	0,86206897	0,86956522	-25,2	-25,2	0,0459497	9,28	-25,714286	-0,5860465
>ofa_animal -miR-618	CCUCAUCCCUUGUCCAUCAGGCAUG AGAGAAUGAAAAGCUACUUGCCCAA UAGGAAACUCUACUUGUCCUGGAU GACUGGAUGGCA	87	21,8390805	27,5862069	25,2873563	24,137931	47,1264368	51,7241379	0,875	0,86363636	-21,3	-18,6	0,0749527	16,18	-24,482759	-0,5195122
>ofa_animal -miR-8364p	GCACCGCGCAUCUCAUCCGGGGUGA CGUAAUUCCGACGAGAGAGCAAGU GAACAAUCCGGAGAAAUGUUGCACC AUGGAUGAGAUGGCAGGAGA	95	31,5789474	29,4736842	22,1052632	15,7894737	53,6842105	45,2631579	0,53571429	1,42857143	-35,9	-35,4	0,175048	5,38	-37,789474	-0,7039216
>ofa_animal -miR-7226	AUCAUUCACAAUCUCUGUCUAUAG UCAAAGAAGUUGUAGGGGAAACUG CCAGGGAAGUUGAUUGUAGACACA AAACUGACUGAAUUAC	89	21,3483146	34,8314607	16,8539326	25,8426966	38,2022472	60,6741573	0,74193548	1,26666667	-22	-22	0,178038	5,44	-24,719101	-0,6470588
>ofa_animal -miR-1775	UUUCCUGUAGCCAGAAGAACUACAA AGAGCGAUUUGAUCGUCUUUCUCU GAAGUUUCUAAUUCUGGUAAGGGU G	75	22,6666667	25,3333333	17,3333333	33,3333333	40	58,6666667	1,31578947	1,30769231	-20,3	-17,4	0,0505839	13,23	-27,066667	-0,6766667
>ofa_animal -miR-376d	AAUUCAGACGGAAUAUGCAUACAG CCCCAGGGCUUCAGAAAAGGGCCAU GCAGUUGUCUGGGACAAGUAGAUU UUCCUUCUGAGCA	87	25,2873563	28,7356322	21,8390805	22,9885057	47,1264368	51,7241379	0,8	1,15789474	-21,8	-18	0,0301605	20,64	-25,057471	-0,5317073
>ofa_animal -miR-283	CAAGAAAAGACCUAUCUGUCGAUG GGCAUAAAAUAAUGGGCCCACGGG GAGAUAGGCUCGAUUUCAGC	69	27,5362319	31,884058	20,2898551	18,8405797	47,826087	50,7246377	0,59090909	1,35714286	-25,7	-24,9	0,261922	3,07	-37,246377	-0,7787879
>ofa_animal -miR-377	GCUCUUUGCUCAGGUGAAAGAUUC GACACUGGUCGCUUAGAGCUCGAG UUUGCACUUGGCGAAGUUU	68	27,9411765	19,1176471	20,5882353	30,8823529	48,5294118	50	1,61538462	1,35714286	-23,9	-22,5	0,247869	4,66	-35,147059	-0,7242424
>ofa_animal -miR-574-1	UGUGUGUGUGUGUGUGUGUGU GUGGUGGGGGGGUAGCACUCGCGA UAAUACUGAAGCUUUCGCCGUUGG GGGGGACAACACUCACGAAAACACA CAUA	101	35,6435644	20,7920792	16,8316832	25,7425743	52,4752475	46,5346535	1,23809524	2,11764706	-34,9	-19,6	0,0220543	32,88	-34,554455	-0,6584906
>ofa_animal -miR-1238	GCCACAUCCAGAGGGACGAGGCGAC AUACUAUCGGCUUAAUGAAACGGU UAACUACCUAAGCCGGUCGUUUUC UCCCUCAUCUGUCUGAUGUCAU	96	21,875	23,9583333	27,0833333	26,0416667	48,9583333	50	1,08695652	0,80769231	-33,8	-33,8	0,253032	4,03	-35,208333	-0,7191489
>ofa_animal -miR-574-2	UGUAACGAGUGUGUGUGUGUGUG UGUGCCAAAUUUGGUGCUUUCUUC CAGUCGGUAACGAUUUUUUUCCCU AAACCACCACACUAGACGUCUCGUU GCA	100	23	19	22	35	45	54	1,84210526	1,04545455	-33,2	-33,2	0,0137726	9,63	-33,2	-0,7377778
>ofa_animal -miR-2285a	UAGGGCUAGAAAAUAAUCAUUUCG CUUUUUUACUGGGUUGAAUAGAGC UAGAUUUUGUAAGAAACUAACCCA AAAAAAACUGAAUGAAAUUCAGCCA UG	100	18	38	14	29	32	67	0,76315789	1,28571429	-19,7	-16,5	0,0523814	13,05	-19,7	-0,615625
>ofa_animal -miR-2030	UGACCGGAUAGCAUAACAUUGUAA GAGAUCUUUAAGAGCUCUUGCACU GUUGUGCUGCCCGGAAA	66	24,2424242	27,2727273	19,6969697	27,2727273	43,9393939	54,5454545	1	1,23076923	-33,7	-33,7	0,552701	1,08	-51,060606	-1,162069
>ofa_animal -miR-9425	GUUGGGGCCAAGAACACCCAAAAUA GCUGAAUUUUUUUCAGCUAUAUUG AGUGUUCUCGUUCCCUCC	68	19,1176471	23,5294118	23,5294118	32,3529412	42,6470588	55,8823529	1,375	0,8125	-30,5	-28,4	0,219802	6,12	-44,852941	-1,0517241
>ofa_animal -miR-29b	ACGGGGGCAUCUUUUUCUGGUCCU CCCACAUUAGGCGUCAAAUGUAUCA	83	20,4819277	22,8915663	25,3012048	30,1204819	45,7831325	53,0120482	1,31578947	0,80952381	-31,4	-31,4	0,621497	1,47	-37,831325	-0,8263158

	UUUGUAGCUAGCACCAUGAAAAAG UGCCCCUUU															
>ofa_animal -miR-7237	GCUCUCAUAGGCAUAGGCAAGCACC UUUAGGUAGAAAUUUGAAUAAGUG GUUGUCACUAGAGAUGGUAGCUUG UGACAAUGAGUUA	87	26,4367816	29,8850575	13,7931034	28,7356322	40,2298851	58,6206897	0,96153846	1,91666667	-23,4	-23,4	0,499558	3,22	-26,896552	-0,6685714
>ofa_animal -miR-4668	GGGGAGGAGGAAGAGAAUUCAGGG AAAAAAAAAAGGAGGAGUGGGGAG UGGAGGGGAAAAAGGAACGUGUUC CCUUCUCCGAAUUCUCUUCCUCUUC CCC	101	33,6633663	30,6930693	16,8316832	17,8217822	50,4950495	48,5148515	0,58064516	2	-47,3	-33,46	0,0864854	16,42	-46,831683	-0,927451
>ofa_animal -miR-22b	GAUUAGCUAGGAUGAGGGGCGCAG GGAAUCAUGGGGAGGAGGAAAAC UCUUUUUCUCCUUCCCAUCGCUCCC UGCGCUCGCGUUCUUCACUGGCUA CCA	101	28,7128713	18,8118812	26,7326733	24,7524752	55,4455446	43,5643564	1,31578947	1,07407407	-58,3	-58,3	0,305802	4,78	-57,722772	-1,0410714
>ofa_animal -miR-1421g	AUUGUUGACGCAACUGAUUCAUAU CGAUCGCAUGCUCUGAAUGCAUGC GUGCGACCUCGGACAGUUCUAACCA G	75	22,6666667	24	25,3333333	26,6666667	48	50,6666667	1,11111111	0,89473684	-21,6	-21,5	0,233883	5,23	-28,8	-0,6
>ofa_animal -miR-4958	GCCGCACCCAUCAGCUCCAGGUACC GCUCCAGGAGGUAGUACGCGGGGA CCGGGAGGUAGGGUGCAUC	69	36,2318841	18,8405797	30,4347826	13,0434783	66,6666667	31,884058	0,69230769	1,19047619	-28,7	-27,8	0,362572	4,43	-41,594203	-0,623913
>ofa_animal -miR-518a	GGGCUUUAACUUUAAGGGAGUUAG CCUCUCUAAGGCUACAGGGUAGCCC GUUCCAGAGGGUUGCACCACUGAA ACUAAAGAUA	84	26,1904762	27,3809524	21,4285714	23,8095238	47,6190476	51,1904762	0,86956522	1,22222222	-23,9	-14,3	0,060621	31,32	-28,452381	-0,5975
>ofa_animal -miR-4753	AUUCGUGAUGGGAGUCUGCUCAAC CUGAGACGUCUACAAGGCCAAAGGA AGACCUUGGAACAGCUGAUGAGUG AGCUACUCAUAUGACGCUU	93	26,8817204	27,9569892	21,5053763	22,5806452	48,3870968	50,5376344	0,80769231	1,25	-24,3	-19	0,0589455	15,32	-26,129032	-0,54
>ofa_animal -miR-6787	AGUAAGUGACUCAGGAUUGGGUGU CAGAUCUUCUUCAUUUCUCUUCUU UCUUUCUUAUCUCAGCUGCUGCCC UGAACCCUAUCCUGACAUCACCUUC UA	100	15	18	28	38	43	56	2,11111111	0,53571429	-22,09	-21,99	0,0896454	9,97	-22,09	-0,5137209
>ofa_animal -miR-2394	UAAUGACUGGCCUCAUGGGAAACA GUGAGUUUUUCUCCCCUCAAUCUC AACAUUUAGGGUCUCAGGGAAACU CACUAUUUACCUUGGUGCCGGUCA UUA	100	20	24	24	31	44	55	1,29166667	0,83333333	-43,2	-43,2	0,138061	5,69	-43,2	-0,9818182
>ofa_animal -miR-2412	UUGUUGGGGCUGGGUGGGGUCAU UGUGUUGACUGAAUUCUCGGGCAA GACUUUUCUAUCUCCACAGUGCACC UCUCCCUACCCAAGAG	89	26,9662921	16,8539326	24,7191011	30,3370787	51,6853933	47,1910112	1,8	1,09090909	-35,6	-35,6	0,168081	3,99	-40	-0,773913
>ofa_animal -miR-9371	UGACCAGACCAAACACAGACAUACU UCUUAAAGAAAUCACUUUGCUUGG CUGUCGUCUUUAAACUAUUAGCGA UUGGUUUGGAGA	86	18,6046512	30,2325581	19,7674419	30,2325581	38,372093	60,4651163	1	0,94117647	-18,8	-17	0,0393126	9,35	-21,860465	-0,569697
>ofa_animal -miR-7456	AAUAAUGAUGAAAUCUAGCAAGCA GCUUACCCCACUCCUGGUACCAGGC CUGGUGCUUCUGCCUGCAGCUGCA UCAUUCCC	82	19,5121951	23,1707317	31,7073171	24,3902439	51,2195122	47,5609756	1,05263158	0,61538462	-24	-24	0,411599	4,66	-29,268293	-0,5714286
>ofa_animal -miR-8103	UGAAAUAGAGCACAGAUUGUGAAC ACUUUGUUUUGAAAUGGGCUAUAG UUUGUACACACCGACCUAGAGUAGC UUCACUCUCCUGUUCUCUGUUAUU	98	19,3877551	25,5102041	19,3877551	34,6938776	38,7755102	60,2040816	1,36	1	-22,1	-21,4	0,108019	8,73	-22,55102	-0,5815789
>ofa_animal -miR-6984	CUUAAGUGAUGGAACUUGUAGAAA GAAGAGCUUUUACUGAAAUGGGUU GCAAAUCUUUACUUUCUUUCCUGU CACUUCCAUGAGCACUUGCC	93	19,3548387	25,8064516	19,3548387	34,4086022	38,7096774	60,2150538	1,33333333	1	-18,7	-16	0,0649622	15,76	-20,107527	-0,5194444

>ofa_animal -miR-466p	GAAGCUCAAAAUAUGGUAAUAUGU GUGUGUACAUGACAGGGGAAGCCU GCAAUAUGGUAAUGUGAUACACGC ACAUAACGCAAGUUCUUGUAGCGG A	98	26,5306122	32,6530612	15,3061224	24,4897959	41,8367347	57,1428571	0,75	1,73333333	-26,7	-23,8	0,0479164	11,8	-27,244898	-0,6512195
>ofa_animal -miR-8335-3	AUUCGCGAUAAAAUACUAACUAAGCA AUAGCACAGCCACGUCAUAACUGUC UAGGAAUUGGUUUUGUUGUUGUU GUUGUUGUUGUUUUUUUCGCGCAA	97	20,6185567	24,742268	16,4948454	37,1134021	37,1134021	61,8556701	1,5	1,25	-27,9	-27,9	0,152334	8,02	-28,762887	-0,775
>ofa_animal -miR-2353-1	CAGUAGCCUGCAGUACAGACGGAU UAGCGGGUUCUGGCGCGAUAGUCC GCUAAUCCACCUGUUCUGCAGGCU AAAC	77	27,2727273	22,0779221	27,2727273	22,0779221	54,5454545	44,1558442	1	1	-44	-44	0,352926	3,03	-57,142857	-1,047619
>ofa_animal -miR-1255a	AUCACUUCAUUGUCGGGAUGAGCA AAGAAAGCCAGUGAUCGACGCACAG UCCUCUGCUUUCUUUCCUCAUCUG GAAUAAGUACC	85	20	25,8823529	25,8823529	27,0588235	45,8823529	52,9411765	1,04545455	0,77272727	-27,9	-27,7	0,120616	6,76	-32,823529	-0,7153846
>ofa_animal -miR-6119	AUUACGGAGAGAAAAUAACUUUGG GCGCCUAGUCCAGUUUGGCGCGUG CAAUUGCGGGACAAAAUCAUUUUU UACUCGGUCCA	84	25	26,1904762	20,2380952	27,3809524	45,2380952	53,5714286	1,04545455	1,23529412	-19	-10,14	0,142434	18,86	-22,619048	-0,5
>ofa_animal -miR-31b	UAAUUUAAAUUGUCCCAGCAUACU GUCACAGAUUGUUGGGGUAACCUG GCAAGAUGCUGGCAAGUAUAAACC U	74	21,6216216	29,7297297	18,9189189	28,3783784	40,5405405	58,1081081	0,95454545	1,14285714	-19,6	-16,9	0,227666	16,11	-26,486486	-0,6533333
>ofa_animal -miR-7074	AAAAACCUUAAAUCUUUACCAAGAC UAACCUUAAGCCUAAACAUUGUCU UGUAGUAGUAUUUAGGCCUAAGGU UAGCAUUGGGAAGAGGCUAGGGUU GUG	101	21,7821782	31,6831683	15,8415842	29,7029703	37,6237624	61,3861386	0,9375	1,375	-39	-38,1	0,210892	4,65	-38,613861	-1,0263158
>ofa_animal -miR-9415	AUACUUACCUGACGCGGGACACACC UCUACGCACUUUGUGCUAGGUUGU CCCUGCUUAGGUGAGAAC	68	23,5294118	20,5882353	27,9411765	26,4705882	51,4705882	47,0588235	1,28571429	0,84210526	-31,5	-31,5	0,405317	5,03	-46,323529	-0,9
>ofa_animal -miR-3479a	UGUGGGAAAAUUUUCAUUCUUUU UCAUAACAACAUGCAUACACAAUUU CUGUUGUUAAUAAAGUUUUGGUG AAGAAAGACGGUGAAAGUUUAUGC CUAG	100	19	32	12	36	31	68	1,125	1,58333333	-19,9	-17	0,0126088	17,8	-19,9	-0,6419355
>ofa_animal -miR-5874	GCACUUGGACGGAACAAGUUAUCC ACUAUUCUUUGUUCUGUGAUGAAC AAUACAACCACAGAAAACAGAAAAU UAUUUCACUUGUCGGUACUAGCAA	98	16,3265306	34,6938776	20,4081633	27,5510204	36,7346939	62,244898	0,79411765	0,8	-19,5	-19,5	0,0902185	7,61	-19,897959	-0,5416667
>ofa_animal -miR-8464	GUGUUGAUAGAUUCCAAAUAUGGA UAUGCCGGAUGUAACUGCAUUUCC AGAAUGGGUAUUCUGUGUUAAUAU UCCAAAUAUGGUACAACUAGCUCAA AAA	101	19,8019802	32,6732673	14,8514851	31,6831683	34,6534653	64,3564356	0,96969697	1,33333333	-19	-15,4	0,023292	16,61	-18,811881	-0,5428571
>ofa_animal -miR-4595	ACAGUUUGCUCUCACAGUGUUUCU CUCCACCCAGUUGUAUGUUAAAAG GGAACCAGCAAAUUAAUGCUGGUG GGUAACCCUGUGAAAAAAAACCAC	97	19,5876289	30,9278351	22,6804124	25,7731959	42,2680412	56,7010309	0,83333333	0,86363636	-26,9	-26,9	0,271173	4,8	-27,731959	-0,6560976
>ofa_animal -miR-5354	GGAAAUGGAAUGACAUCUGUCAGU UUGGCACAAUCACACAAAUGAUUCG AAACAGACAGAUAGUAUUUUAUUG GG	76	22,3684211	35,5263158	14,4736842	26,3157895	36,8421053	61,8421053	0,74074074	1,54545455	-20	-17,7	0,132421	5,52	-26,315789	-0,7142857
>ofa_animal -miR-7902	UACGCAAAGUGACUCACAUUGUAA AAGUGUUUCUUUUAUGCGUUAUA GGAAAAUGACAAAAGAUUUUGCAA AUUAUGUCAAUUUUGCAGA	91	17,5824176	35,1648352	12,0879121	34,0659341	29,6703297	69,2307692	0,96875	1,45454545	-19,1	-19,1	0,207293	9,89	-20,989011	-0,7074074
>ofa_animal -miR-3118	ACCUCAGUAAGGUACUCAGGAGCU UUGGUAUGCAUAAUUUUAUGUGU UGUGAUUGCAUUAUGAUGUUGAC	100	23	26	17	33	40	59	1,26923077	1,35294118	-27,4	-18,57	0,0390903	20,69	-27,4	-0,685

	GUCGAACUCCAAGAGUAUCCCACUG AAGU															
>ofa_animal -miR-9341	AGCAGUAACAAGCUGAUCGCUUCUC GGCCUUUUGGCUAAGAUCAAGUGU AGUUCUUAAGUCUUAGUUCGAAAG CCAGGAGAGUCCUCUUUUCACUUG G	99	23,2323232	23,2323232	21,2121212	31,3131313	44,4444444	54,5454545	1,34782609	1,0952381	-24,6	-21,4	0,0285	19,94	-24,848485	-0,5590909
>ofa_animal -miR-4999	GCUGCUGUAUUGUCAGGUAUAAGU UUGGUGGUCGGCCUGUAAAGGUAA ACCACAAACUGUUAACUACUAGUAG CAGCCUG	81	25,9259259	25,9259259	18,5185185	28,3950617	44,4444444	54,3209877	1,0952381	1,4	-28,8	-28,6	0,0839361	6,67	-35,555556	-0,8
>ofa_animal -miR-6731	UACGGGAAGUGGGAGAGCAGGGUA UGGGAAGCGGGAGGUUCUGAUCCC CUGUCCCCCUCCCCCCA	66	34,8484848	18,1818182	28,7878788	16,6666667	63,6363636	34,8484848	0,91666667	1,21052632	-29,9	-26,7	0,064522	10,35	-45,30303	-0,7119048
>ofa_animal -miR-2285df	AAAGUUCGUCAAAAGAAGACGAGAC AUCAGGAGAAGUCGACAAAAACCUG AACAGACUCAAGUCUCCUAUUGGU UCAAUUCUUUCUUUUACGCACGUA	99	18,1818182	35,3535354	21,2121212	24,2424242	39,3939394	59,5959596	0,68571429	0,85714286	-22,8	-22,8	0,0961666	5,07	-23,030303	-0,5846154
>ofa_animal -miR-2c	AAGACAUCUUCACAGUGGACGAUU UUGAUGACUUGUUGGCGAAGUCUC AUCAAAUUGCCCGCGCAGCAUGUGA C	75	24	25,3333333	22,6666667	26,6666667	46,6666667	52	1,05263158	1,05882353	-18,5	-18	0,0628683	12,29	-24,666667	-0,5285714
>ofa_animal -miR-2162	GUUACCUACUACCAUCAGUGGAUU UGUUGCAUCCGAGAAUGCCGGAGU UCGACAGACGCUGUUGCAGACUGC AAAGGCCACGUUGGUUGGAGGUGG A	98	30,6122449	22,4489796	21,4285714	24,4897959	52,0408163	46,9387755	1,09090909	1,42857143	-30	-29,6	0,0182467	16	-30,612245	-0,5882353
>ofa_animal -miR-7116	UCUCGCAAGAGGGCGUCAUGUUUU UUUUUUCCUUUGCCUGAUGCACGC AUUUUCUUUUAUGUUUGCACUAAA AACUAAGCACUGCCCGCCUGUGCGG CU	100	20	17	25	37	45	54	2,17647059	0,8	-23	-22	0,0600093	11,41	-23	-0,5111111
>ofa_animal -miR-8346	CAGUACGGCUGUAAAAUGCUGUGA ACAGAAUGAUACGGAUGUCGGUGG GCGAUAGCUGUAUCAGAUAUCACU UUUACCAGUCAUAACAUCCGUAGA U	98	24,4897959	29,5918367	18,3673469	26,5306122	42,8571429	56,122449	0,89655172	1,33333333	-26,9	-22,7	0,0454121	16,55	-27,44898	-0,6404762
>ofa_animal -miR-12354	UUGUGAUUUCAAAGAUGUGCCGUU GCUUUACCUUAAAAACUAAUGCAG AGGCAUGCAAAAUCUGAAAUCAAU U	74	17,5675676	33,7837838	16,2162162	31,0810811	33,7837838	64,8648649	0,92	1,08333333	-19	-19	0,106617	4,92	-25,675676	-0,76
>ofa_animal -miR-802	UGUAAGAUGCUUUCAUGCAGUCAG CAAUGUCGGCAGUAACAAGGAUUC AUUUUUGUGCCUGACAUUAUGUGA UUAACAUUAUCUUGUA	89	20,2247191	26,9662921	15,7303371	35,9550562	35,9550562	62,9213483	1,33333333	1,28571429	-19	-16	0,0200926	18,05	-21,348315	-0,59375
>ofa_animal -miR-234	UUUAUUUUAUUGCUUGAGAAUGA UUGAUUAGUAUUUCAGUACCAGAG UUGAUCAUGAUGAAGCAAUAAAGA UUUU	76	18,4210526	31,5789474	7,89473684	40,7894737	26,3157895	72,3684211	1,29166667	2,33333333	-21,8	-19,9	0,295223	2,24	-28,684211	-1,09
>ofa_animal -miR-8335-2	CUUGACAAUGCUUGUUGUUGUUG UUGUUGUUGUUGUUGUUUUCUUA ACAACUGCAUACGAAGAACUACAAU GCAAGACAAGAUUUCCCA	90	18,8888889	25,5555556	16,6666667	37,7777778	35,5555556	63,3333333	1,47826087	1,13333333	-21,3	-11,37	0,0316768	33,81	-23,666667	-0,665625
>ofa_animal -miR-430b-2	ACCCACAACACUACCUACACCAACUG AGACACAACCUCGCAUUUGUAAUAC AGCAAAGUGCUAUCAAGUUGCUGA AGGUUUGUUAUGAAG	91	16,4835165	34,0659341	25,2747253	23,0769231	41,7582418	57,1428571	0,67741935	0,65217391	-19,7	-18,3	0,106808	6,22	-21,648352	-0,5184211
>ofa_animal -miR-2795	AGACAAGUUUGGUGAUACGCCUUU CUUGUAUGCUUGUGGCAUGGCCUA UUUCUGUAUAAACGAAGAAGAGUU UGCACAAAACCUGCCA	89	22,4719101	26,9662921	19,1011236	30,3370787	41,5730337	57,3033708	1,125	1,17647059	-20,6	-19	0,111538	11,67	-23,146067	-0,5567568

>ofa_animal -miR-4525	UAUUAGAAAGCUGCAUGUCAUCUC GUGGGGGUGGGGGGGGGGGGAUG UGCAUGCCCUGCACCCUCCCCCGAG AUCUGCCCCUGUCUAGGC	91	35,1648352	14,2857143	27,4725275	21,978022	62,6373626	36,2637363	1,53846154	1,28	-38,7	-10,8	0,0370408	29,47	-42,527473	-0,6789474
>ofa_animal -miR-359	AGGGGAACUUGAAAGUGCUAACUU UUCAUUUUCACUGGUUUUCCUCUG AAAUUCACUGUGAACUUGAAACGA AAACAGUUUCAAAGUUCCUGC	94	18,0851064	28,7234043	19,1489362	32,9787234	37,2340426	61,7021277	1,14814815	0,94444444	-27	-27	0,12502	7,9	-28,723404	-0,7714286
>ofa_animal -miR-3851q	CUUUACAGACUCUAUGGCCAGAUG UUAUUGGACAUUGUUUAAGUGAAG AAGACUGUAGACAAUGUGCCAUAA AUGUGAGUACAUUUAGUAUGUAU UU	98	21,4285714	30,6122449	12,244898	34,6938776	33,6734694	65,3061224	1,13333333	1,75	-25,5	-24,2	0,0837223	7,96	-26,020408	-0,7727273
>ofa_animal -miR-153	UGAGCAGUCUAUUAUUUCAUAUGU AAAGUCAUUUUUGUGAUGUGCAAA AUUAACUUUACAAUGAAGAAUAAG UGCAAA	79	16,4556962	36,7088608	10,1265823	35,443038	26,5822785	72,1518987	0,96551724	1,625	-20,6	-19,5	0,25208	3,04	-26,075949	-0,9809524
>ofa_animal -miR-2386	AGAAAAUAAUGGUUUUCUGAAACG AAAUCAAACGCUUAACUGUGGUCU CACGAAAGUGUAGUGUGUUUGGUU UUUCGUUUCAUGGCGAAUUAUUUG UU	99	22,2222222	27,2727273	12,1212121	37,3737374	34,3434343	64,6464646	1,37037037	1,83333333	-25,7	-21,8	0,00460121	26,01	-25,959596	-0,7558824
>ofa_animal -miR-99a	UGAGUUUGAGUGGAUUAUAAAACC CGUAGAUCCGAUACUGGUUUACCC UGACAUGUGAUAAAGCGAUUAACG CGUUUUAAAGUCACUUAAACGGA	96	21,875	31,25	16,6666667	29,1666667	38,5416667	60,4166667	0,93333333	1,3125	-24,6	-23,1	0,0895187	8,88	-25,625	-0,6648649
>ofa_animal -miR-7162	AAAGUGCUUCCUUUCUCAGCCAUU UCUGAAAGUUGCGUGGUUUUGGAA UUUGAAUUGCCUGGUUAGCAGGUU AAAUGAAUGAAAACAGAAGUCACAU U	99	22,2222222	28,2828283	15,1515152	33,3333333	37,3737374	61,6161616	1,17857143	1,46666667	-19,9	-16,2	0,083039	20,98	-20,10101	-0,5378378
>ofa_animal -miR-8304b	UUACUAUGUAGAGAGAAAAUAGAU CUAGAUAAUUCUGGAAAUCAAGAU UGUCUCGUCGAUUGUCAUUUUCAC UAAUACAUAGAUU	86	16,2790698	34,8837209	12,7906977	34,8837209	29,0697674	69,7674419	1	1,27272727	-18,8	-14,9	0,100077	17,4	-21,860465	-0,752
>ofa_animal -miR-10499b-3	CCAAAGGGUUUCAAACUACUGAAAC UGGGUUUCUAAAGGGUUUCCAAGG GGUCUCUAAUGAGUUUCUAAAGCG UUUCAAAAGGGUUUGAAACUCCUU GAG	101	23,7623762	28,7128713	16,8316832	29,7029703	40,5940594	58,4158416	1,03448276	1,41176471	-27,6	-23,3	0,0176949	20,33	-27,326733	-0,6731707
>ofa_animal -miR-146a	CAACUGGCGUGGCUACCUUGCCAU AUGGUUCUCAGAAAGUUUAACUAC UGAUAACGGAAUGCCAGGGCUUGC CAACUGCAGAGC	85	24,7058824	25,8823529	24,7058824	23,5294118	49,4117647	49,4117647	0,90909091	1	-24,3	-20	0,0913564	18,95	-28,588235	-0,5785714
>ofa_animal -miR-133b-2	GGCUUGACAAAAUGAGCUGGUCAA AGGGAACGAAGACACUGGUAUGAG GGUGGUUUAAGCAUCCGUUUGCUU GUUUAUUUUUCAAUUU	89	26,9662921	25,8426966	13,4831461	32,5842697	40,4494382	58,4269663	1,26086957	2	-22,4	-22,4	0,181231	4,77	-25,168539	-0,6222222
>ofa_animal -miR-9286	CCGGUUUUCAGAGCUAAAGUUUGC UAAUUUUCAUCUUAAUUUCUGCAU AAUUAAUGAGGCGAACUUCGUCUU CUAUUUUUGCGAAUUUCUCGAAAA CUGU	101	15,8415842	24,7524752	17,8217822	40,5940594	33,6633663	65,3465347	1,64	0,88888889	-22,3	-21,6	0,105229	15,76	-22,079208	-0,6558824
>ofa_animal -miR-8802	GAUAUUCUUCUUUAUUCAACUUCC UAUGUUUUUGAUGUUUCUCUUUU UGUUUGAGGACAUAUCAGCCAUCG AAGAUGCAUGAAGUAGUAAUUUG	95	16,8421053	23,1578947	14,7368421	44,2105263	31,5789474	67,3684211	1,90909091	1,14285714	-19	-19	0,132176	8,06	-20	-0,6333333
>ofa_animal -miR-190	AGUUUAUCAGGUAGGAUGCUACUC UUGAUAUGUUUGGGUUAUUUAAA UAAACAUAACAAACGAAAGAUAAAC AUGGUCAUCUCUUCGCUGAUAAGU U	98	18,3673469	33,6734694	13,2653061	33,6734694	31,6326531	67,3469388	1	1,38461538	-19	-19	0,109158	9,28	-19,387755	-0,6129032

>ofa_animal -miR-11624d	GAACGAGUCUAACCUCGCAUUCGUA UUGGGACUUUAGCAUGCUGGGGGC AAAACAAACACAAGAGGUCCCACAA GCCACUGCGCGAAGAGACUCGCCU	99	25,2525253	29,2929293	27,2727273	17,1717172	52,5252525	46,4646465	0,5862069	0,92592593	-28,1	-26,3	0,148819	13,4	-28,383838	-0,5403846
>ofa_animal -miR-6576	CUAUAAUAAGUGUCUGUAUUCCCU CUUUAUAGGUGUUUGCCCUGACAA GUAUGGGGCGAGGAGAAGCAGCCA UUAUUACAA	82	23,1707317	26,8292683	18,2926829	30,4878049	41,4634146	57,3170732	1,13636364	1,26666667	-19,4	-19,4	0,0350926	14,43	-23,658537	-0,5705882
>ofa_animal -miR-1989a-1	UAAAAACCGUUCAAAUUUCCCUUCA AUGGUGUUAAAAGAUCUUGAAAGC AUUGGAAAAGUCGUUAAAGGGAAA UGUUGACUGUUUAAG	89	20,2247191	35,9550562	12,3595506	30,3370787	32,5842697	66,2921348	0,84375	1,63636364	-18,5	-17,2	0,0332158	15,93	-20,786517	-0,637931
>ofa_animal -miR-519e	UUUGUGACGACAACCCUUUUGGUG AGAGCUUCCUCCCCUUAUUUCUCCA AAAGGGAGCGUCUACUCC	68	19,1176471	19,1176471	29,4117647	30,8823529	48,5294118	50	1,61538462	0,65	-21,8	-21,8	0,54046	2,2	-32,058824	-0,6606061
>ofa_animal -miR-2424-1	AAGGGAUUUUUGAAGGAUCUUGCA AAGAUCUUUGGUAAUCUUUGCUAG GAUCCUUAAAGAUCCUAG	67	22,3880597	28,358209	13,4328358	34,3283582	35,8208955	62,6865672	1,21052632	1,66666667	-31,5	-31,5	0,228962	2,72	-47,014925	-1,3125
>ofa_animal -miR-7326	AUCCUGUCAAUUAAGUGUGGAGGA GAGAUUCCAGUUGGAGUAGAGCCA CACUCAGCUCAUCAUCUUGAUUCAC AGAGG	79	25,3164557	27,8481013	20,2531646	25,3164557	45,5696203	53,164557	0,90909091	1,25	-20,5	-20,5	0,228345	10,41	-25,949367	-0,5694444
>ofa_animal -miR-10499b-2	GGGUUUCUAAAGAGUUUCAAAGGG UUUCCAAAGGGUUUCCAAGGGGUU UCUAAUGAGUUUCCAAAGCGUUUC CAAAGGGUUUGAAACUCCUUGAAA CCU	100	24	27	17	31	41	58	1,14814815	1,41176471	-27,6	-21,65	0,0143115	16,04	-27,6	-0,6731707
>ofa_animal -miR-9607	UACAAAUUAUGGCUCAGAAGAGCA GCAGAACUCUUUGACUCAAGUUUG GUUGUCUUAUGACAAUAUUGCUCU GGUUAUGACCCAUAUUUAAC	93	18,2795699	29,0322581	18,2795699	33,3333333	36,5591398	62,3655914	1,14814815	1	-21,2	-18,6	0,0306567	18,46	-22,795699	-0,6235294
>ofa_animal -miR-8398	UUUUAGCCCCUGGGAAGGGGUAUA GUUCUUUCUUUUUAGCCCCUAGGA AGGGGUAUGGCUCUUUCUUUUAAA CCCCUUGGAAGGGGUAUGG	92	28,2608696	17,3913043	18,4782609	34,7826087	46,7391304	52,173913	2	1,52941176	-33,8	-33,8	0,392819	14,17	-36,73913	-0,7860465
>ofa_animal -miR-2022	UAAAGAAAUGGGCAAAAGUAUCAA GCACAUGUUCAUCGUUUGCUAGUU GCUUUUGUCCCGUUUCUGGA	69	21,7391304	26,0869565	17,3913043	33,3333333	39,1304348	59,4202899	1,27777778	1,25	-28,7	-27,9	0,712484	0,92	-41,594203	-1,062963
>ofa_animal -miR-737	CUUUGACUGAACUCUUCUGCUACG UGGGUUCCAGUAUUUUAAUUUGAA CAAUCAAAAUCUAAAGAGCUUACAU GUAAGAGUUGAGUUCAUGU	93	18,2795699	29,0322581	16,1290323	35,483871	34,4086022	64,516129	1,22222222	1,13333333	-22,8	-18,1	0,04283	18,62	-24,516129	-0,7125
>ofa_animal -miR-10499b-1	AAAGGUUUCCAAGGGGUUUCUAAU GAGUUUCCAAUGUGUUUCCAAAGG GUUUGAAACUCCUUGGAACCCCUU GAAACCAGG	82	23,1707317	26,8292683	19,5121951	29,2682927	42,6829268	56,097561	1,09090909	1,1875	-34,1	-33,2	0,0414764	8,35	-41,585366	-0,9742857
>ofa_animal -miR-7282	UUGUUUGGUGGCUUUGCCAUGUU GCUGUGGAUUGGAGCUAUUCUCUG UUUCUUUGCCUACGGCAUUCUAAU AGCUACAGAGGAAGAGCCACCGAAA GAU	100	26	20	19	34	45	54	1,7	1,36842105	-36,2	-36,2	0,0500997	9,23	-36,2	-0,8044444
>ofa_animal -miR-4162-2	GAAUAUUGUUUCAUUAUCAUUGUU UUGCUGUAGCUUAUCCUCAGUUUG GCUACGGAGAGACAACACAAGAAGG UAAUCAACAAGUACGC	90	20	30	17,7777778	31,1111111	37,7777778	61,1111111	1,03703704	1,125	-19	-19	0,10952	8,33	-21,111111	-0,5588235
>ofa_animal -miR-4162-1	GAAUAUUGUUUCAUUAUCAUUGUU UUGCUGUAGCUUAUCCUCAGUUUG GCUACGGGGAGACAACACAAGAAGG UAAUCAACAAGUACGC	90	21,1111111	28,8888889	17,7777778	31,1111111	38,8888889	60	1,07692308	1,1875	-21,4	-21,4	0,155768	7,33	-23,777778	-0,6114286
>ofa_animal -miR-3073b	GACAGCGACUGCAGAGAAUGGAUG GAUGGUCACAGUGGACAUGCCUAA CCCUUCUGCUCGCAGAGCUUUA	71	28,1690141	25,3521127	23,943662	21,1267606	52,1126761	46,4788732	0,83333333	1,17647059	-19,7	-19,7	0,188396	11,06	-27,746479	-0,5324324

>ofa_animal -miR-2473	UCAAAAAAUUGGCAGAGCUUCAAG AAAAGGUUAGAACUGCAUACUCGC UUCGCGAAGCUAGCUGUACAAUUU UUAUA	78	19,2307692	34,6153846	17,9487179	26,9230769	37,1794872	61,5384615	0,77777778	1,07142857	-18,6	-15	0,209652	5,82	-23,846154	-0,6413793
>ofa_animal -miR-14	CGAAGAGAAGAACCAGGAGAAAAG GGGGAGGAGGGGAGGGGAGCGAGA CGGGGAGACGCCUUAAACCCCACCC CAUUUUCCCUCGGCCACUUCACUCU C	100	33	28	27	11	60	39	0,39285714	1,22222222	-36,6	-33,8	0,117192	11,66	-36,6	-0,61
>ofa_animal -miR-2114	GGAUAACGCAACCUCGCUCCCAGGG CCUUUUCCCUGGCUUAGCCUCAAGC AAGGGAAAAGGCAUUGGGAAAGAG GUUGCGUAUAACG	88	28,4090909	26,1363636	25	19,3181818	53,4090909	45,4545455	0,73913043	1,13636364	-53,8	-53,8	0,238474	2,65	-61,136364	-1,1446809
>ofa_animal -miR-9575-2	CCUACUAGCAUCUUUGCGGUUCUU UUCUCAAAAUGGAAACACAAGAAAC CUUUUGUUUUUCCAUACAAUGAAA CCAACGCAACAGUGCAAGUCUC	96	13,5416667	31,25	25	29,1666667	38,5416667	60,4166667	0,93333333	0,54166667	-25,9	-25,9	0,168684	5,02	-26,979167	-0,7
>ofa_animal -miR-9575-1	UAUGUGUGCAUGUGCAUGUCAUAU GACUUAGCAUAUGUGUGCAUGUGC AUGUCAUGUAAUGCAAAUGUACAC UCG	76	23,6842105	25	15,7894737	34,2105263	39,4736842	59,2105263	1,36842105	1,5	-32	-32	0,557559	1,87	-42,105263	-1,0666667
>ofa_animal -miR-7678	CGUCGAGGAGGGGUGACUAAAUUU GUGUUCUGUAGUUUCCUUACUUUC UCUAACCUGUGUUUAAGCAGAACC AUAUUUUCGACCUUCUUCGUAA	95	20	21,0526316	20	37,8947368	40	58,9473684	1,8	1	-23,9	-22,2	0,0506773	7,18	-25,157895	-0,6289474
>ofa_animal -miR-130a	GUUUUUCCAUUGCUGCAAUUAAAA GCGAGGCACAUUUUGAAACAACUAC UACUCCUGCAUUCAAGAUGUAUGC CUCUUGAAUCAGUGCAAUGUCAAA AUC	101	15,8415842	30,6930693	21,7821782	30,6930693	37,6237624	61,3861386	1	0,72727273	-23	-20,3	0,0357053	10,23	-22,772277	-0,6052632
>ofa_animal -miR-11662	AAACCCGAAACCUGGUCAAAUGUGG UUCAAAUGCUCUCCGCUUGGAGUC AACUCCUUGAGAAGCAUGCUCAAGA ACAUGAUAAGAGAUUCGGGCCU	97	22,6804124	29,8969072	23,7113402	22,6804124	46,3917526	52,5773196	0,75862069	0,95652174	-27,2	-25,6	0,0677761	7,16	-28,041237	-0,6044444
>ofa_animal -miR-7552	AACAUCAAGAAAAUAUCUCUUAAU UGACGAAUGUCAAUUCGUCAAUUA AGCCCUAUUUCUUGAUUCG	68	11,7647059	33,8235294	19,1176471	33,8235294	30,8823529	67,6470588	1	0,61538462	-25,6	-25,4	0,173808	3,83	-37,647059	-1,2190476
>ofa_animal -miR-10280	GAUAUAGCUUACGUGUAGCGGUAG CCAGCCCCCGAGAAAAAACGGGUGG GAGGGAGGGAGGGAGGUUACGGCU ACACGUAGGCUAUGGC	90	38,8888889	25,5555556	18,8888889	15,5555556	57,7777778	41,1111111	0,60869565	2,05882353	-46,9	-46,9	0,597641	2,53	-52,111111	-0,9019231
>ofa_animal -miR-4155	ACAUAAGAGUGCAUUUUUUGUUCU GUUUGUGUUAAUCCUGGCUUUGG GUGGGAUUUACCCGUACAGAAUCC AACAAUUUACAUUUAAAU	90	18,8888889	25,5555556	15,5555556	38,8888889	34,4444444	64,4444444	1,52173913	1,21428571	-19,4	-11,6	0,0215117	19,05	-21,555556	-0,6258065
>ofa_animal -miR-7252	AUUUGGAUAAAGAACAAGAGUAAA AUAAAUGUCACUCUAAGUAAUGUU AUGUACUUACAUGUACCGCUGCUC AUUUAGUUUUGUUCAUGGUCCACU U	98	16,3265306	31,6326531	15,3061224	35,7142857	31,6326531	67,3469388	1,12903226	1,06666667	-19,5	-13,78	0,0976478	17,54	-19,897959	-0,6290323
>ofa_animal -miR-1788	ACGGCUUGUUUUCAGUUGUUUAAU UGCCUUUCAGUUAUCAAAAUGUUG UACUGAAUAGCUUUGAAAAUAUGU AUAGACAAGCAGG	86	19,7674419	29,0697674	12,7906977	37,2093023	32,5581395	66,2790698	1,28	1,54545455	-20,1	-19,6	0,0891389	9,87	-23,372093	-0,7178571
>ofa_animal -miR-449a	AUAGGCAUACAACUGAACUGAAAA GAACUGGAUGUAAACUUGUUAAGA GCGCUGACCAGGCACUCUUGGCAG UGUGUGUUAGGUCAGCUCAAUGCC ACU	100	25	30	20	24	45	54	0,8	1,25	-28,2	-21,3	0,052587	16,98	-28,2	-0,6266667
>ofa_animal -miR-374b	UUGGGCCUGGGUUGUAUUAUCAU UGUGUUGUGUUUCUGGGCAAGACA CUGCACUCUUACAGAGCCUCAUGUC	99	21,2121212	29,2929293	20,2020202	28,2828283	41,4141414	57,5757576	0,96551724	1,05	-23,4	-11,56	0,0232026	27,52	-23,636364	-0,5707317

	AUGAAUAAAAAAAAACCCAAGCCAAA															
>ofa_animal -miR-125	UAAUGACCGGCACCAAGGUAAAUAGUGAGUUUCCCUGAGACCCUAAAUGUUGAGAUUGAGGGGAGAAAAACUCACUGUUUCCCAUGAGGCCAGUCAUUA	100	24	31	20	24	44	55	0,77419355	1,2	-40,5	-29,3	0,0580357	13,39	-40,5	-0,9204545
>ofa_animal -miR-9186f	UACCAUGUGGACACACAUACUGCCAGACAUGCUUGCAGGACUGCAAGAAAUGCCCAACUUGUCAGACAGUUGUGAAGUCAACUGCAG	88	22,7272727	30,6818182	25	20,4545455	47,7272727	51,1363636	0,66666667	0,90909091	-21,7	-14,7	0,326733	23,05	-24,659091	-0,5166667
>ofa_animal -miR-133b-1	AAUCUCGUACCUCGUCUUCGUUCCUUACUGUGCAUGCUGGCUUGACGAAACGAGCGCUGGUCAAAGGGAACGAAGACGCUGGAUACGAGGGU	93	29,0322581	22,5806452	23,655914	23,655914	52,688172	46,2365591	1,04761905	1,22727273	-42,1	-42,1	0,161384	5,15	-45,268817	-0,8591837
>ofa_animal -miR-10929	CGGCCGUUACCAGGGUCGUCACGCAACGCACCCAUCACGCGACCCUCCUUGAAGGUGUAGCGUUGUGUGACUGCAGAGAUAACGGUUA	89	28,0898876	21,3483146	29,2134831	20,2247191	57,3033708	41,5730337	0,94736842	0,96153846	-37,5	-36,2	0,268981	2,61	-42,134831	-0,7352941
>ofa_animal -miR-6334	UCGAAACAUGACGACCUCGAUCCCAGGCUCUCCCAGCUCUGUCUCCUUUGUCUCCCUUUGAAGAGAGCCUGAGAUCGAGGUUGGAAUUUUGUU	94	22,3404255	19,1489362	27,6595745	29,787234	50	48,9361702	1,55555556	0,80769231	-37,7	-31,8	0,0472993	8,06	-40,106383	-0,8021277
>ofa_animal -miR-1405	AUACAGUAUAUUAAAAAUGGCCUAUUGUUCAAUGUCAGUGUUGUUGUCCAACCAGUGAUGCAGCAACAGCCAUUUUACUAUUAGUGGCA	90	18,8888889	30	17,7777778	32,2222222	36,6666667	62,2222222	1,07407407	1,0625	-19,2	-14,4	0,0353844	15,6	-21,333333	-0,5818182
>ofa_animal -miR-4000e	GGUCUAAUCCUGACUAAUUUGUCUUGAAAAUUUUCAUGGCAAAUUAAAGGGCUGUUUACUUUCCAAUGAAACUUCUUCGGAAACGUCAGCACUUAGGUU	100	18	28	18	35	36	63	1,25	1	-23,7	-22,1	0,0316341	12,87	-23,7	-0,6583333
>ofa_animal -miR-466i-2	UGCCACGCAUGCAGACACUAACAGUCUUCAAGUGUGGCCAGUUCAUCUGAAAAAAACGAUCUCUGGUUUUUUGCUUUGUUUGUGUGUGUGUGUGUGU	100	25	20	18	36	43	56	1,8	1,38888889	-32	-32	0,0834012	10,8	-32	-0,744186
>ofa_animal -miR-7157	CAGAUCUAAUGAAUUGUUAGUCAAGUGUGCUGGCCAGCUCGAUGCUGCGAUUGCAUCUCUUGAUCCAGAUCAGCAUUCAUUGGCAUUCA	90	22,2222222	23,3333333	22,2222222	31,1111111	44,4444444	54,4444444	1,33333333	1	-24	-21	0,0265686	10,22	-26,666667	-0,6
>ofa_animal -miR-430b-1	CAUUCUUAAUUCUCUUCUAAAGUAAGAUUGUGAUAAAUAUGAUCUGUGUGGGAAAACAGCCACUGUGCAACUCUAACUUUAGCCUGAGGAAAAAAGAUCA	101	17,8217822	34,6534653	16,8316832	29,7029703	34,6534653	64,3564356	0,85714286	1,05882353	-20,2	-19,6	0,0901875	12,19	-20	-0,5771429
>ofa_animal -miR-7950c	CCAUUAAUUCGAGUUCAUGUUUUUUGACUAAGUGAUGACUAUGUAAUUAUUGACUCAAGCUAAGGUCACGAUAACAAGAAUUUUCGAGUUAACGC	96	17,7083333	31,25	15,625	34,375	33,3333333	65,625	1,1	1,13333333	-19	-18,6	0,0196262	9,35	-19,791667	-0,59375
>ofa_animal -miR-6776	GGUGAUUCCAGAAAAUAUCCACACCUAUGCCACGGGUGGCUUUUUGGAAUUCUGGGUGCAGUGGGGGGGUUCUUUGUACUGGAAGUCCAA	91	30,7692308	20,8791209	18,6813187	28,5714286	49,4505495	49,4505495	1,36842105	1,64705882	-27,4	-26,9	0,176239	14,32	-30,10989	-0,6088889
>ofa_vegetal-miR11304	GACCCCUUUCUUAAAAGUCCUGGUAACUUUACGAACCCGAAGCCAUAUUUUAAGAUCUAAAUGUAAGGAAUAGUGGGGCGUGUUUCAGCUCAAAAAUCAGUGGAUUCAUUUUUUGUUUCCGGAUAUUUUUAUUGUCUGAAUUUCAAAACUAUGAAUGUCUUGAUUGUGA	239	19,2468619	32,2175732	17,9916318	30,125523	37,2384937	62,3430962	0,93506494	1,06976744	-60,6	-51,41	0,00188692	30,05	-25,355649	-0,6808989

	AUGUAGACACAACAAACAAAAAACA GCUUUUCGGAACCGGUAACUACCG GGACUAAUCGAAAAAGGGACC															
>ofa_vegetal-miR11411b	UUCAUCUUGGCACAGCUUAAGUGC UGGCAGUUGACCUCUGGGCAGCGG UUGGCAUGUACCAAGAUCUG	69	28,9855072	18,8405797	23,1884058	27,5362319	52,173913	46,3768116	1,46153846	1,25	-25,4	-25,4	0,301836	3,05	-36,811594	-0,7055556
>ofa_vegetal-miR3267	GUUCCUUGCUCGUGCUCGGCACAU GCUUAGCCUAAGAUGUCAGUCAUC UGUCGCCUGGGAGAUGGCUGACAU UUCACGCAAGUGCUCAUAUGCGCU UUGCCUCGUUUUCGCUGUUUCCUC AGUCUGCAGCGGUGCCUGAGACGA AGCAGGUUU	154	26,6233766	15,5844156	26,6233766	30,5194805	53,2467532	46,1038961	1,95833333	1	-64,9	-52,7	0,0173472	16,35	-42,142857	-0,7914634
>ofa_vegetal-miR8041b-2	UUGAAUCUAUAAUGGGUGAAAAAA UUGUUGAGACGCUUUGCUAUUUUA GAUUACUUAAGACGAAUUUGACCC CUCAACUCUAUACGAUACUACACCC UCCCCUCUCUUUCCUGUACAACAUU GAAAAGGGGAAGGGGUGUGGCUUU CAAAAUAAACUGAAUUUGAAAUGG AAUAAUUGAAAUAUUACAAUUAGC ACUCGAUUCAGUCGACUGCCUCAAU UACUUUUGUCACCCAUUAUUGGUU UAC	247	16,5991903	30,7692308	19,4331984	32,7935223	36,0323887	63,562753	1,06578947	0,85416667	-67,7	-64,8	0,0004529	26,95	-27,408907	-0,7606742
>ofa_vegetal-miR8640	UAAUGAGCUGAGCAAUGAUAGAAA UAAUCUUACAGUGAACUGAAAAGU UCAGUGGAAUUCCUGACGACAGUU AAGUGAAUUGUUUUGUGCAACAAA GCCUUAAGUGUAUAAUUACAUCUA CAGGAAUGGAACUGUUCACUAGUA CUGUUGUUACAUCCAUUUGUCAUA CUCAGAG	176	19,8863636	33,5227273	15,3409091	30,6818182	35,2272727	64,2045455	0,91525424	1,2962963	-47,2	-45,8	0,0166117	18,26	-26,818182	-0,7612903
>ofa_vegetal-miR395o	AAACAACCUUGACUGAUGGGAAAG GUUUAAAUGGCUAGCAUUGCCUAC AAGCAAGAUGAACCAAAUCCUGCAC UGUGGUUGGUUAACUGAGUGGGC AAUAUGGGACAAUCUUUCCUGCUU GGGAUUGUCUGUUGCAUUCCGCAA CAAAAAGAGUCCUCUAUGCCAUUAA UAAAAUCCUUUACCGACCAGGGAAG UUGCAU	201	22,3880597	29,8507463	20,39801	26,8656716	42,7860697	56,7164179	0,9	1,09756098	-58,6	-39,7	0,00099315	29,96	-29,154229	-0,6813953
>ofa_vegetal-miR1520m	AGUACCCAUUUGAGAGAGAGGCAC UUGUGAGAGUUAAGUGUCUUGCCC AAGAAGGCCAGGGCUUAAACCUGA GGCACUCAAUCUGGAGUACGGUGU GCUAACCACUGGACCUCUACACCCA AGGAGUGGGAGCUUCAUAAAAAAA AUACAGUAAUCAGAACAUGACAUAC CACAGUUAGCACAGCUUGCUGCUC UCUUAGCAGCAGAAGAAUCAGCAUC UCUGUUUGCCUUGUGCAGCAAUAA CCUUAUCUCGGGUGAAGUCCUCGC CUGAUCAAAUGGUGUUUU	286	23,4265734	28,6713287	23,0769231	24,4755245	46,5034965	53,1468531	0,85365854	1,01515152	-90,5	-81	0,00048314	26,37	-31,643357	-0,6804511
>ofa_vegetal-miR7495a	GUGAACAUGAGUUCUCAGAACAUG UCAUAGCUACUGUAAUUAUUUGUG UACCUUGAGUAUUCUUUGUUUUU UUCUUUGUGUUAAAAAAGCAAGAG UGAGUCUGUUAACUCUUUAAAAUU CGUGGACUUGGCAGAGUGUUGAUG UCAGGAUGCUCAGCACAUGGAUAG UGUGCCCGUUCUAGGAAUGGCACU CGUUCUCUAAAAUGGGUACUUUUG	267	20,9737828	24,7191011	17,2284644	36,7041199	38,2022472	61,423221	1,48484848	1,2173913	-73,3	-67,5	0,00061121	40,97	-27,453184	-0,7186275

	ACUUGUCCUUCAUUAAAUAUCUGC CAGACAAUUUCUUGAACCCAUGUU GUC															
>ofa_vegetal-miR11144	GUUGACUGUCAGUUGGUCAAAUAU ACUCCGCUGCGUUCUAUUUUGGAC UGUGUUCUCGGUGUUUGGAAAUG UGGUCAGACACCAUUUUCCCAGUU UGAUGCAUUCUUCUCGAUGGAAGC UAAAACCAGGGAGAAAAUGGACCAA UGAAAUCGUA	155	23,8709677	25,1612903	18,7096774	31,6129032	42,5806452	56,7741935	1,25641026	1,27586207	-38,7	-33,3	0,00680804	34,64	-24,967742	-0,5863636
>ofa_vegetal-miR5376	UAUGAAAUGUUGAAGAUUUGAUG GAUUUGGGAAAUUGAAAUUUGAAG UGAAGAAUUUGUAGAUGUUCACCA AACAGUCCCCUACAAACCUGAGGCU CUCUUUUUUUUUGUGGGGGGAGGG UCAACUGUCUGUUUCCAACCCAUU UUUAUCUUAACAAUUCCCU	163	20,8588957	26,993865	16,5644172	34,9693252	37,4233129	61,9631902	1,29545455	1,25925926	-42,3	-42,3	0,0113273	26,2	-25,95092	-0,6934426
>ofa_vegetal-miR482d	CAAUAGUUUUUGUGCUAUCUUGCA AAGCGAUGGAAUUGACCCCAGUGA GUCGUGAAAGGUCGUGAAAAACGC GAACAGGUUCGACCACAUAUAUAAA AAAAAUCACCUCUAGUAGAUGGCU AGUGAGGAAAAAUGGCAGUGUAGG AAAUAUCUCUCUAUACUCCUUGUA ACUAACUACUUACUGUCCACACGAA AGCACAAGAUUGCUUUAGUAUAAA AGACUUCCGAUGAUAGUAAUCGUC UUUAUUUAGGAAGAUAGCAAUUGA AACUAAAC	275	19,6363636	35,2727273	17,8181818	26,9090909	37,4545455	62,1818182	0,7628866	1,10204082	-66	-59,5	0,00030806	45,61	-24	-0,6407767
>ofa_vegetal-miR4355	UGACCGGAUAGCAUAACAUUGUAA GAGAUCUUUAAGAGCUCUUGCACU GUUGUGCUGCCCGGAAA	66	24,2424242	27,2727273	19,6969697	27,2727273	43,9393939	54,5454545	1	1,23076923	-33,7	-33,7	0,552701	1,08	-51,060606	-1,162069
>ofa_vegetal-miR5275	GACCUUGGCUCUGGAGGCACAUGA UUUGAUUGGCUAUAUUCUUGAACA AAGAUUUUCAGUGAUUCAAUCCUU GUUUGAUCAAUAAAGCAUUUGCCC AGAGCACCAAGAAC	111	19,8198198	28,8288288	19,8198198	30,6306306	39,6396396	59,4594595	1,0625	1	-26,5	-23,3	0,0104344	17,88	-23,873874	-0,6022727
>ofa_vegetal-miR7509	GUAAAAACGUACAAAAUGAAGUUU CGAGCUCGGGUUUUCUGUGAGCGA AUAUUCGGCGUAGACGAGUUAACU AUCACUCAUAGAAAACGAUGGCGA GUAGUCUCAUUGUUUUAAUAGACA CUCUAAAGGAUUUUUUUACAGCCC GAAACCUCCAACUUUGUGUCAUUU UAAA	173	19,6531792	31,2138728	17,9190751	30,6358382	37,5722543	61,849711	0,98148148	1,09677419	-41,1	-39,9	0,00763454	31,63	-23,757225	-0,6323077
>ofa_vegetal-miR9566	AUCUUCUUGACCGAGUUGUAAAUC AAUUUUCUGCUUAGCGUUGCGUUG ACAAGGUAGUCGUGCUGAGUGGUU AAGGCGAUGGAUUAGAAAUCCAUU GGGGUCGCCCGCGCAGGUUCGAAU CCUGCCGACUACGAAAAACUGAUGU CCAUUUUCCUUUUGCACAGAGAAU GUUAUUUAGUAUUUGGCAAUAAUC A	195	24,1025641	24,6153846	18,974359	31,7948718	43,0769231	56,4102564	1,29166667	1,27027027	-51,3	-35,3	0,00323294	63,01	-26,307692	-0,6107143
>ofa_vegetal-miR2619b	UGGGGUCUCCCCGCGCAGGUUCGA AUCCUGCCGACUACGAAGAACAGAU GUCUAUUUUGGCUUUUCACGGAGA AUGCUUUUGAUUAUUUGGCAAUAA CCAAGUCCGAACGCGUUGUAUCUU CGAACCUGCGACGAGUAAGACCUGA	147	24,4897959	23,8095238	23,8095238	27,2108844	48,2993197	51,0204082	1,14285714	1,02857143	-48	-43,5	0,0488598	17,35	-32,653061	-0,6760563
>ofa_vegetal-miR1171	AAAACAGGAUUUCUGACCGACAGGC CUCCGCUUCAAUCGAGUAUAUAUA	309	25,566343	27,184466	20,0647249	26,8608414	45,631068	54,0453074	0,98809524	1,27419355	-97,3	-92,8	5,80E-05	42,52	-31,488673	-0,6900709

	UGAGUGUAAGCAGAAACCCAUAACC ACUUAGGGGUUACUGAUGUAAGAA AUCUGAGACUGCGCAUAUAUGAAC UUAGUUAAGUAGAGUGGAGUGGA GUGGAGUGGACUGGAGUGGAGUG GGUGUAACGGUGUAACGGUGUAAU AAUCAUCGCGAACUUUUUAUUUUA CUCAGGUCCAACGCCAAAAGGCCCG ACCAUUGUCUCUGCUCCGGAGGUC CUUGCAAGGACUUUCUCUACUGUC AAUCUGACAUGCCUGUCUG															
>ofa_vegetal-miR5380b	AAACUUUUGCCCAGCGAGUGAAAA UGAAUGAGGAGGAGGAGGAAAGAC AAACGUUAUGCCUCUAGUUCACUU AUUUGGAUUAAACUUCUAGGUUUA AGGGUAUUCCUUGGGAACUUGUCU CAUCACCUAUCAGCUAUUUGAGUC UGUUAUUAUCUUUCUCAGGUCAUG GCAAAAGACG	179	22,3463687	28,4916201	17,3184358	31,2849162	39,6648045	59,7765363	1,09803922	1,29032258	-42,4	-30,6	0,00686096	45,01	-23,687151	-0,5971831
>ofa_vegetal-miR8594	AAAAACUGAAUGAAAUUCAGCCAU GUUAGCUUUCCGCCACUUAAUCUU UCUUAAUGUUACUUAACAUUCAAG GAAAGGUGUAGGCCGGCGGAUAUC UUCAGCAAAUAAAAUCAUUAAAUU CUGUCGAAUUUGACCACCUUGGAU CACACCUUUUCUGACAAAAUUAUU UUCCCGUGAGCCGAAAUCUAUGGU ACGCGCCUUGUGCCUAGCAUUGUU GAAUUUCUUUCAAUUAAG	235	16,5957447	29,3617021	20,8510638	32,7659574	37,4468085	62,1276596	1,11594203	0,79591837	-62	-51,1	0,00317247	36,04	-26,382979	-0,7045455
>ofa_vegetal-miR5827	UGUGGAAUCCUGUUAAGAGAAAUU UCAAUGUCUCUUUGCUCAAAGAUG AACAGAUAGAGGCUGCUGUUCAUC UCCUUUGGUCUAAAGAAGUUGUUG CAAUUUUGCCUACUGGCUUUGAGG AAGGUCUGAUAUAUCAACCCUAUG CAAUGGCAAAAGAAAUGCAAAUGU GCGAGUGUUGAACUGACAAAUGUA AGAGAUGAAAGAGCUUAAAUAGGAU UCCCUC	223	22,8699552	30,941704	16,1434978	29,5964126	39,0134529	60,5381166	0,95652174	1,41666667	-64,7	-56,7	0,00204671	47,58	-29,013453	-0,7436782
>ofa_vegetal-miR5063	UAAAAUGUUAUCAACUAAUAGACU UUUGGGUGGUUUUUUGUUUUUGU UAAACGGUUACCUUUAUAGUAACC CGCAAUCAGGGGUCCUUUUCUUUU AGUCAGUCAGCUGCUGGAAGCUGC ACAAAUCUACUUGGAAAAGGCUUU UGAGGUUAUUAACUUGCU	162	20,3703704	24,691358	16,0493827	38,2716049	36,4197531	62,962963	1,55	1,26923077	-37,5	-31,6	0,0261057	30,99	-23,148148	-0,6355932
>ofa_vegetal-miR5718	GCUUGCUUAUAUAAAUAUUGAAAC AAUAGCUUUUAUGUGAUUGGCCGU CUUGCACAUAACUCACACGCAGAUA UAGUUACAACACUAUAAAUAUCUU AGCCUCACCAUGGGACAUCUGCAAC GUUUUUUUCAAAAACUUACCAAUG CCCCAUAAAUGCCUGGGAGGGGGA UGGAGGGGCUUAGAGUUGACAGAG CCAUAAACACAACAAAAAAACUGCU AUGAUUUCAGAGGUUAUAUCUGCA UAU	247	18,6234818	33,1983806	19,8380567	27,9352227	38,4615385	61,1336032	0,84146341	0,93877551	-56,9	-55,5	0,00344101	32,06	-23,036437	-0,5989474
>ofa_vegetal-miR11078c	UCCUACCUCGGGUGUACUAUCAAU CAGAUUGCCCCUAGCAUUUAUGAA GUGCUUAUUCUGAUGGAAUACUGC CGAGGUAUGU	83	21,686747	22,8915663	21,686747	32,5301205	43,373494	55,4216867	1,42105263	1	-27,1	-27,1	0,181981	5,52	-32,650602	-0,7527778

>ofa_vegetal-miR169b	AAAUGGUAACUUGUCAAAUUACCU UCCUAUACGACUAUUUUCCUUUGU AAAUGUGGCACAAUUUCCGUUGAA GGACUGAUAAGAUGAGUAUGGAUC AAAUUGACACCACAGGUUCUUUUU ACGCGGAUGCGAAGCAAUCCGUGU UAGAAAUUAGAUCGAGUGUUUUU UUUUUUCUUCAUUGUAGUCGCAAA UAGCAAGGCAAGUUGUUGUUGGCU ACAGGUAAUUACAAUGUAGCCAAU G	241	20,746888	28,6307054	16,1825726	34,0248963	36,9294606	62,6556017	1,1884058	1,28205128	-60,5	-52,6	0,00018384	55,56	-25,103734	-0,6797753
>ofa_vegetal-miR2591	UCGCAGUUCACAUGAACCCGUAGAU CCGAACUUGUGGGAAUUUUCGCCA CAAGUUCGGCUCUACGGUACACGU GUGCUGUAC	83	24,0963855	21,686747	26,5060241	26,5060241	50,6024096	48,1927711	1,22222222	0,90909091	-44,6	-44,4	0,163431	5,78	-53,73494	-1,0619048
>ofa_vegetal-miR1850	AUUGUGGCUCACUGGGUGUGGCCU AUGGGUGUGUACAAAACCUGGGCU AGGCCAUGGCCAGGGCCAUGGUCCA CCCUGUGGCCUACCCU	90	32,2222222	15,5555556	27,7777778	23,3333333	60	38,8888889	1,5	1,16	-43,5	-43,5	0,14293	6,27	-48,333333	-0,8055556
>ofa_vegetal-miR8131	GUUGGGGCCAAGAACACCCAAAAUA GCUGAAUUUUUUUCAGCUAUAUUG AGUGUUCUCGUUCCCUCC	68	19,1176471	23,5294118	23,5294118	32,3529412	42,6470588	55,8823529	1,375	0,8125	-30,5	-28,4	0,219802	6,12	-44,852941	-1,0517241
>ofa_vegetal-miR10984a	GCAAACGGCGAACGGCUUGGGGUC ACGUGACCAGAGCUAGACGUCACGU UUGAGGUUUUCGACUCGCAUUUGA ACGUCAACAGGUAGGUUUUCACUU GAGUCAUUUACCUCACGCGUUACU GCCUUGAA	130	26,1538462	22,3076923	23,8461538	26,9230769	50	49,2307692	1,20689655	1,09677419	-38,7	-36,4	0,0680721	16,75	-29,769231	-0,5953846
>ofa_vegetal-miR9481a	UAGAGAGUACCUCCUGUGGUUUUG AUCAGUGUCUGCUUUCUCCACGCC UGCCACCGGUUGGAUGUCUUAGCU UCGAAUUCUGACUGGGUCAGUUCG UUAGCUCUUUGUUGUGAUUGGCCA AAUACGAUUCCUUUGGGUUUGGUU AAACGACUAAAAUGAAAAACUAAAA AUCUAAAUUAAAAAUUGGUUUAUG UAUUUCGAUCAACACUGCCGUAGG UAAUCUUGA	227	21,1453744	25,1101322	18,5022026	34,8017621	39,6475771	59,9118943	1,38596491	1,14285714	-56,9	-48,8	0,00174336	32,62	-25,066079	-0,6322222
>ofa_vegetal-miR8014-1	GGCUAUUCAAACUAUCCAUGAAUAC UAAGUUUGGAUAAAUAGUAGCGUG UGUUGCCGGUGAGUCGUUGAGUAA UAAUAAUAAGGCAUGCAUUGAAGA GGUGCAACACACAUGCAUGCCUUCA CACACUACUGAAACAUGAUCCCUAU UAUUAUUAACUGAGCACCUGCUAU GUACUGUAGGUUACUUAAUCAUCC AAACAUAAUGGUUUAUGUGAAGUU UUGAUAAAG	229	19,650655	32,3144105	17,0305677	30,5676856	36,6812227	62,8820961	0,94594595	1,15384615	-57,6	-47,5	0,00038462	55,41	-25,152838	-0,6857143
>ofa_vegetal-miR7776	UUAAAAUGAUUCACAUUCAAAUCA UUAUUAAUUCCUGCACAUAAGGCA UAAUUUUUUCUUAAUAGGAGCUCU AAGAAUUUGGUUGCUACUCUGUAA CCAGUAAUAUUUGCACUCCUUCUU UCCCUGCUUUGAAGUGCAUUGUUA CAGUAGGGACAUUAGAAGUUAGCA UAAACCACACAAAAUGUAUGAGUCC UUGGUGUAAAGCCCCGUCCAAAUG GGAAAUGUUCAGUGACCAAAAAGG AUCACACAUUGUUUGGUGUCCAAC CAUUUUCAUGUUGGACACCUUGUU UGAUAGUGUUGGAUAAAAUUUGAA UGAUGACAAACAUUUGAU	332	17,7710843	31,0240964	17,4698795	33,4337349	35,2409639	64,4578313	1,0776699	1,01724138	-85,4	-58,8	0,00032221	85,34	-25,722892	-0,7299145

>ofa_vegetal-miR2275	AACUUUAAAACAAAUAUCUAACAGG UGUCUAACUGUUUGGAGCCAAGAG AGCCUGAAUAAACUUAGUAUAUUU CGAACACUGCUAGCCAAGACCCGAG UACUCUUGAUUGAAUACGUCCAUG UCCGAGACCUGACAUGACAUAAGAG CAUUAUCGACCGCUUUGGGGGCUU UGGUUUGCUUCAAUAUCUUAAAUA AAAAGUUUAUUUUUGUUUAAAGG GGCUGGUACUAUGGAGAUAUCUGU UGGAUAAUAGGUUUAAAAAU	263	20,5323194	31,5589354	16,3498099	31,1787072	36,8821293	62,7376426	0,98795181	1,25581395	-66,7	-63,74	0,00073255	52,4	-25,361217	-0,6876289
>ofa_vegetal-miR1861m	AAGAAGUUUCUGAAGUGUUUGGCC GACAACGCUUUAAUACGGCAGUAU CAUGUGCAAUUGUGGCUUACAUGA AGCGCCAGCCGGCGAGCUUCAAAGC AGGUGGAAGAUCGGUCUUGUGGCA AGAACAGUUUAAAGACUUUAA	143	27,2727273	28,6713287	18,1818182	25,1748252	45,4545455	53,8461538	0,87804878	1,5	-41,2	-30,5	0,0384481	29,84	-28,811189	-0,6338462
>ofa_vegetal-miR11155b	AUUUCUACUACCCCCUGAAUGGAU GGGAUUUUAGUCCAUCGUAGGGGU UACCCCUCGACAUUCAAUUCACCCA UUGAUACACCCGGGUAGAGAGGG	97	22,6804124	23,7113402	25,7731959	26,8041237	48,4536082	50,5154639	1,13043478	0,88	-31,4	-30,7	0,102209	7,66	-32,371134	-0,6680851
>ofa_vegetal-miR2118	UUGUUGCUGUUGCUGUUGCUGUU GUUGAUGACGAUGCUACUGCUGUU GUUUUCUGAGCUAUCUAAUAGUUG GCUGAGGUACAAAUUAGCUGAAGA AAGCAUUUUCUUUUCUGACUGGCA UAAGGAGCUCCCUUAAGUUUUUCU UCUUUUAUCUUGAGUGUGUAGCAA GGAAGUGUAAGUUAUUCUUAGGU UAAUACAGUGCAGGAUGGUUUGUU UAAAAGAGGAGAGUUCCCAUGCCU CCCAUUUCACUUUGCUCCUUGACAA AGAUCUCAAAGUACUGGUAAAUGA UGGUGACGGCCAACAGAAUACCCGU UCCAGAACCAAUAGCACCUGCAAAG A	339	22,7138643	25,3687316	17,9941003	33,6283186	40,7079646	58,9970501	1,3255814	1,26229508	-89,9	-70,5	3,93E-05	78,66	-26,519174	-0,6514493
>ofa_vegetal-miR7492a	UUUAAAACAAUUAUCGCGUCCAUU GAUGCAGAGAGCGCUUCUGGGCGG UGAAUUGUGGAAAGACAGCGAGAG AGCAAUUUUAUGACGAGAUUGAAA CAAGAGGACAUGACUUGCUAAUUG UUAGUGGGUUAAAUUAAAUCCGAA GGGUAGAAAAUCUGUCUCUUUUGU CUUCUGUGACAGAUUCGCUAGAAU AAGACAUGAUCUUUUGCUCCCUACC UGAGAAAACAAAAAACAUUUUUGU UUUUCUUAUCUCAAUGACAGUUUU UUGGACUUGGCUGUCCGAGUCACU AUCGACGGAAAUUUUUUUCUC	311	21,5434084	28,9389068	16,7202572	32,4758842	38,2636656	61,414791	1,12222222	1,28846154	-80,5	-70,2	2,54E-05	54,56	-25,884244	-0,6764706
>ofa_vegetal-miR2928	UGAGGCAUCAAGAUUACAGAGACU AAUAGGCAACUCAAUACCUGCCCAG AGAAGCAGAUGAUUUGUAUCUGCC AGCAGAAGACGAUUAUUUGUUUGC AGUUCAGCCCAAAUAAGCGAAUCAA UUGUUUGUGCCCUUACAGGCAUGU UGUUUAAAUUAUUAGUCUUGAUA GAUCAACAUGCCAAA	185	20	32,4324324	18,9189189	28,1081081	38,9189189	60,5405405	0,86666667	1,05714286	-50,5	-41,4	0,00615778	42,15	-27,297297	-0,7013889
>ofa_vegetal-miR1134	UUGUACUUCUUUGACAACAACAAG AAGAAGAAGAAGCUUUAUUUGUAC UGUGUCUACUAAUAUCUUUUGAUG AGCCCAAAUUCAACCUGUCGUUGAA UAUCUUUGUGACUCAUAGUAAACU	290	17,2413793	28,6206897	18,2758621	35,5172414	35,5172414	64,137931	1,24096386	0,94339623	-69,7	-59,5	0,00080661	53,19	-24,034483	-0,676699

	UAUUUAACAUAAUGUUAUGUACUG AAUGGAACUUUCUGUUUCAGGCUG AGCACUAUUUCCGCUUGUUACUGA GAGACCUUCUGUCAUCAGAAACUCC AAAGGUUAGUCAAUGUGCAUUUGA AACUCGAUCAGCAUCAGCUUCAUU GUAUCUUUGUCAGUGAAGUAUCU														
>ofa_vegetal-miR8007a	UAUCUCACUCCUGGUAUAGUUGAC GUAUACCCCUAAACUACAGCUUAAU AUGCAACUCUAAAAGUGUCGGUUA UUGUCAGAUGUUAACUUGACCUUA AACGUCUAGGAGGAAAAAGGUGCG CAAUUUGUAGGGGUGGUUGAUCAA AUCUCAUAUAGGAGAGGGGUAUGA UUUUAUGCUUUCAAAAUGAUAGAU CUGCCCAAGAGCUUUUUGCUGUUC AAAUUUGAUAAAAACUGAACUAAU AUUGAGCAUGUUAUGGUAUUUUG UGUCACGUGGCACUUUUGGGAGUG AGAGG	294	23,1292517	28,9115646	14,9659864	32,6530612	38,0952381	61,5646259	1,12941176	1,54545455	-75,9	-57,4	0,00014895	68,83	-25,816327	-0,6776786
>ofa_vegetal-miR9773	CUGCAAAUUUUAUGAAUAUUCCAC UUUUUAUUUAGUAAAGAAUAUAUC GCCUUUUUAUGUUAUUGACGCGCU UGAUUUGAAGCGAGUAUUGAAUAC AUAAAAAAGCAAUUGCAUCAUUCA UGGAAUGUGUCG	133	16,5413534	31,5789474	13,5338346	37,593985	30,075188	69,1729323	1,19047619	1,22222222	-28,3	-26,8	0,066274	14,48	-21,278195	-0,7075
>ofa_vegetal-miR5658	GCGGAACAGAGAGGGCCGAGUUCA CAACGAACCGGCGUAACAGCGACGG CGACGACGACGAUGAUGAUGUUGA UGAUGAUGAUGAUGAUGAUGAAAA UGAUGAAAUCAUGCAUGGCUUGUA GCGCUAUCAUUAUCAAGCGUUCCU AUUGCAUGCAAAAACCACCAGUAUC ACUUUGAAGUGGAUCUCUCUUUCG GU	197	26,3959391	29,4416244	19,7969543	23,857868	46,1928934	53,2994924	0,81034483	1,33333333	-51,5	-25,89	0,00079939	63,63	-26,142132	-0,5659341
>ofa_vegetal-miR156k	ACAAGUUUUGACCCUCUUUGUAUC UGGCUAUAUCCAAAAAAAUAUUCU GCCCAGAUCUCUACAGUUUUAGGA AUGUUUUGAGUCAAUGGUGAAGCA UGUACACAAGAAAGAAUGUACAUG UAGGUGAGAUCAGACGAAGUCAUU GGAUAUUACUGAAGACAAUGAGAG CUGACUUUGAAAUAGUGAUUAAAU AUGACAGAAGAGAGUGGGCAAGAC UCAC	221	22,1719457	34,841629	14,9321267	27,60181	37,1040724	62,4434389	0,79220779	1,48484848	-49,6	-40,82	0,0011958	54,12	-22,443439	-0,604878
>ofa_vegetal-miR8699	GGCUGUACUCAAACAAACGAUUGC GAAAAUACAUCUAAUCGUAUUAAU GAAGUAUGUGUUGGACUGUAGAUC UAGCAACGAGCCGCCAUUUUGAAAA ACCACGUUAGCCCUGGAGGGGGUU CCCUGGGUUUGUUGUGUUUUCGCG CCAAAAACGCGGCUGCUACACCAUG CGCGUCUUGUUCUACUCUCCAGUC UCUAGUUUGAAGGUCUUAAAAAAU UACUCAUUGAAGAAGGACAGAACG CAAACAGGCUUCAUUAAAAGGUAA AUUACACGUAAGCCGUUUAUUGAG UGCAUGA	298	22,4832215	29,1946309	20,4697987	27,5167785	42,9530201	56,7114094	0,94252874	1,09836066	-81	-67,6	0,00026819	47,28	-27,181208	-0,6328125
>ofa_vegetal-miR8014-2	GAAUCGGCCUCCUCAAUUUGAUUU UGUUGACUGAUCCGAGGAAAAGAA AUAAGGAAGUUAUAAGCUAGUUGU UGUAAUCGCUGAAGCUAAUGUAUG	305	19,3442623	34,7540984	17,0491803	28,5245902	36,3934426	63,2786885	0,82075472	1,13461538	-64,4	-39,1	3,40E-05	76,34	-21,114754	-0,5801802

	GAUGUCAUACAGCUUACACGUCUG GUAUCCGAAACUUAUGUGUCGUAU UACAUUUUAUUUUGCAUGUGUUG UGGCUAAUUUUCGCAAUUUGAUCU CAGGGAAACUAGUGUCUUUAUAAC CUGGCAAAUCAAAACAAACAAAAAA UUACCCCAGCAGCAAAAAGCUGCAA AAAGAGAAAUCCAACAUCAGAUUGA AAAGGUCACGAAAA															
>ofa_vegetal-miR7486d	UCUAAUUUGUAGUUUCUUUCCCGU UUGCUCUUACAAAAAGGCGCAGGG UAGCUUUUUGAAUAUCUAUAUAUA UUAGAAUUCUUAUUUGGCUCCGAG GCUAUGGAGGGCUUUGCUUACCAA GGAAAUGGGAGAAAAUUUAAACAA UUUUU	150	20	27,3333333	14,6666667	37,3333333	34,6666667	64,6666667	1,36585366	1,36363636	-34,9	-24,7	0,0255974	25,58	-23,266667	-0,6711538
>ofa_vegetal-miR530-1	CAGUGGUGGUGCACCUCAAGUGGU CCAUCCUCAGUAUGCAGCAUAUAG UGUUCAACCAUGGGGUAUGUAUUC UGCUGGAGCGUCCAACACAGGAGC UGGGUACCUCCAACAACAGCAACAG CAACAGCAGCAGCAGCAGCAAC AGGCUCAACAUGCUCAGUUACUUC GUUCCAACUCAGGAGGGAUGACUG GGCGGCCCAUGCAGGGGCAGAUGG AAAUCAUUGGGACACCACCAUCA	242	26,8595041	27,2727273	26,8595041	18,5950413	53,7190083	45,8677686	0,68181818	1	-83,5	-58,5	0,00034186	56,7	-34,504132	-0,6423077
>ofa_vegetal-miR5073	AGUAAAGAGAAGUAGAGAAUUGUG GUAUUGCAUCGAUCUUAAUACGCA GCGAAAAGCCUUUAAAAUGAACCU UAAAAGACAUUUUUGCGGGAGUUU AGUUUUGCGAAUCGGCGACUUUUU GUAUUUCGCGGGAACUAACUUUUG CGAUUGUGAAAGACUUUUCGAGCU GGGAAUCAAGUUUGGGGAUCUUCA AAAAGUCGCGUUUAUUUGAAAUAC AACAUUUUCUGCGUUUUGUUUGU U	241	23,2365145	28,2157676	13,6929461	34,439834	36,9294606	62,6556017	1,22058824	1,6969697	-59,4	-50,8	3,42E-05	45,72	-24,647303	-0,6674157
>ofa_vegetal-miR6199	GACACUGUCUUCAGUUUGUCAAAU GCAAUGAGAACACAGCAAAGAACAU CCGAGACACUGACGAGCGUCGAUCC CAGGACCUCCCGCUUGAGGUCUGU CGGUUGCUGGUUCAACAGAACCACA GAAUACUCACAGUGAGCUAAUGAU CACGUGUCUCCUAUUCAGCUGUGU UGUUAUAAGAGGUUGCAGUCGAGC AGUUGGACAUUGUAUGACAUUGGU UUGACCCCGUCUGGGAAGCAGAUA UUUCUUUUUCUGUUUUCCAGCACU GCUUGUGCAAACCUAAUGCAGUUU A	293	23,2081911	25,2559727	22,8668942	28,3276451	46,0750853	53,5836177	1,12162162	1,01492537	-97	-92,9	0,00025017	47,53	-33,105802	-0,7185185
>ofa_vegetal-miR5014a	AUUACAAGCUGAAUUACAUGAGAU GGAAAGUCAAGAUAUCAUUGCAAA AGUAACACAACCUACAGAUUGGGU UAACUCCCUGGUUAUUAGAGAAAA AGAAAAUGGGCGACUUCGUUUAUG CCUCGAUCCUACAGGCUGCAGAUG UUGUACAUAUGUAUGUGUACGUG UACAUGUAUGUUGUGUAACCAUUU CUAUUAUCAAGUGUUACAUACGUA ACUGUAAACAGACUAGCCUGGGUG UUGCUCUGGCUUGCUGUCAGGAGC AAAAGUCUGCAUUCUAGUUACUGA	328	22,5609756	28,6585366	17,6829268	30,7926829	40,2439024	59,4512195	1,07446809	1,27586207	-88,4	-70,9	9,68E-05	91,74	-26,95122	-0,669697

	GUGGUGCUCUGGAUAGUCUAAUGU CAUUCAGGCUAGUCUC															
>ofa_vegetal-miR7534	AGACAAACUGACUGUGUGCACAAAC AAAAAGUGAUCGAUAAAGCAGGAA AUGAUAAAGAAGUCGUCAAUAUCC UCACAAGCGACUACAUCCGGAACGC GAGUGACGUACAUCAUAACAAUGA UUUACGUCACUCGGGUUCCGGAGU AGUCUCGUUUGAAUUAUUCGAGUG GUGUAUUUUCCGUGAUAACACUCC UGUUCAGAUAAUAAAGGGGAAUAC ACACUACUGGACUUCAAUUUGACU UUUUGAUUGUUACUACACUUAGCU UAUGAGA	274	20,4379562	32,4817518	18,9781022	27,7372263	39,4160584	60,2189781	0,85393258	1,07692308	-92,9	-91	0,0022433	36,09	-33,905109	-0,8601852
>ofa_vegetal-miR8170	ACCGGAGACCGAGCGAUCUCUUCAU AAGAUGGUUGAGACAAAUAAGACA CCUGAGGACCAACAGCCAACAGAUG GUUUUAUUAUGAAUGCUGAAAUAU UUUCUAAGUUAUGGACCGGGUAGA UAUUUCUACAAGUCUUUCAGUUAU CAAGCGGUGUAAGACACAUCUUAU UAACCGAGCUUGUUUGCUUACAGC CUUUCCUGCACAGAUCUCGGUCUCC ACU	223	20,1793722	28,6995516	21,5246637	29,1479821	41,7040359	57,8475336	1,015625	0,9375	-62,6	-52,7	0,00223106	37,62	-28,071749	-0,6731183
>ofa_vegetal-miR11079	UGCAAUCCUUUGCUGUGAUAUACC AUGAAAUAUCUCCUUUAGGUUGGU AUUUAAGUAUACUUACAGUUGUGU GAGCCUUAGGUGACUGUGUGUAUA GAAGGAAAUUGAAUUCACAUUAGG GAUAUUUAUGGUAUACCUUAAGAA AGCAUUCUG	154	21,4285714	28,5714286	12,987013	36,3636364	34,4155844	64,9350649	1,27272727	1,65	-33,7	-28,9	0,00061266	29,9	-21,883117	-0,6358491
>ofa_vegetal-miR530-2	GCUACACAUUUGAGGUUGGUUUCC ACUCGCGCAGAAGUACAAGCAACAC AGGCAGAUGCAAAACAAAAAACAUU GCAUAGGAAAUAAGCUAAACAGGCA GAUGCACGCAGAUGCAGUACAAGCA ACACAGGCAGAUGCAGUAAGAUGU UGUUAAUUUGCACCUUUUGUUUGA AAAAGUUCCUAACAGAAGGUGCAAC UUAACAGCUCCUCGGCUUUUGCUU AUGCGCUAGUGUGAAAACCAGCCU UCAUCAAAGUGUUAU	261	21,4559387	33,7164751	20,6896552	23,7547893	42,1455939	57,4712644	0,70454545	1,03703704	-88,1	-78,8	0,00023868	38,31	-33,754789	-0,8009091
>ofa_vegetal-miR530-3	GUUGGUUUCCACUCGCGCAGAAGU ACAAGCAACACAGGCAGAUGCAAAA CAAAAAACAUUGCAUAGGAAAUAAG CUAAACAGGCAGAUGCACGCAGAUG CAGUACAAGCAACACAGGCAGAUGC AGUAAGAUGUUGUUAAUUUGCACC UUUUGUUUGAAAAAGUUCCUAACA GAAGGUGCAACUUAACAGCUCCUCG GCUUUUGCUUAUGCGCUAGUGUGA AAACCAGC	230	22,173913	34,3478261	20,8695652	22,173913	43,0434783	56,5217391	0,64556962	1,0625	-77,8	-71,2	0,00073881	32,39	-33,826087	-0,7858586
>ofa_vegetal-miR11108i	UUCAGUGUUUGAAAUGAGAUAUCU AAGUCUCCAAUGACUUUGUUUAAA UGCUGUAAAAUAAAGGACAGAAAG CCAUAGCUGGUUUGUGACUGGUGAC CAUUUUAAGGUGGACCAAAGCAGU UUCCAACACAUUCCAAGACUUAGAU UUGAUGGGUCAUUUCAACCACUAU U	171	19,8830409	31,5789474	16,9590643	30,994152	36,8421053	62,5730994	0,98148148	1,17241379	-42	-31,3	0,0124947	30,51	-24,561404	-0,6666667

>ofa_vegetal-miR8781a	AACUGUUUCAUUAGAAACAUUUCA UGAAACAAAUUACCUUCUGCGUGU UUAGGUUUCUAUUCAAGACGGCUG UUUUCAGGUUUACAUUUAGUUCUU AGUGGAGAAGGUGAUGGAGGUACG UUUGAUUAUUAUUUAGCUUUACU UAGGUGUGUGAGAUUGUUACAAAU AUAGCUGCCAUGAUUUUCAUGAAG UAUUAAGAACUAUUUAUGGACCAU CAAUCCAUCAUGUUUGAAAAUCCU UUUUGUUUUUAAAAAAGUACUUAA GAUAUCGAUUUCCGGUAGGACUAA GAUGAAAUGGUUUUAGUAAGUAAC AGUU	316	19,3037975	29,7468354	12,3417722	38,2911392	31,6455696	68,0379747	1,28723404	1,56410256	-69	-48,5	0,00012643	64	-21,835443	-0,69
>ofa_vegetal-miR10425	AAACACCUUACGUACGGUACCUUAA UAAGAAAGAAGAGAAAUUUUUCGU UCCAGUUACUUUUUACGUUAGUCU UUGAAAUCGCAUUGUACAUCGAUC UAUAGUACUGUGUGAUCACACACG CUGUAUUAAAUAAAAUACAGCUUU UUGUGGUACUGGAGUGGUAAUCU UCAUGGGGCCGCCACUUUCGGUGG AACGUUACUUUCUGGAUUAAAUAA AUAAGAAGGUGAAA	231	19,9134199	30,7359307	16,4502165	32,4675325	36,3636364	63,2034632	1,05633803	1,21052632	-56	-36,5	0,0003571	62,05	-24,242424	-0,6666667
>ofa_vegetal-miR437	CUGUUGUUGUUGCGACUGUGAUGC UUUUUGAAAAACACUGCGAAGUUU AACUUCGAAGUUAUCGUUGCGUCA AAGGAGAGCAACUGAGAGAGAUCG UCAUUUUGCAUGGUCAUAUUAUUU GAAAGUGAUGAUCAAUUGCCUUUU GUAGCUCGAUUUGAAGACUUCGAU CGACAAUCUUGCUCUUUUCUAGGA GUCUUGUCAUUUUCCGUGAUUCAU UCUCAUUCAAAAUGUUCACAGAGCA AUCAAACAAGAU	254	20,4724409	26,7716535	17,3228346	35,0393701	37,7952756	61,8110236	1,30882353	1,18181818	-67,6	-56,3	7,86E-05	34,75	-26,614173	-0,7041667
>ofa_vegetal-miR5269a	AUUUCUACAGAUGUAGUUGCUGAU CUAGUUGUUGCUCCAUUAUUUUUG CGCUGUGUAGUGGAUGAAAGAACA GUGGAAGUCAGAUCCAAAGUAUGC UGAAAAUGGUGUAAAUGGAAGUCU UUGUUCCAUCCUUGUCUACCUUAG UGAGGUAAGCUUCAAAUCAAGUUG GGUCAGAGAGGGCAAUUAAAAUUU AAAUAUUAAUUAUAUUUUUUUUA UGUCCACUCCUAAUUAAGGUUGAU CAAACAACAUACAUUGAUAGAUAC	264	20,0757576	30,6818182	14,0151515	34,8484848	34,0909091	65,530303	1,13580247	1,43243243	-62,5	-61,6	0,00411063	34,03	-23,674242	-0,6944444
>ofa_vegetal-miR476b	GGUAAUCCUUAGAUCUCGAGUUGU UUUUAGAUUCGAUUCCCGGUUUUG CAAAUCUCAGGAGGGUCUGGAAAU AGUUAGUCAGGCCCCACUUAUGUG GUCGCGGGUACCCGAGACAACCUUC CCCCGCGUUACCCUGGCCGAGGUAC CUUUUAGCUUAUUUCUUUGCAAAA UUCAACCAACCGCGGAUUACAGGAU UGCG	200	23,5	21,5	25	29,5	48,5	51	1,37209302	0,94	-56,4	-48	0,00090438	42,79	-28,2	-0,5814433
>ofa_vegetal-miR4415b	UGUACUAAUGAGAAUAGUACCACA AGGAUAGCAAGAGGUUUCCUAAGG GAAUCAAUGGAGAGUUUCGUAAUG GAGUCACUGCAGACCAAGGUUGUC ACCAUGCAGAACUCCUGAUCGUCGG UAGCAGUAACAAGCUGAUCGCUUC UCGGCCUUUUGGCUAAGAUCAAGU	239	24,2677824	26,7782427	20,083682	28,4518828	44,3514644	55,2301255	1,0625	1,20833333	-68,6	-64,2	0,00010889	39,47	-28,702929	-0,6471698

	GUAGUUCUUAAGUCUUAGUUCGAA AGCCAGGAGAGUCCUCUUUUCACU UGGGACUAUUUCUCUAGUGUC															
>ofa_vegetal-miR169l	CUUUGCUGAGAAUUGCUGUACCCG GUGAAUUUACAUUCUUUCUCUUCA CUGGGUGAAGUUUUUCCCAGCAUC U	74	18,9189189	17,5675676	22,972973	39,1891892	41,8918919	56,7567568	2,23076923	0,82352941	-28,3	-28,3	0,458315	1,23	-38,243243	-0,9129032
>ofa_vegetal-miR11506	GAAUCCAUUUGUUAAAAAUACUGC ACUAUAAACCUGUACUACACCUUGG UUUAGGUCCCCAGUUGGCUUCAGG AUUUUCUUGGUACCUGAGAAGUUU UUUCUGUCUUGAAGCCGGGUUUGC UCCUGAUUUGGCUUCAAAAGACAC CUGAAUAACAGGUUCUUUGCUGAG AAUUGCUGUACCCGGUGAAUUUAC AUUCUUUCUCUUCACUGGGUGAAG UUUUUCCCAGCAUCUCAUGAUGUC CCAUACAACUAAUGAAUGAAAUAAA UAAAACAAAUUAUUGAGGAAUGCA GAGUCUCUUUAACCAAUUGAACG	314	18,4713376	27,7070064	20,0636943	33,4394904	38,5350318	61,1464968	1,20689655	0,92063492	-83,6	-71,5	0,00032977	69,27	-26,624204	-0,6909091
>ofa_vegetal-miR9742	GCGCAAUUUACUAGAUAAAUGUUG UGUUGUUUUUUUUUUCGUUUGAU AGAGUAGGGUACAUGAAAUAUUUA GUUGUAUGUAAAUGUUGAGACGU UCUCUCCAUCUCCUAAUUUACCUAC AAAUGUCGAAUGGACUUGCAAAAC CUGGUGUGCUAUACGACCAAACGG AAGUAUAAACAGGCUCACGCCUUAG GCAUUUUCAAAAAAAUAACGCAGCA GAUUUUCGUAGUCUAUUGUUU	239	19,2468619	29,2887029	16,3179916	34,7280335	35,5648536	64,0167364	1,18571429	1,17948718	-61,8	-51,7	0,00345388	34,45	-25,857741	-0,7270588
>ofa_vegetal-miR6111	AUCGUUUGAAAGUGUCUCUAUUGU GUUUUCUACUCAGCUGUGUUAUAA AUAGCAUUGCUCAUGUGGGAAUUC ACGGUUUGUAUAAAAUGCUCCAUU GAUCAUGACUCCUACGAUCAUGUU CUUUUGGUCAAAACUAAACACGAG ACACUCCAGAACAAA	160	17,5	28,75	19,375	33,75	36,875	62,5	1,17391304	0,90322581	-41,3	-39,9	0,0310612	18,41	-25,8125	-0,7
>ofa_vegetal-miR7802	CCUGUAGGGAAUUGUGUUAGUUG UAUUCAUGUUAAAAAAAAGACCUU UGGUGCCCUGUAUACAAAGCCCAAU UUGAUAUCUGAUUGUGUGGCUUA UACAGCAUUUUUCAAGGCAUAUCA UGAUUAUCAGCAGUCUCAUUCUUA AAAGAUAUAGAGGCCCAGGGGUCG AGGAUGCAUCAUCCUUUAAGUGCU UGCAAUUACUCAUGGUUGCUACAG GCAUCACUUCAAAAUUCCCUGACUU U	242	19,8347107	27,6859504	19,0082645	33,0578512	38,8429752	60,7438017	1,19402985	1,04347826	-64,5	-54,6	0,00138689	57,96	-26,652893	-0,6861702
>ofa_vegetal-miR8029	UUGUUUGGUGGCUUUGCCAUGUU GCUGUGGAUUGGAGCUAUUCUCUG UUUCUUUGCCUACGGCAUUCUAAU AGCUACAGAGGAAGAGCCACCGAAA GAU	100	26	20	19	34	45	54	1,7	1,36842105	-36,2	-36,2	0,0500997	9,23	-36,2	-0,8044444
>ofa_vegetal-miR1075	CAUUGUUCUUCUCAUUAAACCGUU UGUUUAAUGAUGUUCCCGUCGUGG UUUCUUAAACCCCCUUUUAUCAUA GAGGAGACUGUUAAGAGCUUAGUG UUCUUCAGUUUAAAGCCCUGUUAA GAAAUAUUUAAGGUGUAGAAGCCA GUAAUUGUUGUACAAAGUUAGUUA UGACUGGUUACGGGGAUAGUAACU GGAAAGAAAAUUGAGUUCCAGUUG	275	21,0909091	28,3636364	16,7272727	33,4545455	37,8181818	61,8181818	1,17948718	1,26086957	-65,3	-53,68	8,35E-05	64,53	-23,745455	-0,6278846

	UGAUAAAGUCGCCUUCGCCGUCAU UGAACUUAAACUUACCGUGUAAGA GAUAACAGCC															
>ofa_vegetal-miR8771c	CAGUAUCUCAGACUUAAAGCCAGUC CUUAUUCAUUGGGUUGGAGGUAU GGAAGCCUAAAGGUUAAGGCGCUG GCCUCCAGGUCCACGCCCUGGCCAG GGUCAUUGAAUUUCGUUCUUAUGC AAGACACUUUACUCUCACAGUGCCU CUCUCCACCUGUGUGUAUAUAUGG GUAACCUUGGAGGUGAGCCUGAAA UGGACUAGCAUCCCAUACAAGGGAA AGUAAAUACUCCUUGUCACUAAUA AAUAAGAUGCUCUGGAGACUGAGA UAAGC	273	23,4432234	26,7399267	22,7106227	26,7399267	46,1538462	53,4798535	1	1,03225806	-80,9	-72,9	0,00050457	51,86	-29,6337	-0,6420635
>ofa_vegetal-miR1108	UUGAAGUUGUUAAGGAGCACAGGU AGUCUCUUGUCGAAGGUGUGCUGA GAGACAUCGAAUGCUUCUUUGUUA UCGGCAAAAACCAGCAAUAACUUUU GCAAGCGAGUGAGUUUGUUCCGUA CAACUUUGC	131	25,1908397	25,9541985	17,5572519	30,5343511	42,7480916	56,4885496	1,17647059	1,43478261	-39,9	-35,01	0,0579001	21,77	-30,458015	-0,7125
>ofa_vegetal-miR2919	UAUAAAACGAGAGUCAGUGUUCCA CAAAUACAGCCACAUAGAAAAAAAG GGAUUACUCCAUCAUGCCCUACAUC GAAUCAAAUUUCAAAAACACUAUAC CGAAAACUAGUGAGGUAAACAAAU UUUAAAAGCGAAAGCGAAUACGAA GAAAAAGGCUUCAUCUCAAAGGGG GGGGGGGGAAAGGGGGGGAACGGG CGCAGUCCCCUACCCUACCUCUCGA UCCGCCCCCUGUGUUUAUCACUGAG AAAAGAAAAUUUAACGGAUUCAGG AACUGCACCAGCACGCAGGAUAGAG UGCUUUUGGUUGUUGUAUUUCUG UAUACUCAAGAUCGCGAUUUCUC	340	22,3529412	34,1176471	21,1764706	22,0588235	43,5294118	56,1764706	0,64655172	1,05555556	-79,2	-46,55	2,44E-05	94,25	-23,294118	-0,5351351
>ofa_vegetal-miR530b	AGGUGCAGCUGCCAGUGCUAUUGC AGCAGCCUCUCAGCAGCAAAAGCUA AAGGAGCAGCAGAGGCAAGCGCUG GCCCAGCAACAGCAGCAGCAGC AACA	103	29,1262136	31,0679612	29,1262136	9,70873786	58,2524272	40,776699	0,3125	1	-36,9	-27	0,049364	33,94	-35,825243	-0,615
>ofa_vegetal-miR1044	GUACAGAGAAUACAUUGCUUAAGU AUGGCAAAAUCCUGACAGAUAAUCC AUACUCACGGUAAUGAUGCAGAAA GUAUAUGCAGCACGGAUGCACAUA UAUGCACUACUCAGUGGAAUAACC UUAAAACUGUUGUGGUCUGUUCGU GUGGUUGUCAAAUUGUGCCACUUU GUAUUGACUGUAAUUUUUUACUG UCUUAAUUGCAGUGUAAUUCUUGC AA	219	20,0913242	29,6803653	16,8949772	32,8767123	36,9863014	62,5570776	1,10769231	1,18918919	-53	-44,6	0,00094249	50,98	-24,200913	-0,654321
>ofa_vegetal-miR11028	AGAGUAAAACUUACAUGAGUUGAA AACAAUUUUCAUUUGACACGGGAA CGAUAAUGAGGACGAUGAUGAUAU UGAUGCGUUGGCUAUCUCUGUGGC UUUGGUUAAAAAUAAUGUGGUGG UGGUGGUGGCGGCGACGGCGGCGG CGGGGCGGCGUAUCGGAGGAGGAC AACUGUGCAUGAAAAUGAAGGAAA AUUUCUGGGUGCAUUAUGUUCUUA GCUCACCUCUCUUUUCAUCUGGUU AUUUGUGAAUAUUUUGUAUACUCU CCAGGUUUUGACGAA	279	28,6738351	25,4480287	14,6953405	30,8243728	43,3691756	56,2724014	1,21126761	1,95121951	-69,2	-63,2	0,00038591	41,17	-24,802867	-0,5719008

>ofa_vegetal-miR1039	UCCAUGGAAACAAUUUUACAAUUA GGCUGACAGUGGAUAUGAGUCGAU AUGACUCCUUUGUAUCUUUCUCUC ACCAAAUACCUUGUUGCAGUUUUA UUUAUACAUUGCGGCCGCAAAUCG CACAUUGUGUAAGUCGAUAAAGCU CUUUUUCAAGGAGACAAUUCAGAU CUUGUUUAUUCUUACUGUAAUAUU UGUUUCCAUCUA	205	16,097561	26,8292683	19,0243902	37,5609756	35,1219512	64,3902439	1,4	0,84615385	-50,8	-48,3	0,00967772	13,08	-24,780488	-0,7055556
>ofa_vegetal-miR9674c	AAGAACCAUGCAAAUGGACAUUGCC UCAGUCAUUCUUUUAGAAUAUACC AAGUUUUCCAAAGCAUUGGAAUGU UGAUUUCGUCGUUGAUGACUGCAU AUGUACAGCGCAUGCGUUAUC	119	19,3277311	28,5714286	19,3277311	31,9327731	38,6554622	60,5042017	1,11764706	1	-27,3	-27,3	0,023593	16,42	-22,941176	-0,5934783
>ofa_vegetal-miR8693	ACAUUGGUUAACAUGCACUUCAAAC ACACAGCUACACAGCAGAUGGAUGA AAAUGUAGAUGGCAGGUUGGGAUU AGGACAAUGGUGGAUCAUGGAAUG AGGAGGGGAAUUGGAGAGUGGUGC UCCUCAAGUGCGGUUGUACAGGUC CCCACUAGCCUUUAGGUUGCCUCAA ACCAACGUGCCUCAACAAGAAGUAU AUGUAUGUAUGUAUUUAUGUGUG UGUGUGUGUGUGUAUGUAAGGUU GAUUCACGAACGC	256	28,515625	27,734375	16,40625	26,953125	44,921875	54,6875	0,97183099	1,73809524	-76,2	-68,5	0,00209687	54,24	-29,765625	-0,6626087
>ofa_vegetal-miR11108p	CACUGUGAGAGUAACAUGUCAUGU CCAAGAACACAGUCCAGUACUAACA AUAGCUAGGGAUCCAUAUUUGCAG UCACCUGGCCAUCCUUGACAACUAC AAAAUUUUAGGGACAACCAAAACAA UAGGAAAAUGCAUCUGCUAAAUGA GUUAAGUUUGACUCUACCGGAAUA AAGGCAGUUCUUAAAAUUUGCUUAU GAGUGCACUGCAUUCUGACCACUU GUCAUCCAUUUGGAACUUUUAAAA AACAGCUCUAGAAAAACCUACAGCU UGCUUUUGCAAUAAAAUCAUCAAU UUGGUCUGCUACAUUGUAUCUUGG AUGAUGUGGUAUUCUCCACAAAU	340	17,0588235	32,9411765	20,5882353	29,1176471	37,6470588	62,0588235	0,88392857	0,82857143	-83,8	-74	7,39E-05	49,47	-24,647059	-0,6546875
>ofa_vegetal-miR11576	AUGAAAAAGAACAUCUCGAGUACU UUUGAACACCAAAAUAUAGCACUUA CACAUACAUUACAGUGAUAAAAGU GGCAGUUUUGCUGGUUUGCAUUCG GGGCUUCAUCAGUCAUUGAUUCCG CUGGUGCUAUACUUUGUGUGCAAA GUACUCAAGAAGUUAUUUUUAAU	169	18,9349112	30,7692308	17,1597633	32,5443787	36,0946746	63,3136095	1,05769231	1,10344828	-46,6	-42,2	0,00137136	32,01	-27,573964	-0,7639344
>ofa_vegetal-miR164c	GCACAAAAGUGGAAGCACAGUGAG GUGCAGUGUUGUGCAGAGGUAGAA UGAGAUUCUACUUCUCCAACAUUG GUGCAACAAUGACAACAACAAAACA AACAAACAAAAACAUUGCUGCAACA AUAUUAAUGUGCCCACUAUUGGUG AUGUUGUGCACUGUGGUGUGGCAC AACUAUCUGCCAUUCUCUACUUUA AGCCAUCCAAUUUUGAAG	213	20,657277	33,3333333	20,1877934	25,3521127	40,8450704	58,685446	0,76056338	1,02325581	-61,8	-55,3	0,0081597	51,59	-29,014085	-0,7103448
>ofa_vegetal-miR9745	UCAGGGGUUGACGAGGGACCGGUG GGUGAUUCAAACUGAGCUUGAAUU UUAAUUAUUUUUGGAACCUAUAAG CUCAAGAUAUAUCUUGCUCAGCCCU UUAUGAGUUUCUUUUAUUUAUAU AUAUAUAUAUAAGUAUGUAAUUUU UUUGGUCUAAAAGUAGCUUGGAUG	261	16,4750958	26,8199234	20,6896552	35,6321839	37,164751	62,4521073	1,32857143	0,7962963	-65,2	-64,4	0,00094652	39,94	-24,980843	-0,6721649

	AUUUUUUUCAUCACAAUUACCCCAC CCAAUUCCCUUCAGUAGAACAUUU UGCACAGCUUGAACAGCCAUCCAAC CUCCGUCCAACCUCCGUC															
>ofa_vegetal-miR4378b	GCUAACAAAACAGCCUCACUGCAUG AAAGGACUAGAACUAUCUGAGUGU GUGUGUGUGUGUGUGUGUUUUUU UUUUUNGGGGGGGGGGCAAAUA AUGAUACCACCCCACUAUUCCUUUA CCCAAAAGCCACCCCCUACCCACAUA GUUACGACACCUUGUCUGUUAGGU AACAGCUAACAAACAAGCUUCACUG CAUGAAAGGACAAGAACUAUCUGA GUGUGUGUGUGUGUUGUUUUU	241	22,406639	26,5560166	21,1618257	29,0456432	43,5684647	55,6016598	1,09375	1,05882353	-59,58	-21,48	0,0007129	76,42	-24,721992	-0,5674286
>ofa_vegetal-miR5260	CUACUGCUUGCAUGCUCGGAUUCU CGUUAAAAUUCUCUACCGUGUGGU GGAAGCAUAAUUUGAAUCUUGGAA ACAAAAACUUGACGUUGGGAACAA AGUUUCCCUUAUGGCAAAACUGGG AAACAUUGGGGAAGCAUGCACGCG CUAUGAAUGUUUCUGGACAAGUGC UUCCUUGUUUUGUUGACAUUUUA UUGCACCUGACGCGCGUAAGAAUU CUUCGCGACAGGCACUUGCAAAGGC AGAAA	246	23,5772358	27,2357724	19,9186992	28,8617886	43,495935	56,097561	1,05970149	1,18367347	-67,9	-61,6	0,00018672	60,22	-27,601626	-0,6345794
>ofa_vegetal-miR4360	CAGACAGUUUAUUGUACUCUCACU GCUAUAAUUUCAUUGCUGUUGUUU UAGCUGCUUUUUUUGUUGUUGUU GUUGUUGUUUUUCUUCUCCAAGGA GUUAUAAAAUUUAAUUUAGGACGA AGGAAUUGUCUUGUAACGGCUCAC GAAACACGAAGAAUUGCGUGCUCA AAUAUGAUUAGGGCGGAACGAUGA CAUAGUGCUUACUUGUGUCAAUAG GCCGCUUGUCGCAUGACCCAAUUAA AGUACGCACGGAUGAGAAAAAACG GUGAC	270	22,2222222	26,6666667	16,6666667	34,0740741	38,8888889	60,7407407	1,27777778	1,33333333	-63,9	-58,5	0,00049666	41,82	-23,666667	-0,6085714
>ofa_vegetal-miR396j	AUGUCAGGUACAUUUACUUCAUGA GUUGUCUGCCUGUAUAGUUCAGAA UCUGGACUUUUGUCUCAUUGGUCA UAAAACAAGAGUUUUUGAGCCAUA UUCUGAUUGGUUACGUGAUUGGA UAGCUGACUUCUGGUGCAAUUCCA AACAGCUGUGGAGAUGGUUGUGAA CAGCGAAUUUCCAGAGGUUAUAAA UUGGUCUCUUCAAGAUUUUAUUCU GAAAUCCAGGAAGAAGAUAGAAGA CAUGCAUCUGAAAG	254	22,8346457	28,3464567	15,3543307	33,0708661	38,1889764	61,4173228	1,16666667	1,48717949	-68,1	-67,4	0,0093375	20,99	-26,811024	-0,7020619
>ofa_vegetal-miR4369	CUCGGAAACGGCUUUGUAAAAUAU UGGUUUAGUUAGCGUAUGUUGGA CCACGAUAGUGAUAACGUUUUUGC AUGGAAAGUAACUAACCUGGGACC GGGUUGGGGUUUUUGGUGGCUAG UCUACAAUAGGGUUGCAAAAUCAA GCUGAUCAUGGUCUAGUAUAUAGG GUGAGUGUUUCAGUGUUCCAGCGG CACAGCCCUACCCAGAGAUUUACAG AGCACCAUUCCUGG	230	27,3913043	25,2173913	17,826087	29,1304348	45,2173913	54,3478261	1,15517241	1,53658537	-63,8	-49,28	0,00135014	48,95	-27,73913	-0,6134615
>ofa_vegetal-miR8744	UAAAGAAAUGGGCAAAAGUAUCAA GCACAUGUUCAUCGUUUGCUAGUU GCUUUUGUCCCGUUUCUGGA	69	21,7391304	26,0869565	17,3913043	33,3333333	39,1304348	59,4202899	1,27777778	1,25	-28,7	-27,9	0,712484	0,92	-41,594203	-1,062963

>ofa_vegetal-miR319	GACGGCCCCCGCGUCAAGAAUUUUC AUACUUACCUGACGCGGGAGGAAC UGUGAUCAAGGAGGCAGUCCUCUC AAGGCGAGGCCCUUUCAUUGCACU UCGAUCGGGUUGACCCUUGCGAUU ACCCCAAAUGUGGGUAACUCGAGU GUAUAAUUUCUGGUAGUGGGGGCC UGC	173	28,3236994	20,8092486	25,433526	24,8554913	53,7572254	45,6647399	1,19444444	1,11363636	-65,4	-58,8	0,0272109	29,27	-37,803468	-0,7032258
>ofa_vegetal-miR5057	GUUGAUCGCGAGUGAACCGCAACA UUUCAAAUCAUACGUUUUGCAUAA UAAUAUGUAAUCCUACAGUUGAGC ACUAUUUUGAUGACGUUGCUUCAA AUAAUGCCAAAAUGCGUCUUGAAG UUAUGUUUCGAAACCAUAAAAGUU UUGCUGGUUUUCUUUCGGCGAUCU CA	171	18,128655	28,6549708	18,128655	34,502924	36,2573099	63,1578947	1,20408163	1	-40,7	-38,6	0,00684984	20,83	-23,80117	-0,6564516
>ofa_vegetal-miR1520q	CUUUUACCAGCGCUAGCUGUACCG GGAUUGUAGAAGCUCGAGUGUUGA CAAAACCUGUCAAAAUUGACCAAUC AGAAUAUGCCAGAUCCUGGUAUAC CGGAACGGCCCUUUGUCAAGUUUG CCUAAGAGAAAAUGAGGUCUUUUG GUUUGCCCAACGGCGUUCUUUUGC UUUCUCUAACCUUGCUUCUCUCCU AAGUUUUCGCCAGCCGUUUUUCGC GCUGCGCCCCAAGUAACUGAACGCC AGCCUGGAAGAGGCUAGCGCGCGA GUAACCG	274	23,3576642	22,6277372	26,2773723	27,3722628	49,6350365	50	1,20967742	0,88888889	-79	-64,4	0,00250312	49,49	-28,832117	-0,5808824
>ofa_vegetal-miR11411d	UGGGUAUUAAGUGUACCCGAAUUC GAUAUCUGGCCGACUUCAGCAGAC GGACUUGUAUAAUUUGCAGUAGAC AAGGGUUCUGGGUGGCUAAUUGCA AAUUUGGGUACGGUAAAAUACAGU	121	27,2727273	27,2727273	15,7024793	28,9256198	42,9752066	56,1983471	1,06060606	1,73684211	-34,3	-32,1	0,0221532	14,78	-28,347107	-0,6596154
>ofa_vegetal-miR5380a	UCGCUUUCACAAUCGUGACGAGAA UUGGACCGUGUUAAUUUCUGUUG UGUUGUUUUGUUUUGUUAUAGGU UCAACAUCGCGAAACGAAGGAAGU UAUGGUUUUGAAAAUGAAUAAACC UGAUGUGGAGAGAGACACUUGUAC AAUGCUGGACGAAAUUAAAAUGAU GAGCCAUCUUUCGCACGAAAAUGU GAUAAGGUG	200	24,5	30	13,5	31,5	38	61,5	1,05	1,81481481	-49,4	-48	0,00224736	32,88	-24,7	-0,65
>ofa_vegetal-miR8639e	ACAUUUUUAGCUAAUGAUGAAAGU CAGUGAAAAAAAGGAAGAAAUCCGA AUAAGAAUUAAACAAGUGAUUUCU AUCAUACACGGCCGGUAUGAGUUC AGCUGGUUGAGGGGUUUGGCCACU GGAAGUGGUUGGCAAAUGUCAAUG AAAGGAUGGAAAAGAGGAGUGUUU GUCAGUGACCCUAACGGCUUGAUA UUAACUSAGUUUGUUGAUCAUCAC AACAGUAUUGAAAAGUUCGUGUGG GUUUGAAUCCCGUUUGAAUCCGAU UUGAAUCCCGUAACUAAGUUACUU UAGACUGUGAAGAACAUUUUCGUU UCAGAACGUUCUUAUAGCUGACAA AAAU	342	23,3918129	32,1637427	14,3274854	29,5321637	37,7192982	61,6959064	0,91818182	1,63265306	-77,3	-59,5	1,12E-05	86,82	-22,602339	-0,5992248
>ofa_vegetal-miR1061	CGGUCGUUUUGCCCCAAAGUCAGU UCGCCCGGACGAAUAGUCGGUUCAC CCAGACUGUUACUGAGCUCCGUAG UCAAUGGAUUAGAGAACGAGAAAU AAACAUGUUUUGUGUAAUUUUGU	269	24,535316	24,9070632	21,5613383	28,6245353	46,0966543	53,5315985	1,14925373	1,13793103	-98,8	-89,2	0,00015321	64,34	-36,728625	-0,7967742

	UUCGUAAUGCCCACAAUGUCGUCU UUUUCGCUUGUCUAGUUUAAAGGG AAAAAAUAUCACAUCCUUCUUUAAA CUUUCCGUUCGGGCGGAGGGAAUU UAAUCUGGGCGAACUAACGUGUGG CGAACUGGCUGCCGGGCGAAACGAC CG															
>ofa_vegetal-miR8041b-1	UCUAAACAAAUUGUGGACUAUUUU UGUCUUGCUGUACACCAUCCUUUA GCGGGCGGGGCGGGGGGGGGGGA GUGGUGGGCUAGGGGGGUGAGGU CGAGGGCACGCAUGCGCUAUUAGA CGNUUAUCAUUUCCUUUGUAGGUG GUUCGUUUCUGCUAUUUUCAUUCC CUAAACAACCGUUUAUAGAGUUGG AAGUAGUGAACAAUUUUUUUUUU	214	29,9065421	19,1588785	16,3551402	33,6448598	46,2616822	52,8037383	1,75609756	1,82857143	-57,9	-52	0,00148524	44,23	-27,056075	-0,5848485
>ofa_vegetal-miR8011a	UUUUUGCCCAGCGUGCGUUCAUGU GUGUGUGUGUGUGUGUGUGUGUA UGUGUGUGUGUGUUUUCUUUAUC UUACCCGAACCGUGGUAGACUCGU GGUCAACCACCGUAUAACGCGUAUG CGCGUAGGCUAUGAGUAGCGUUGC GUGACGGCGUGUGACAUGCCAUGA CGUGUCCUGCAUUGCCACGGGUCA GCUGAUUUACGCGUGAGUAAUGUC GGCGUUGUCAGAGUGGAACGAUGA UGAGGAGAGUGAGUCAGUCUUCAG ACAUCAUGGAGCAGCCUCGGGAAG GA	290	32,7586207	18,2758621	19,3103448	29,3103448	52,0689655	47,5862069	1,60377358	1,69642857	-92,1	-58,3	1,65E-05	109,1	-31,758621	-0,6099338
>ofa_vegetal-miR5163b	UUCUGGACAACUUUCUGGACCCCUC UCUGGACCUCCUAUUUUUCUUGUC ACCUAACUGAUGUGAAUUUCUUUC CCAUUCAACAACGAUGUCAUAACUG AUAAGGUCGUCAAAAUGUCAUGUA ACGUUUUAAUCGUUUAUGUACUGA UUUAAAUAAGGUGACUUCAUCAUC GUACACUUCAACUGAAUUAUUUAA AAAGGGGGCCCAUAUUCUCCGGGG AAAAAAAAUUGGGGGUCCAGAAGG GAGGCCCAGAUAGGGGUCCACGU	266	19,924812	27,8195489	21,0526316	30,8270677	40,9774436	58,6466165	1,10810811	0,94642857	-79,1	-62,7	0,00013553	63,85	-29,736842	-0,7256881
>ofa_vegetal-miR8597	GUCAUAACACUUGAAUUUGUAUGU UGGUCUAUGUUUUGUGGCGUCAU UCUGGCCGCCCUGUUUUGAAUUAU AAUCAUAACUUUAAAAUGGAUAAC UUAGUGGUACACCACUUUCUUUUC CAGCACAACUGUUUCAUUGAGACU UGGACGCUUAAAAUGUGUUUUCCC GGUAUCUUAAGUGAGCUGGAAAAC UGGAACAAAACGAACGAACAAACAA ACAAACAGACCAGCAAACAUGUUAA AUAUUAUCUG	252	17,8571429	31,3492063	18,6507937	31,7460317	36,5079365	63,0952381	1,01265823	0,95744681	-57,5	-43,9	1,75E-05	38,72	-22,81746	-0,625
>ofa_vegetal-miR1886	AAGUGCUCAGCAGUUUUUGCAAAU CCUAUUAAUGCUAAUACAGAACCAG AGUGAAAUCUUUGAUUAACUCUGG UUUUGUAUUAGCGUUAAGAGGAU UUGCAAAAGCUGACCGCAGCAGGA	121	21,4876033	31,4049587	16,5289256	29,7520661	38,0165289	61,1570248	0,94736842	1,3	-67,9	-65,9	0,195119	6,95	-56,115702	-1,476087
>ofa_vegetal-miR11479	AAUUACAGGUCCGCAAGGCCCAAAA GGACAACAAGGUGCAAAAGGCCACC AGGUAACAUUUUGAUUAUUGCGGA CAUGAUGGUGAUGAUGACAAUGAC AAUGACGGUAAUGAUAACGAUGAU GAUCAUUAUUAUAGUUGUCACAAU	271	19,5571956	30,99631	20,6642066	28,4132841	40,2214022	59,4095941	0,91666667	0,94642857	-65,1	-63,3	0,00367402	41,77	-24,02214	-0,5972477

	GACAUCGAUAGAACACAUUGUCACC AAUUUCUGUCUCAUUCAUAAACAG UAAAUGCCACUUUGAUCCGAUUUC UUUCUAUCUAAUCCCUUCGUUUUU CCUUAGGGCAUUCCAGGCCCGGUA GGA															
>ofa_vegetal-miR12106	GUUUCAAUAACGAUGGAUCGUUUA CUUGUACUUGCAAAGAUGGCUUCG UCGGAAAUGGAGUUAUUUGUCUCG GUAAUUCUUUGAUUUUGUUGUUU UUUAUUACAGCUGCUUCCAUUACC UUUUUUUUGGUAAUGAUGUCGGU UGACUGCAAGAAGCCUCCACUUUU GCAGUGAAAUAUAGAGUUCUCCAG GCCUGCAGCGGCAUGGAUGGAAUG CUAAUUACUACGCAAGACAAUCAUA UCUUUAUAGAGAU	253	21,3438735	24,5059289	16,9960474	36,7588933	38,3399209	61,2648221	1,5	1,25581395	-65	-51,54	0,00029286	57,82	-25,6917	-0,6701031
>ofa_vegetal-miR7752	AGAUAAAUAUAUCUAUAUAUGUAU AUAUAUAGGUGUGAACGAUGUUGG UUUGCCCACGAUGAUGCCUUGGAG AAAAGGAUCCAUGGCCAGUGGAUA CACAACGCUUCUUCUUUAAAAAAUC AUAGGUUGAAUAAACAGAAGAAGA UGCCAACUUUUCUCGUUUGUGGUC UUUAAUUCAGAUCGACGUUUCGCC CAUUCGGGCUUCUUCAGCACUAAA AAUAUCAAUACUCGGAAUAAAAUU UACAA	247	18,6234818	32,7935223	17,4089069	30,7692308	36,0323887	63,562753	0,9382716	1,06976744	-59	-58,5	0,0141845	26,37	-23,88664	-0,6629213
>ofa_vegetal-miR1047	AUACUUACCUGACGCGGGACACACC UCUACGCACUUUGUGCUAGGUUGU CCCUGCUUAGGUGAGAAC	68	23,5294118	20,5882353	27,9411765	26,4705882	51,4705882	47,0588235	1,28571429	0,84210526	-31,5	-31,5	0,405317	5,03	-46,323529	-0,9
>ofa_vegetal-miR156d	ACUGCACUCAGGGUCAUGUGAUGG AAGUCUUCAAUCACUCUCUUUAAG CAGUGUGAUUGGAGACUUUUAUCG UGAUCUGAGAGCCUU	88	23,8636364	22,7272727	19,3181818	32,9545455	43,1818182	55,6818182	1,45	1,23529412	-40,3	-39,4	0,0660868	5,2	-45,795455	-1,0605263
>ofa_vegetal-miR8566	UUCAAUCUAUCGUUUGACAAGUUG UACAUUGUUUCAACUGACAAAUAU AUAAUUAUUUGUGUUCAAAGUUGA AGGCCAUAGAAGGCAGAUUUCUGU CUGCCAUUGGGAGGGUAUUUGGGA GAGCAGGGUAUUUUAGAAUUUUUC UUUUAGAGGAAGGUGGAGGAAGCA AUGUUUCUGCCAUUCUGUUAUCAA CUGUGAAGAGAGAGAUUAGG	213	25,3521127	28,1690141	11,7370892	34,2723005	37,0892019	62,4413146	1,21666667	2,16	-54,8	-45,7	0,00032371	38,86	-25,7277	-0,6936709
>ofa_vegetal-miR8767c	GAGAGAGGGCUCUGCCAAGCCCUCC UCGAGAGUGUGCGACUUGAAGAGA CGGCAGAAAUUCAGCGGGCCAUGA ACUACCUUUCCAUUUGACAUCUCU UGUUGAAGCUUGGCAGCACACUCU UUU	123	26,0162602	23,5772358	26,0162602	24,3902439	52,0325203	47,9674797	1,03448276	1	-41,9	-29,91	0,0193931	27,68	-34,065041	-0,6546875
>spi_animal-miR-283	UUACAGUCGUUCAGCCAUGUCAAA UAUCAGCUGGUAAAGGUCACAAUA AAGUGCUGCUUUAACAUGUUGACU CUUGCAGAACGCUGGAC	90	21,1111111	28,8888889	21,1111111	27,7777778	42,2222222	56,6666667	0,96153846	1	-22,9	-22,9	0,214063	21,01	-25,444444	-0,6026316
>spi_animal-miR-4433a-2	GCAGAGGUUGCCCUUACACCUUGU UGGGACCAGUUGUACAAAGCGCUA UGGGAAUUCGUUGACGACUGCCCC ACAGGAGUGGGGGUGGCUAACCUC ACU	100	30	21	25	23	55	44	1,0952381	1,2	-40,2	-40,2	0,0625107	11,42	-40,2	-0,7309091
>spi_animal-miR-4968	AGAGUUGCUUCGGCAUCAGCAGCA ACAGCAGCAGCAUGACUCAGAUCAA	93	22,5806452	31,1827957	25,8064516	19,3548387	48,3870968	50,5376344	0,62068966	0,875	-27,2	-27	0,482622	4,28	-29,247312	-0,6044444

	GGUCACAUUGCGCAGCUGUUUCAA CAGAUACUACAGCAACAGU															
>spi_animal-miR-143-2	ACUGGUGCAGUGCUUUACCAACUG AGCUAACAAGCCANNNNNNNNNNN NNNNNGUAAUAGCCAGCAUGCUUG UGAGCAUAUUGCAAGGACUCGCUC CGUU	101	19,8019802	21,7821782	20,7920792	20,7920792	40,5940594	42,5742574	0,95454545	0,95238095	-20,7	-19,9	0,105557	17,5	-20,49505	-0,504878
>spi_animal-miR-4050	GGACAACAUCAGGUACAGUGAACA GUCAUGUGCAACCUGUGUCAUUUU ACAGACCUUCAGCUUGAAUUUGUU GUUUUACUGUUACUGAUGUCUGCA C	98	20,4081633	24,4897959	20,4081633	33,6734694	40,8163265	58,1632653	1,375	1	-29,6	-27,4	0,0257381	7,81	-30,204082	-0,74
>spi_animal-miR-7183-2	GGGUGCAAUACAGUUCAAGAUGAA AUUAAAUGUUUUCUGGGGUACUCU GAAGGUUUUCUUAAACCUUACAUC UGAAUUGGUAUUGCAAAC	91	20,8791209	29,6703297	14,2857143	34,0659341	35,1648352	63,7362637	1,14814815	1,46153846	-23,2	-18,6	0,00401141	12,1	-25,494505	-0,725
>spi_animal-miR-5345a	UCAUCACUGGCCAUUCCAUUGAAAA GGUGAAGCUAAUUCUGAUGAAGUG AUCAUUUUUCACCAUUUGUACAGG AAAUUCCAGGAGGU	88	20,4545455	29,5454545	18,1818182	30,6818182	38,6363636	60,2272727	1,03846154	1,125	-18,8	-14,2	0,0251935	13,54	-21,363636	-0,5529412
>spi_animal-miR-3306	CGGUAAUUUUUUUAAUCGAUAGAU UUUGCUCUCGAUUGGUCAUUUAUU GACCGAUGUCAAUCGAUAUGAAUC AAUUAAUA	81	16,0493827	28,3950617	13,5802469	40,7407407	29,6296296	69,1358025	1,43478261	1,18181818	-18,5	-18,5	0,483478	4,6	-22,839506	-0,7708333
>spi_animal-miR-7183-1	UUAGUUGAAUUUUGAAUUGGUAU UGCAAAUGAGAGUUAUAGCGUUUG ACACAGGUUAUACGUCCCUCUCCCU UAAAAUCCCAAUAAAUUCAACCUC	97	15,4639175	29,8969072	19,5876289	34,0206186	35,0515464	63,9175258	1,13793103	0,78947368	-24,3	-24,3	0,317845	2,74	-25,051546	-0,7147059
>spi_animal-miR-8984	UAGUUCAUAAGUGGCUUCUGUUGA AGCCUGGAUUUCCUCACUCUGGCU UCUGUUCCUACAGAUUCUUUAACU GAAGUUCAACUUUGAAGAU	92	18,4782609	21,7391304	20,6521739	38,0434783	39,1304348	59,7826087	1,75	0,89473684	-23,7	-23,7	0,280638	9,43	-25,76087	-0,6583333
>spi_animal-miR-8325-2	ACUACAACGUGCACUACUGAGUUA GGAAUGGCAUCAGGAGGUUUUGCU AAGCAUCAAGAAGCUAGAGUUGCA UAACUCAGUAGUGUACGCUGUCGU	97	25,7731959	28,8659794	18,556701	25,7731959	44,3298969	54,6391753	0,89285714	1,38888889	-39,5	-38,2	0,173761	4,33	-40,721649	-0,9186047
>spi_animal-miR-6794	AUCUCACUCUCAGUCCCUUCUCCAG UUUUCUGACCAGGAGGCGCAUCGG UAAAAGAACUGGAUAGGCUUGACG GUGACUC	81	23,4567901	22,2222222	27,1604938	25,9259259	50,617284	48,1481481	1,16666667	0,86363636	-24,8	-24,8	0,179386	6,45	-30,617284	-0,604878
>spi_animal-miR-100	GGUUUCAGCGGUUCACUUGAACCC GUAGAUCCGAACUUGUGGGAAUUU UUCACCACAGGUUCGUAUUUAUGG UCCACGUGUACUGCAAUGAAGUA	96	23,9583333	22,9166667	20,8333333	31,25	44,7916667	54,1666667	1,36363636	1,15	-39,7	-39,3	0,0383196	5,54	-41,354167	-0,9232558
>spi_animal-miR-2337	GGCAAGGAUGAGGGACUCAAACCCA GCUUUUGUUGAGGUUGCACACCAG UAGAGGUGGUUUCUUAUUCCUUUC AUCCAUUCUU	84	23,8095238	21,4285714	21,4285714	32,1428571	45,2380952	53,5714286	1,5	1,11111111	-24,9	-22,6	0,0593046	16,76	-29,642857	-0,6552632
>spi_animal-miR-2769	CUUCAGAGCAGAUAUCAAUAAUAU UUUUUGAACGAAUCCUGGCAAAAC AACUUGAGCCUUCUUAUCAAGAUA UAUUAUCAGAUUUCAUCUCUGCAA	97	12,371134	34,0206186	19,5876289	32,9896907	31,9587629	67,0103093	0,96969697	0,63157895	-19,5	-19,5	0,106031	5,19	-20,103093	-0,6290323
>spi_animal-miR-11906	GUGGCAGCCGCUCAACUCGGAUCCC UUGAACGGUCUAACCUGACUGAAC GGGAACAAAUUGAAACACGAAGGA UCAGAGAUUGCAAGGCAGCAAU	96	26,0416667	32,2916667	23,9583333	16,6666667	50	48,9583333	0,51612903	1,08695652	-26	-26	0,267265	5,39	-27,083333	-0,5416667
>spi_animal-miR-182b	CUCGAGCCUUGUCGAGGAAUAUUG GCCCUCCGUCGUUUUCAUAAUGCCA CGAACUCGGGCCAGAAUUCCCCAGU ACAGCUCUUG	85	22,3529412	20	30,5882353	25,8823529	52,9411765	45,8823529	1,29411765	0,73076923	-27,4	-26,3	0,135359	6,22	-32,235294	-0,6088889

>spi_animal-miR-10692-3	GGGAGCUUGCCUGGUGUCACUCUU AUUUGUCAGAUCGGAAGCAAAUUG UCCGUGUAAAUGGGAGUGAGUCAA GCGAAGCUUUG	84	30,952381	22,6190476	16,6666667	28,5714286	47,6190476	51,1904762	1,26315789	1,85714286	-29,9	-29,6	0,102119	5,61	-35,595238	-0,7475
>spi_animal-miR-193a	CUUUUGAAAUCCCCAUCUUAAAAG AAAAUGGAACAGCUUUACUGGCCU GUUAAGUUUCUGGGAUUUUCAAG GA	74	18,9189189	29,7297297	17,5675676	32,4324324	36,4864865	62,1621622	1,09090909	1,07692308	-18,7	-16,9	0,0334878	14,92	-25,27027	-0,6925926
>spi_animal-miR-6531	UCUGUACGCGAACUUCGAUAUAAU AUUUGAUUAUCGAUCCAUGUAAGA GGAACUUGAUCAAUAUUUAUUAGA CUUGGUGUACUUG	86	18,6046512	29,0697674	13,9534884	37,2093023	32,5581395	66,2790698	1,28	1,33333333	-19,1	-19	0,0926734	6,94	-22,209302	-0,6821429
>spi_animal-miR-11593	GACGAAAAGACAACCCUCAACUUCA GCGAUGGAUACAAAUUUAAACAUU GAUGAUUUGGAUCCAACGUCCAUG AAAUUCUGUAGGUGGUAACUUUUC AUU	101	17,8217822	33,6633663	18,8118812	28,7128713	36,6336634	62,3762376	0,85294118	0,94736842	-23	-23	0,141084	5,54	-22,772277	-0,6216216
>spi_animal-miR-4433a-1	GCAGUGACUGUUGUACUACUAGUA GCAACAGCAGAGACAGGAGUGGGG GUGGGUGCUGCAGUCACUGUGGCA GUAAUAGCAGCAGCAGACACAGA	96	34,375	28,125	18,75	17,7083333	53,125	45,8333333	0,62962963	1,83333333	-27,5	-18,3	0,0318824	26,77	-28,645833	-0,5392157
>spi_animal-miR-9502	UGGUUCCCUUGUUUCUCCUACCAC UUGUGUGAAAGAAACGAAGACUCG GAAAACGCGUGAAUGCUCUUUACA UAAGAGAAGAGAGAGCAUGUGAAA AA	99	23,2323232	33,3333333	18,1818182	24,2424242	41,4141414	57,5757576	0,72727273	1,27777778	-22,3	-21,3	0,0874779	15,83	-22,525253	-0,5439024
>spi_animal-miR-4030	GGAAUUCUGCAUUAAAUUACACAC AAAAAUUGAUAUUGCACGAAUCAC AAAGUGAUGAAAGUGAGAUCAGCU UUAAAGUGCAACUUUGAUGUGGAA UUUA	101	18,8118812	38,6138614	12,8712871	28,7128713	31,6831683	67,3267327	0,74358974	1,46153846	-26	-26	0,0906545	9,14	-25,742574	-0,8125
>spi_animal-miR-2795	GACAAGUUUGGUGAUACGCCUUUC UUGUAUGCUUGUGGCAUGGCCUAC GGGUGUAUAGAUGAAGAGGAGUAU GCGCAAAAUCUUCCA	88	28,4090909	23,8636364	17,0454545	29,5454545	45,4545455	53,4090909	1,23809524	1,66666667	-25,7	-23,6	0,0113892	12,06	-29,204545	-0,6425
>spi_animal-miR-9190	UUUGGUGUUAAUAGGCACGAGUAA UUUUUUAAAGACAAUAGAAUUUGG GCUCCUGUGAUUGGUAGUCUCUGA AAAAUCUACAAGUGCUUAUUAAACC UAA	101	19,8019802	31,6831683	12,8712871	34,6534653	32,6732673	66,3366337	1,09375	1,53846154	-27,8	-27,1	0,0369835	11,44	-27,524752	-0,8424242
>spi_animal-miR-29b-1	CAUCUCUAAAAUCAAUUCACGGUGA ACAUUCAGUUGGAAAAACCAAAUU AUCUUGUAACACUCCCACUGACGUA GCACCAUUAGAAAUUUUUACGAGA AC	101	12,8712871	36,6336634	22,7722772	26,7326733	35,6435644	63,3663366	0,72972973	0,56521739	-19	-19	0,246653	5,26	-18,811881	-0,5277778
>spi_animal-miR-1772	UUGGUGGUUCUUAUUCGUGUAGCC UUUGGUGCCGAGGAACUCGUUGUC UGUUCGGUGUGGGUCCCUAACACG CUCGCGAAACAGAUACCACUUU	95	27,3684211	15,7894737	23,1578947	32,6315789	50,5263158	48,4210526	2,06666667	1,18181818	-28,7	-17,3	0,0703369	19,8	-30,210526	-0,5979167
>spi_animal-miR-6544	CGAGGAUUUUCCAAAAAUUUCAGA AAAGGAUAUGAUUGAUCUUCCAUU UCUAGGAUUUCCUGGAAAUCCAAG	73	17,8082192	32,8767123	16,4383562	31,5068493	34,2465753	64,3835616	0,95833333	1,08333333	-18,5	-18,5	0,0406176	10,34	-25,342466	-0,74
>spi_animal-miR-12368	CAAAGGGGAGAGUUUUUCUUGCCC UGUGGCGAAGUUCAAAGUGCAAGA AGACAGCCUCUGACCUAGA	68	27,9411765	27,9411765	20,5882353	22,0588235	48,5294118	50	0,78947368	1,35714286	-19,8	-19,2	0,108004	8,02	-29,117647	-0,6
>spi_animal-miR-84	UCAUAUUUCUCAGGCUGCAGAGUC AGGCUAAUCAGUUGUAAUGAUCAC AAUGUUUCAACUACUUUACUGCUU GUCUGCAGCAGGGAAUAAAG	93	20,4301075	27,9569892	19,3548387	31,1827957	39,7849462	59,1397849	1,11538462	1,05555556	-26,7	-25	0,0367477	16,47	-28,709677	-0,7216216
>spi_animal-miR-130a	GUGAGAUAGUAGAGCUGUUGCUGC UUGAACUCAGUGCAACAAUGAAAC	95	26,3157895	27,3684211	21,0526316	24,2105263	47,3684211	51,5789474	0,88461538	1,25	-23,4	-15,3	0,034763	24,08	-24,631579	-0,52

	UGCUGCUACUUGAACUCAGUGCAA CGGAAGAGCUGCCGCUACUUGA															
>spi_animal-miR-3282	GCUAAAAUGCAGUCAUGCGUUUUU UAAUUACCUGUGUAACGGGUUCUA GUUCUGCUUUUGCCGGCCGGGUAU AAUUGACAAUCUCAUGGUUGAUUU UGGA	101	23,7623762	20,7920792	16,8316832	37,6237624	40,5940594	58,4158416	1,80952381	1,41176471	-25	-23,4	0,0550423	13,94	-24,752475	-0,6097561
>spi_animal-miR-6872	UCGUUCCCAGGGUCUCUCAUCUUCC GGCUCCAUGGGUCUCUUCUCUCUC GCAUCAGGAGGCAGUGAGAUGAGA GAACUGUGAAAUG	87	26,4367816	18,3908046	26,4367816	27,5862069	52,8735632	45,9770115	1,5	1	-30,2	-20,5	0,0225855	17,61	-34,712644	-0,6565217
>spi_animal-miR-10b	CCUAGAUCAAGGUGGGAUUGACAC CUGCCAGGGCGAUAGCGGUGGACC GCUGGUGUGCGAGUUCAAUGGCAC CUGGUAUCUUGA	85	34,1176471	20	22,3529412	22,3529412	56,4705882	42,3529412	1,11764706	1,52631579	-29,9	-29,9	0,322778	7,69	-35,176471	-0,6229167
>spi_animal-miR-2285cj	ACGUGCAGGUCAACUGUUAUCUUA GUUUGUUGUUUUCUGUUCUGCGGC AAACUUUAGAAAAAAAACUGGAAU GAACUAAUCAUUUCUUGCAUAC	94	18,0851064	28,7234043	17,0212766	35,106383	35,106383	63,8297872	1,22222222	1,0625	-20,3	-20,3	0,121303	7,57	-21,595745	-0,6151515
>spi_animal-miR-1	AUGCUGGAAGCUAAGGCAGUCAUC AUACGUACUGCCAAAGGGUUUAUU CCGCUUUGAGUAAGUGCAUACUUC CUUACAUGCAGUGA	87	22,9885057	26,4367816	20,6896552	28,7356322	43,6781609	55,1724138	1,08695652	1,11111111	-23,1	-17,7	0,0912936	27,03	-26,551724	-0,6078947
>spi_animal-miR-574-1	UAGUCCGUUGUCAGUAUCACAUAA CUGUGUGUGUGUGUGUGUGUGUG UGUGACCUCACUGUACAAUUUGUA GAUCAGGACAAUGGAUCA	90	26,6666667	22,2222222	15,5555556	34,4444444	42,2222222	56,6666667	1,55	1,71428571	-22,3	-10,57	0,00622094	26,22	-24,777778	-0,5868421
>spi_animal-miR-2172	AGAUGUAGAAAGGUACAUGUAUAG UAUUAUCUAAUAAGUUAUUAUGUA GCACAUUGACCUUGCCAAUAUAUA GGGUACCUUAAACUACAAUG	93	17,2043011	36,5591398	12,9032258	32,2580645	30,1075269	68,8172043	0,88235294	1,33333333	-18,8	-18,8	0,194619	8,94	-20,215054	-0,6714286
>spi_animal-miR-1497e	CGUCUCCUCGUUUGGCUAGGCCUU UAAUUUUUAAUCAAAAUGAUGAAA GCAACUUUUCAUUGAAGAAUUACA GGUAAAGCCCAAACGACCGAGGGU	97	19,5876289	30,9278351	19,5876289	28,8659794	39,1752577	59,7938144	0,93333333	1	-27	-26	0,0195312	12,54	-27,835052	-0,7105263
>spi_animal-miR-3934	AAAGUUUUGAGGGUUUCAGGGUAA UUCUUGUUUCCUAUCAGGUGUGGA AUCUGGAUACAAUGUUACCCAUGC AAACACUCUCAAGACAUG	91	21,978022	27,4725275	17,5824176	31,8681319	39,5604396	59,3406593	1,16	1,25	-30,6	-30,5	0,0979156	7,07	-33,626374	-0,85
>spi_animal-miR-8325-1	GGCGCACGUUGGAUAUGCAAUGAU AAAUAGCCAACGAGCGCGUACUCCU CGUUGGCUCUAUAUAACCAGUCUA GUAUCCAACUAGUGCAAA	92	21,7391304	29,3478261	23,9130435	23,9130435	45,6521739	53,2608696	0,81481481	0,90909091	-32,6	-30,7	0,202744	7,63	-35,434783	-0,7761905
>spi_animal-miR-881	GGCCCGGAUUAUCAGAAAGGAAAU UGAUGACAACGUAGCCCCCAGAAGG GACCAUAACUGUGUCUUUUCUGAU CGUGCGGUCA	84	26,1904762	27,3809524	22,6190476	22,6190476	48,8095238	50	0,82608696	1,15789474	-22,4	-17,77	0,0100128	14,6	-26,666667	-0,5463415
>spi_animal-miR-10692-2	GGGAGCUUGCCUGGUGUCACUCUU AUUUGUCGGAUCGGAAGCAAAUUG UCCGUGUAAAUGGGAGUGAGUCAA GCGAAGCUUUG	84	32,1428571	21,4285714	16,6666667	28,5714286	48,8095238	50	1,33333333	1,92857143	-31,7	-31,1	0,0765071	6,62	-37,738095	-0,7731707
>spi_animal-miR-9546	UGUAAAAAAUUUGUACUGAAUUUA CUUGCAGGUAUACCAUCUUUAAGG AUCACAUUACACUUGCAGACUGUA UCUUUUGAUACAAAUUUUUUGUU	96	13,5416667	30,2083333	14,5833333	40,625	28,125	70,8333333	1,34482759	0,92857143	-19,3	-16,9	0,0431699	10,27	-20,104167	-0,7148148
>spi_animal-miR-67	UUAAAGCCACUGGAAUGAGGUAAA UCAAACACAUAUAUUAGGUAUCUC UAAAACCUGCAAUGAUGAUUGGAU AUACCUUAUUCAGUGGGUUGAC	95	18,9473684	34,7368421	15,7894737	29,4736842	34,7368421	64,2105263	0,84848485	1,2	-28,2	-24,7	0,0163321	12,91	-29,684211	-0,8545455

>spi_animal-miR-2030	UGACCGGAUAGCAUAACAUUGUAAGAGAUCUUUAAGAGCUCUUGCAUUGCUGUGCUGUCCGGGAG	66	27,2727273	24,2424242	18,1818182	28,7878788	45,4545455	53,030303	1,1875	1,5	-35,6	-35,6	0,454354	1,38	-53,939394	-1,1866667
>spi_animal-miR-4882b	ACGUUACCAGCUUCAUUCUGCUGUGUAGUGAAGAUGGAGAAACCUUUCAGGAUUAUCAAGAAAAUGAUGCUGUAAAGG	79	24,0506329	31,6455696	15,1898734	27,8481013	39,2405063	59,4936709	0,88	1,58333333	-20,7	-20,3	0,230439	9,37	-26,202532	-0,6677419
>spi_animal-miR-754c	CAAAAAUGAAAAAAUGUUACUUGAGUUGAAACGUCACUCAAAAGGUGGCAAAGAAUAAGGGAAAUAGUUUUAUCUUCAUGUAGACUUUGUUUCUUUUACA	101	17,8217822	37,6237624	11,8811881	31,6831683	29,7029703	69,3069307	0,84210526	1,5	-19,6	-19,6	0,0576212	10,86	-19,405941	-0,6533333
>spi_animal-miR-9915	CAAUGAAGCGAGUUCGCUAUCUGCUUCUGGCUCUAAUAUCUUCAACAGAACAAAGAUAGCCAUAACUCAUUUCAGUC	78	15,3846154	30,7692308	24,3589744	28,2051282	39,7435897	58,974359	0,91666667	0,63157895	-22,9	-22,9	0,558824	1,14	-29,358974	-0,7387097
>spi_animal-miR-7582	CUGUUUGGUUGACAUGCCAUAAUUUGUCUUUCUUCUACACAUGUAGUUCAUUAUUUAAAGAAAAUAAAUUAUGCUGUAUAGCCAAAAAA	90	13,3333333	33,3333333	14,4444444	37,7777778	27,7777778	71,1111111	1,13333333	0,92307692	-22,3	-22,3	0,153654	5,4	-24,777778	-0,892
>spi_animal-miR-582	GAGAGAAAAUUAGCAUACAUUAUGCACAAGACAACGUGUACAAACAAAUACAGUUGUUACUCUCUGUGUGUGUGUGUGUGUGUGCUAGUUUCUGUU	99	23,2323232	28,2828283	14,1414141	33,3333333	37,3737374	61,6161616	1,17857143	1,64285714	-31	-21	0,00493392	23,91	-31,313131	-0,8378378
>spi_animal-miR-87a	CUGCUGCUGUUACUUCGUCUGCAACUGAGAGGUUUCUUGCCACAGCUCUCCAGAACACUUGGUAAUUUGAAUGAAAUCACAGCAGUGG	89	22,4719101	23,5955056	23,5955056	29,2134831	46,0674157	52,8089888	1,23809524	0,95238095	-21,7	-10,77	0,0543617	22,15	-24,382022	-0,5292683
>spi_animal-miR-4692	AAAAUUUUGAAUAUAGCUUGUACCAAGGCCUUAGACGUUGGGAUCAUCCUGGAUGGCUCAGGCAGUGUGGGUAAAAACAACUUCAAAAUAGC	93	23,655914	32,2580645	17,2043011	25,8064516	40,8602151	58,0645161	0,8	1,375	-21,2	-12,8	0,0815134	11,26	-22,795699	-0,5578947
>spi_animal-miR-7480-3	GUUGCUUUUCUGUUGAACGUUAGAGAAAUGUCAUCGUCAAGAAAUAUCUAAUACAUGUAAUGGGUGAUUUUCUCUAAAGCGUGGAAGAAUAGCCUG	97	22,6804124	29,8969072	13,4020619	32,9896907	36,0824742	62,8865979	1,10344828	1,69230769	-23,2	-23,2	0,101737	7,88	-23,917526	-0,6628571
>spi_animal-miR-7480-2	GUUGCUUUUCUGUUGAACGUUAGAGAAAUGUCAUCGUCAAGAAAAUAUAUAAUACAUGUAAUGGGUGAUUUUCUCUAAAGCGUGGAAGAAUAGCCUG	97	22,6804124	30,9278351	12,371134	32,9896907	35,0515464	63,9175258	1,06666667	1,83333333	-23,2	-23,2	0,102965	8,43	-23,917526	-0,6823529
>spi_animal-miR-7480-1	GUUGCUUUUCUGUUGAACGUUAGAGAAAUGUCAUCGUCAAGAAAUAUAUAUUACAUGUAAUGGGUGAUUUUCUCUAAAGCGUGGAAGAAUAGCCUG	97	22,6804124	29,8969072	12,371134	34,0206186	35,0515464	63,9175258	1,13793103	1,83333333	-23,2	-23,2	0,0851638	9,26	-23,917526	-0,6823529
>spi_animal-miR-3877-2	AUGCUGCCAUUUGGUUCUUUGUUGCUUGGGAAAGGUCGGGAAGUGUGUUCUGGAUACCUUCCAAAAAAGCACCAAAAUCGGAAGGUG	88	28,4090909	25	17,0454545	28,4090909	45,4545455	53,4090909	1,13636364	1,66666667	-24,5	-16,3	0,0483542	12,76	-27,840909	-0,6125
>spi_animal-miR-4190	UAGUUGCACGGGGAUAUGAGUUUAUAUUUACCGUGGAGUGUAGAUCAUAUCUCUAACUCCUGCAAAGC	69	23,1884058	26,0869565	17,3913043	31,884058	40,5797101	57,9710145	1,22222222	1,33333333	-19,8	-18,1	0,136437	7,47	-28,695652	-0,7071429
>spi_animal-miR-7341	UGGAAAGAAGGCCCUGGUUGAAGCAGAGAAAUGCACUGACACUUCUCAGCUAACAGUGUCACAAUAUGCGGCAGCCAGGGACUUCAUUAUU	92	25	30,4347826	21,7391304	21,7391304	46,7391304	52,173913	0,71428571	1,15	-33,6	-33,6	0,288416	5,1	-36,521739	-0,7813953
>spi_animal-miR-1421t	CACUGUUUGAUGGCAACCAGUGUUCAUUUAAAACAGGUUAAAUGUGGAAACCUGUUUGAUUUUACCAAGAGUAACAACAUCAAACAAAU	90	16,6666667	36,6666667	16,6666667	28,8888889	33,3333333	65,5555556	0,78787879	1	-19,5	-19,15	0,111051	10,24	-21,666667	-0,65

>spi_animal-miR-3877-1	GGAAUGCUGCCGUUUGGUUCUUUG UUGCUUGGGAAAGAUCGGGAAGUG UGUUCUGGAUACCUUCCAAAAAAG CACCAGAAUCGGAAGAUGCA	93	29,0322581	25,8064516	17,2043011	26,8817204	46,2365591	52,688172	1,04166667	1,6875	-25,3	-20,1	0,0915933	16,08	-27,204301	-0,5883721
>spi_animal-miR-3572	CAUUGGGGUUAAGGGAACUGUUUU CCCAAUGGGGAACAGGGCAAGAUU UCCAUAUAACCCCAUAC	66	24,2424242	28,7878788	21,2121212	24,2424242	45,4545455	53,030303	0,84210526	1,14285714	-24,7	-15,3	0,167933	15,05	-37,424242	-0,8233333
>spi_animal-miR-574-2	CUGCACGCAGCACAAAGAAAGCAUC UGAGUCCCUUACUCAGGGCCCGCGC AGCAAAGACUGAGUGUGUGUGUGU GUGUGUGUGU	85	30,5882353	22,3529412	23,5294118	22,3529412	54,1176471	44,7058824	1	1,3	-27,8	-18,9	0,0393616	25,53	-32,705882	-0,6043478
>spi_animal-miR-384-2	ACCAUCUAUUCCUAGAAAUUUUUA CCCGUUGUUGGUAGGAAUGAGAGC CAGGGGGGGAGGGGGGUUGGGGG GUAGAUAAAUUUUAGCAUAAUUUU	96	32,2916667	25	11,4583333	30,2083333	43,75	55,2083333	1,20833333	2,81818182	-23,3	-19,9	0,0423843	15,34	-24,270833	-0,5547619
>spi_animal-miR-7430	CUCUUCUUGGCCAGAAAAUGUGCC GAAAGGAACUCCGAUUACCUCAAAG AUUCUCUGCCUUACUUGGGCAGAU CUCCUCUUGCCAGAGAAAAA	94	19,1489362	27,6595745	26,5957447	25,5319149	45,7446809	53,1914894	0,92307692	0,72	-23,9	-21,1	0,0729076	20,19	-25,425532	-0,555814
>spi_animal-miR-9362	GCUUGGAUACAUGCAAGCACUGGU CUUGAAGUUAAGCGUCUUGCAAUU UCUUCGGCCAGGCUGGCUUGAAUG CAGGU	78	28,2051282	20,5128205	20,5128205	29,4871795	48,7179487	50	1,4375	1,375	-27,9	-27,3	0,15429	6,93	-35,769231	-0,7342105
>spi_animal-miR-2756	CUUUUGGAUUUGAUGUAGCUGCU UAGGGGACCAAGACUUAAAGCUGU AACUUUACGAAUAAAAUAUUUGCU UUAAGCAAAUAUCAUCUCAUAUCCA ACGC	101	16,8316832	31,6831683	17,8217822	32,6732673	34,6534653	64,3564356	1,03125	0,94444444	-21,6	-20,6	0,0406355	21,96	-21,386139	-0,6171429
>spi_animal-miR-3858b	CUACAAACUGAGCUACAAAGCUUCG AAGAGGCUAUACCAAAAGUGCGAU GAAAGUUAAGAAUUGUUUGUCACU UGAAACUCUUUAGCUUCUAGUUUG GAU	101	19,8019802	32,6732673	16,8316832	29,7029703	36,6336634	62,3762376	0,90909091	1,17647059	-21	-19,9	0,0570433	20,65	-20,792079	-0,5675676
>spi_animal-miR-2285bt	UUUAUAAACAGAAUAACGUCUAAA AUGCUUUCCUUGAAGGCCAUCAAU UAUAACGCUUUUAUGAAAAAAGUU CAUUUGGGAGGUUUUUCUUGUUG AUGAU	101	16,8316832	31,6831683	12,8712871	37,6237624	29,7029703	69,3069307	1,1875	1,30769231	-20,1	-15,8	0,0190354	11,04	-19,90099	-0,67
>spi_animal-miR-1823	GAAUGUUUCAACUCUGUACUGGAA GUGUUUAGCAACUACAACAGGAUU AAGAUUGAGCAUUUGACACUUCUC ACUGUAAGACAGUGAAUCAACU	95	18,9473684	32,6315789	17,8947368	29,4736842	36,8421053	62,1052632	0,90322581	1,05882353	-19,2	-15,6	0,0371531	11,99	-20,210526	-0,5485714
>spi_animal-miR-4915	GGUUUCGCUAAUCUGUGCUCACUG UUAGUUUUAAAAACUUUGAUGCUC GUGCCUCUUUACUAAGUUUAUAGC CUACACGUGAGAAAAAGUAGUAGA ACUC	101	18,8118812	26,7326733	18,8118812	34,6534653	37,6237624	61,3861386	1,2962963	1	-19,7	-16,6	0,063529	10,97	-19,50495	-0,5184211
>spi_animal-miR-10232	AUGGUUCGAGUGCCAUGUAAUAAA CUACUUAUUAACCUCGCUUGCUCG AACUGGGGUUGUCCUAGGUCGUUU UUGUAUGGAACUCGCACAGC	93	23,655914	21,5053763	21,5053763	32,2580645	45,1612903	53,7634409	1,5	1,1	-28	-28	0,198847	4,2	-30,107527	-0,6666667
>spi_animal-miR-891b	AUGUUGGAUUUAUGUUUUUGUU UGUGCUUAGCAAAGAACAACUGCU AACCACUGAAUGCAAAGAACAUGAG UUCAAUUU	81	18,5185185	30,8641975	13,5802469	35,8024691	32,0987654	66,6666667	1,16	1,36363636	-29,7	-29,7	0,463556	1,89	-36,666667	-1,1423077
>spi_animal-miR-2022	UCCUCCAGCGUACGAACGGAUAAAA GUUUCCAGCACAUGUUUAUCAUUU GCUAGUUGCUUUUGUCCCGUUUGU UCAUUGGAUUU	85	18,8235294	20	21,1764706	38,8235294	40	58,8235294	1,94117647	0,88888889	-31,5	-29,6	0,183114	2,84	-37,058824	-0,9264706
>spi_animal-miR-7402	UCUUGUAAAUUCUGAGUUAAGACU GUACGUGAUUUAAAAGAAUAAUUG UUUUAUUCAGUUUUAAAACUGUCA	98	19,3877551	30,6122449	9,18367347	39,7959184	28,5714286	70,4081633	1,3	2,11111111	-21,1	-19,2	0,098935	8,38	-21,530612	-0,7535714

	AUUUUGUUGCAGGAUUGUAGCAGGA															
>spi_animal-miR-29b-2	UAACAUUCAUUCGCCCGUCAGAGGGGAGUGACUGAUUUCCUCUGGCCCAGGUUACCUUUGGUAUAGGAAUACCUCUUACGGCACAAUGAAUGGAU	96	23,9583333	23,9583333	22,9166667	28,125	46,875	52,0833333	1,17391304	1,04545455	-31,5	-24,07	0,158777	15,63	-32,8125	-0,7
>spi_animal-miR-8335-1	AAUUUAUGACAAGAAAACCUCACAAGAAGGAGUAUAACAGCUCGAAUAUUUCGUCAUUUGAUUAGCUUUGUUGUUGUUGUUUUUUUUUUCAUAAAAA	100	16	32	12	39	28	71	1,21875	1,33333333	-19,8	-13,7	0,0102111	18,8	-19,8	-0,7071429
>spi_animal-miR-8335-2	UUAACUCGCUGCGAUGCAUGCAUUAAAGAACUCAUUCGUUCGCUGCGCUCACCCGUUGUUGUUGUUGUUGUUUUUUCAGGAUGCAUCGCAGCUAGUGAA	100	23	19	22	35	45	54	1,84210526	1,04545455	-33,1	-31,6	0,126589	6,73	-33,1	-0,7355556
>spi_animal-miR-4644	ACUCCUACGGUAGAGAUGGAGAGAGAAAAGAGCAGGGACGAAGCUGGCUUGUGGCUGAGCCUGUUGAGGUCUCUCUACGUCAGUCGACGCGAAGGUGA	99	35,3535354	25,2525253	19,1919192	19,1919192	54,5454545	44,4444444	0,76	1,84210526	-34,1	-33,6	0,16278	3,73	-34,444444	-0,6314815
>spi_animal-miR-9	UCUUUGGUUUUCUUUAGUAGAAAAAGAGACUUAAAUGUGGCGUCCCACAUUAUGUUGUCGUUUAAUUUCGACGUAAAACCAAGUC	86	18,6046512	27,9069767	16,2790698	36,0465116	34,8837209	63,9534884	1,29166667	1,14285714	-19,4	-16,7	0,0245101	18,02	-22,55814	-0,6466667
>spi_animal-miR-20b	UACUGUAGUGUGAGCAUAAUAGUUUGUUGGCGCGAAUGUUUAUUGUUUGUCUUCGGUCUCCCUUUAGGCAAACAAUGGUAGCCAACUACACAA	94	22,3404255	24,4680851	18,0851064	34,0425532	40,4255319	58,5106383	1,39130435	1,23529412	-25,8	-16,9	0,0823922	20,58	-27,446809	-0,6789474
>spi_animal-miR-9425	CUUCUGUUUGGAGCAAGAACACCCAAAAUAGCUGAAUUUUAGUUUUAAGCUAUAUUGAGUGUUCUCAUUCCCAGCAGGCU	81	18,5185185	27,1604938	19,7530864	33,3333333	38,2716049	60,4938272	1,22727273	0,9375	-28,9	-28,8	0,0700871	5,08	-35,679012	-0,9322581
>spi_animal-miR-961	CGAGAAGACAAUCGGCUGACAAUUUUUGAUCAUCAGUAAGCGGCAGAAUAUUAGCAGUUUUACCCCUAUGAUAUAAACUGAGGCUGAUGUUUCAUC	97	20,6185567	30,9278351	18,556701	28,8659794	39,1752577	59,7938144	0,93333333	1,11111111	-19	-16,5	0,00921669	15,56	-19,587629	-0,5
>spi_animal-miR-7383	AACUGAAUGUAGUCAAACAUGAGUGCACAUUUGAAGCAAGGUACCUGAGGUCCAUCUGGCUCCAAAUGAUGUGCUAACAUUACAAUCACAUUCACUA	98	18,3673469	33,6734694	21,4285714	25,5102041	39,7959184	59,1836735	0,75757576	0,85714286	-25,2	-25,2	0,108225	6,24	-25,714286	-0,6461538
>spi_animal-miR-302c	CAGAUGUAGUAAUAGUAUUAAAAAACUGUCAGAGGUUUCCAUUUCAGCUUUAACAUGGGGUUGAUGAGGAAGGUUUUGUUACAUAAAAUGAGCUCCAUAUU	101	21,7821782	31,6831683	11,8811881	33,6633663	33,6633663	65,3465347	1,0625	1,83333333	-20,2	-20	0,0871685	9,45	-20	-0,5941176
>spi_animal-miR-9388	AGCGUUUCUCACUAAUAUUUUCGUAAUAAACUAGUAUGUAUGUAUGUACAUACUGGUUUCUUAGGAAGAUAAAAGAGAAGACUUU	86	17,4418605	33,7209302	11,627907	36,0465116	29,0697674	69,7674419	1,06896552	1,5	-29,3	-29,1	0,10027	5,01	-34,069767	-1,172
>spi_animal-miR-574-3	GGAUGAGUGAGUGUGUGGGUAAGUGGUACUAUGAGUGAGUGUUACUGCUAAAUACACACACACACACACACACACACAC	82	24,3902439	32,9268293	20,7317073	20,7317073	45,1219512	53,6585366	0,62962963	1,17647059	-24	-17,4	0,0195412	31,93	-29,268293	-0,6486486
>spi_animal-miR-2970	CUGUGGCCAACGUGUUGGCUGACAGUCAACUGACAGUCAGCUGACAGUCAUUUAACAGUCAUUUGACAGUCAGCAGUUGGCCAAUG	87	25,2873563	25,2873563	22,9885057	25,2873563	48,2758621	50,5747126	1	1,1	-36,4	-34,3	0,1454	24	-41,83908	-0,8666667
>spi_animal-miR-384-1	AGAUCUAAAAACUAGCUUGCCUGAAAUUCCUAGAAAUUUUUAGGAAUUUCUAGGAGUGUUUAAGAAUU	69	17,3913043	34,7826087	11,5942029	34,7826087	28,9855072	69,5652174	1	1,5	-18,9	-17,7	0,111537	10,12	-27,391304	-0,945

>spi_animal-miR-1683	UGCCUGUGACCAAGUCGCAAACGG UGCUACUUUUGGAUCUCAUUGUUU GAAAAAGUGGCACAAGUUUUCUGG GACAGUCACAGCGA	87	25,2873563	25,2873563	20,6896552	27,5862069	45,9770115	52,8735632	1,09090909	1,22222222	-31,6	-31,1	0,064732	7,74	-36,321839	-0,79
>spi_animal-miR-6545	AGACAUGCCCAGCUGGAGCUGAUU UUUACCCACACAGUGGCCCAGUUAC UGGUCAGGGUGGUGAAGUCCGAAC CCGCUGGGCUGAGA	88	30,6818182	21,5909091	26,1363636	20,4545455	56,8181818	42,0454545	0,94736842	1,17391304	-37,3	-34,4	0,132232	5,79	-42,386364	-0,746
>spi_animal-miR-748	UUGAUUCGCUUCAUAUCGCCCACCA GUGCUGCCAGCUAUUUAAUAAGAU UCCUUAUUAUAUUGCUACCAGUGC UCGUGGGCCACAUGAAGGGAAUUC U	99	19,1919192	23,2323232	24,2424242	32,3232323	43,4343434	55,5555556	1,39130435	0,79166667	-43,4	-43,4	0,252647	2,48	-43,838384	-1,0093023
>spi_animal-miR-2b	UCACUAUCAGCUGACCAUUUUUCU CAUCAUUGUUGGUUGCUAUGGAUU CAGAAGUAGACAACUUUGCCAAUGC UGACUUAACAAUGUCUGCUGAGAG AAA	101	18,8118812	27,7227723	19,8019802	32,6732673	38,6138614	60,3960396	1,17857143	0,95	-23,4	-23	0,0482808	11,35	-23,168317	-0,6
>spi_animal-miR-10922	UGUCGCAACAAUGGUCCUCUAUGA GCCAACCUUUGAUGUGCAGCAUAG AGGAUACUUUGAAGCGUGG	68	26,4705882	25	20,5882353	26,4705882	47,0588235	51,4705882	1,05882353	1,28571429	-21	-20,9	0,49453	2,5	-30,882353	-0,65625
>spi_animal-miR-9058b	AUCGAGAGAUCAAGAUGUGAGCCU GUAGGGUGUCAUUUUGCUGUGUU CGUAGGCAAAAUCACUUUACUCUCA GGAUGUACUUGUCUUACCUCUCAG G	98	24,4897959	22,4489796	19,3877551	32,6530612	43,877551	55,1020408	1,45454545	1,26315789	-27,2	-23,1	0,0776206	12,68	-27,755102	-0,6325581
>spi_animal-miR-9627	ACACAGUUUUGACAUUGCUUCCGG GACACACACACACACACAGUAAA AACUUUGAAAGAUGUAACCAGGAG CAGUGUACGAACGAACUGGCA	95	20	36,8421053	24,2105263	17,8947368	44,2105263	54,7368421	0,48571429	0,82608696	-20,5	-18,24	0,0137556	13,94	-21,578947	-0,4880952
>spi_animal-miR-1648	CCUAGACUUUCUCAAAGUCGUUCG CUUGGUUUUCUGUUAUCGCUCGCU CGGCUCGGCUCGGCUCGCGCUCAAA AGCGCGACUUGUGAGCAAGUCUUG G	99	26,2626263	14,1414141	28,2828283	30,3030303	54,5454545	44,4444444	2,14285714	0,92857143	-32,6	-32,6	0,0660995	20,17	-32,929293	-0,6037037
>spi_animal-miR-5394	AAAGAAAAGCUAACAAGAUCCUUCU CGUCCAAUAUCUUAGUAGAGAGAA UUGGACAGAGCUAAAUGUUUUGCU AUCUUUUCAUA	85	16,4705882	35,2941176	16,4705882	30,5882353	32,9411765	65,8823529	0,86666667	1	-22,7	-22,7	0,181993	7,86	-26,705882	-0,8107143
>spi_animal-miR-4561	UUGACCAUAGGGAUAAAAUGAUUG UCAAGUUUGGUGAUGAUUUUGUC GAAUUCAUUUUGCUCACCUGAGGU UGG	75	25,3333333	24	12	37,3333333	37,3333333	61,3333333	1,55555556	2,11111111	-20	-19,7	0,0890429	5,86	-26,666667	-0,7142857
>spi_animal-miR-10454g	GUAACGAAAAUGGCAGAUUUGACG AAAUUGUGUCAGAAUCGUCACUUU UGACAAAAUUUCCACAGGUUGACA AAUUUCGUCAA	84	19,047619	34,5238095	16,6666667	28,5714286	35,7142857	63,0952381	0,82758621	1,14285714	-20,5	-20,3	0,202746	11,06	-24,404762	-0,6833333
>spi_animal-miR-7843	GCCUCGAUGUCUUUCUGACACCAG AGUCGAUGAAGCCUUCUCUGCUCA UGGGCAAAGUGGACAUCGAUUU	71	23,943662	21,1267606	25,3521127	28,1690141	49,2957746	49,2957746	1,33333333	0,94444444	-23,9	-23,7	0,276361	8,69	-33,661972	-0,6828571
>spi_animal-miR-242	AAGUAUAUCUCUUUAAAAGUAUUU GAUCGUUACGAUGCAAAGAGCUAU GAUGGUCGAAAACUCUAAGAGAUU UAUAA	78	17,9487179	37,1794872	11,5384615	32,0512821	29,4871795	69,2307692	0,86206897	1,55555556	-21	-21	0,411314	2,64	-26,923077	-0,9130435
>spi_animal-miR-9921	UCAAAUUUUCUUUACUUGUAUUCA GGGUUGAUAUGCCACUCAUCGUUG GCUUCUCAUGACAUGGAAUAUGGC CUGUACAAGAAAAAAAAAUUAGA	96	17,7083333	31,25	16,6666667	33,3333333	34,375	64,5833333	1,06666667	1,0625	-18,6	-15,2	0,00629412	19,72	-19,375	-0,5636364
>spi_animal-miR-520a	AUAUAACAAACCCUUUCAUAUAUAC GCUUCCAGAGGGAAGUAUUGAGCG GGUUUAUGGUUUGCAUAUUAUAA	98	20,4081633	28,5714286	13,2653061	36,7346939	33,6734694	65,3061224	1,28571429	1,53846154	-23,5	-22,9	0,0954062	8,07	-23,979592	-0,7121212

	ACGUUAUUUCAGGUGUUUGUUAG AU															
>spi_animal-miR-5597	UACACCUUACUAGCUUUGGAAAUA AGAUUGUUUACUCCUAACAUUAAU AUGUUAGGUGUAAACAAUCUUAUU UCCAAAGCUGGUAUGGUUUG	93	16,1290323	30,1075269	15,0537634	37,6344086	31,1827957	67,7419355	1,25	1,07142857	-58,2	-58,2	0,628791	0,98	-62,580645	-2,0068966
>spi_animal-miR-6942-2	ACCUCAUAUAGACCUUCCCCUUCCC CCUCUACAAUGCAUGUCAAUCAGGA AAUACAAUGAACAUUGUUUAGGAG GAGGGGAACAGGGUAUUAUGAUUU	99	19,1919192	30,3030303	22,2222222	27,2727273	41,4141414	57,5757576	0,9	0,86363636	-30,9	-30,4	0,0511758	14,15	-31,212121	-0,7536585
>spi_animal-miR-4211	UACAGAAAAGAUUGCUUUACUUAA AAUUGAAUGAUGCCUAAACACUUC AGUUGGAGUAAAGGAAUCGCUUCU AAA	76	17,1052632	38,1578947	14,4736842	28,9473684	31,5789474	67,1052632	0,75862069	1,18181818	-21,6	-20,5	0,264856	2,94	-28,421053	-0,9
>spi_animal-miR-143-1	CAGGAGGCAGUUAGAAAUAAAUUC AGACCUGUAUGGGAGUUGAACCUA UGAUCUCUGUGAUACAGGUGCAGU GCUUUACCAACUGAGCUCACA	94	24,4680851	29,787234	19,1489362	25,5319149	43,6170213	55,3191489	0,85714286	1,27777778	-21,1	-19	0,0579392	9,29	-22,446809	-0,5146341
>spi_animal-miR-6942-1	CUUCCCCUUCCCCUUCCCCAUCUAC AAUGCAUGUCAAUCAGGAAAUACA AUGAACAUUGUUUAGGAGGAGGGG AACAGGGUAU	84	20,2380952	28,5714286	25	25	45,2380952	53,5714286	0,875	0,80952381	-26,5	-26,5	0,0949635	10,44	-31,547619	-0,6973684
>spi_animal-miR-139	UCAUUGAUGUCUACAGUGCAUGUG UGCCCUUGGAAACCUGGGGCACAAA UGCACUUAAAGUCAUUAACCA	71	21,1267606	28,1690141	22,5352113	26,7605634	43,6619718	54,9295775	0,95	0,9375	-31,6	-31,6	0,338564	2,16	-44,507042	-1,0193548
>spi_animal-miR-11926	GUUGGACUGGCAUGCGUGAAAAUG UGCCCGCUAGGCUCUGAGGACCUG UGGAAACGAAGGGGGGAUGCAUGU UCUCAUGCAUGCCACUCCGCC	94	32,9787234	20,212766	24,4680851	21,2765957	57,4468085	41,4893617	1,05263158	1,34782609	-39	-30,1	0,0544992	14,37	-41,489362	-0,7222222
>spi_animal-miR-7957b	AAAUUUGUCCUUGGUCAUUACCUG UUCCUCGAAGCUCACAGCUCGUAU UUCGGAACGGAUAACGUCCGCGGA UAAAAAU	80	20	26,25	23,75	28,75	43,75	55	1,0952381	0,84210526	-24,2	-22,7	0,154372	4,61	-30,25	-0,6914286
>spi_animal-miR-1231	GAAAAAUUUGGUUUUAGUUCGGCA AUCUGGGCAGAGCUGCAACUGCAAC UUUCUGCCUGCUGAUAAUGCACAA UGAAACAAACUUGCA	89	21,3483146	30,3370787	20,2247191	26,9662921	41,5730337	57,3033708	0,88888889	1,05555556	-21,7	-21,7	0,0815901	15	-24,382022	-0,5864865
>spi_animal-miR-2e	CUUAAAGCCUAAUGGCUCCAAUAUA AAAGUCACAGAAGAAAACAAAGAGG AAUACUUGUCGUAAGUGUGAUUAU UUUAUCACAUUCAUUUGGACUUUG UA	101	16,8316832	36,6336634	14,8514851	30,6930693	31,6831683	67,3267327	0,83783784	1,13333333	-21,4	-17,5	0,0490711	11,96	-21,188119	-0,66875
>spi_animal-miR-8207	UGCAGAAAGGGGGCCACAUCAGCU GUUCAUGGCUGUUAACGUGGUGGC AGUUGUUUUAUCAUCCUUUGCGUG AUUUGUCCUCUUUUCUCUG	92	26,0869565	15,2173913	20,6521739	36,9565217	46,7391304	52,173913	2,42857143	1,26315789	-24,7	-23,4	0,0268345	25,4	-26,847826	-0,5744186
>spi_animal-miR-982	UUGAACGAGUUGAAGUAUCUUUGC GCAAUCCUGGACAAAUAUGACGGG AUCAUUCUCGUUUUUGUUUGCUGC AUAAUAUAUACAGAAUCGUUUUC	96	19,7916667	26,0416667	16,6666667	36,4583333	36,4583333	62,5	1,4	1,1875	-21,5	-21,3	0,0368533	12,17	-22,395833	-0,6142857
>spi_animal-miR-750	AAUUGAGGGUAAAAAAUUUACAAU AGCGCCUCACAGAAGUUGGAAGUG AGGAUGCUAAACUUGAAAUUUGCG UUUACUUCAUGA	85	22,3529412	35,2941176	12,9411765	28,2352941	35,2941176	63,5294118	0,8	1,72727273	-21,4	-20,9	0,16055	7,63	-25,176471	-0,7133333
>spi_animal-miR-9341-3	GUUAAAUAGAUCGCUUCUCGGCCU UUUGGCUAAGAUCAAGUGUCUUAG CCGCAAGCAAGAAUAGUCCUUAUU UUUG	77	20,7792208	24,6753247	19,4805195	33,7662338	40,2597403	58,4415584	1,36842105	1,06666667	-18,7	-12,2	0,0494446	16,23	-24,285714	-0,6032258
>spi_animal-miR-9341-2	AAAAAAACUGCACUGAUGAGGCCCA GAAGGCCGAAACAGUGAUCGCUUC	81	25,9259259	27,1604938	22,2222222	23,4567901	48,1481481	50,617284	0,86363636	1,16666667	-31,2	-31,2	0,107016	6,9	-38,518519	-0,8

	UCGGCCUUUUGGCUAGAUCGGAUG UUUUCAG															
>spi_animal-miR-9415-2	UUACCACGGCAAGCGUAUGCCUGAA AGGCAUACUUACCUGACGCGGGAU AUUUUCCAUUGCUGAGGUGAAGUG UCCUUCCGAAACCUUUCGUGGGCA	98	25,5102041	22,4489796	24,4897959	26,5306122	50	48,9795918	1,18181818	1,04166667	-32,4	-30,6	0,0745331	14,55	-33,061224	-0,6612245
>spi_animal-miR-8335-3	GUGGCCAAGUAAAUAACAUGACACA UCUAACAUAUUAAUUCUUCUCUUG AAGACCCUUAUGUUGUUGUUGUUG UUUUUUUUUGUGCUGC	90	16,6666667	23,3333333	16,6666667	42,2222222	33,3333333	65,5555556	1,80952381	1	-22,3	-16,7	0,118127	16,1	-24,777778	-0,7433333
>spi_animal-miR-8431	UGGUCCACUGAAUAAUACAGAUUA ACAGGGAUUCCUUUAUUCAACCAU UGAGGAGGUUGGUAAUUUGAUGU UAUUACUGAUGGAUCU	88	21,5909091	28,4090909	13,6363636	35,2272727	35,2272727	63,6363636	1,24	1,58333333	-22,5	-21,8	0,0599442	10,7	-25,568182	-0,7258065
>spi_animal-miR-2944a	UAAUCCAUCCAUAUCACAGUAGUU GUAUACAGUAAAUAGACUCUUGUA UGGUAUACUAGAUAUUGCUAUAAU AUAUAUACUGUGCUAUGUAGUGUG AUAU	101	15,8415842	32,6732673	12,8712871	37,6237624	28,7128713	70,2970297	1,15151515	1,23076923	-22,6	-22,6	0,0410724	11,96	-22,376238	-0,7793103
>spi_animal-miR-2542	AAGUUGUCCGGUCAGACCUAUUUU UGCUCGGACACAACCAGAUAUCCUA UUUUGUCCGGCCAACAAAGGAGUU CACCGGACAAAAC	87	19,5402299	28,7356322	26,4367816	24,137931	45,9770115	52,8735632	0,84	0,73913043	-27,5	-16,3	0,0346273	28,95	-31,609195	-0,6875
>spi_animal-miR-9611	AUCUUUAAAGUGGUUUAAAUGUU GAUCUGAUGAUGUAACAGUACAGC UGUGCCAUGACGUCACAUUACAGCC AUUUUGAAUUG	84	20,2380952	28,5714286	15,4761905	34,5238095	35,7142857	63,0952381	1,20833333	1,30769231	-23,3	-19,3	0,0532498	10,95	-27,738095	-0,7766667
>spi_animal-miR-3832	AAGUUUCAUCAUUUAACAUUUCCC CCUCUAAUUAUACAGGAAUGACCG UCAGUGAAUUAAUGUUGCGCUUGG GGGCGAAAUGAUUCUGUGAAAAUC	97	19,5876289	28,8659794	18,556701	31,9587629	38,1443299	60,8247423	1,10714286	1,05555556	-18,8	-14,6	0,0174645	20,76	-19,381443	-0,5081081
>spi_animal-miR-3076	UGUUUUUUGUCCGCAGGCGUCACU CCACGUAGCAUGGCUGGUACCCCGC ACAGGGGAAGCUCAGCCACUCCUGG GCGUGCGUCUGUGAGAGAUAAACU G	100	30	18	28	23	58	41	1,27777778	1,07142857	-43,1	-41,4	0,0469261	13,3	-43,1	-0,7431034
>spi_animal-miR-5317a	ACUAACAAAUCAGUGACCAGACAGC ACGGGAGACUGGAAACUAUUUACC AAAGUUUUUCUUGUCUCUGUGUAU UUUGACUGAUUUUUCCA	91	17,5824176	28,5714286	19,7802198	32,967033	37,3626374	61,5384615	1,15384615	0,88888889	-25,5	-23,8	0,0612939	10	-28,021978	-0,75
>spi_animal-miR-8806	CAAGAAUUUUUGGGUAUGGGUGCU UCAGCCCCAUGAACAUGGUGAGAU UUGACAGGACAUGCCAUCUUUUUC UCUGUAGUAACCCACCAAAUAUUCC CA	100	20	26	23	30	43	56	1,15384615	0,86956522	-23,2	-15,7	0,0251328	20,63	-23,2	-0,5395349
>spi_animal-miR-2037	AUCCAUUAAACCAACAUUUACAAAG UUAGAGUACAAAUAAGAGGACCUG AGUGUCCUGAGUUGUGAUUGGAGA CUUUGAUAAAAUGGAAUAAUGAGA	98	21,4285714	38,7755102	12,244898	26,5306122	33,6734694	65,3061224	0,68421053	1,75	-21,9	-21,2	0,0882731	6,06	-22,346939	-0,6636364
>spi_animal-miR-2278	CCGUUGGUGGAUAACCCAAACAAAG ACGACAUUGGUCGUUGGGGAGAGC AGUGUGUGUUUGAGUUUCUCCAAG AG	76	31,5789474	25	17,1052632	25	48,6842105	50	1	1,84615385	-20,2	-17,7	0,0659297	10,77	-26,578947	-0,5459459
>spi_animal-miR-99b	UUUGCAUGAUAGCAUGAAUUGCCA AAGCUCGUGUCUGUGGUAUCUGCC UCAACCUUCUGCUUUGAUAAUUCA UGACGUCAUGCUCA	87	19,5402299	21,8390805	22,9885057	34,4827586	42,5287356	56,3218391	1,57894737	0,85	-32,7	-32,5	0,370644	1,82	-37,586207	-0,8837838
>spi_animal-miR-12361	UGAGGGAGGGGGGGGACGAAGGG UUUUUGUUGUGUCACGAUUUAAU UUACCUGAUCCCCCAUAAGGCUCUA	101	26,7326733	18,8118812	21,7821782	31,6831683	48,5148515	50,4950495	1,68421053	1,22727273	-39,1	-38,7	0,0959971	11,28	-38,712871	-0,7979592

	UGAUAAUCCUAUGUUCCUCCUCUCCCUGG															
>spi_animal-miR-9341-1	GUUAAAUAGAUCGCUUCUCGGCCUUUUGGCUAAGAUAAAGUGUCUUAGCCGCAAGCCAGAAUAGUCCUAUUUUGU	76	21,0526316	25	19,7368421	32,8947368	40,7894737	57,8947368	1,31578947	1,06666667	-25,8	-24,3	0,0462184	8,11	-33,947368	-0,8322581
>spi_animal-miR-2c	AUGGUAAGAACAGAGUGAAUGUGAUCAACUAGAAUUUUAAUCACAGCCAGCUUUGAUUACUUUGUAUUUUCAAAGUCAUACGUUGCUAUUCUUACUUA	99	16,1616162	31,3131313	15,1515152	36,3636364	31,3131313	67,6767677	1,16129032	1,06666667	-21	-20,1	0,0563083	6,59	-21,212121	-0,6774194
>spi_animal-miR-81a-2	UAAGUGAGAUCAUUUUGAAAUGAGUUCCACAAGAGGGGACCAAGGGAGGACCCUUGAGGACAACCUCUUAUUGUAACUUUCCACUGACUCGUCACAGG	99	24,2424242	29,2929293	21,2121212	24,2424242	45,4545455	53,5353535	0,82758621	1,14285714	-26,8	-22,9	0,0693404	14,56	-27,070707	-0,5955556
>spi_animal-miR-932	AGACGUGCAAGCAAUGUGGAAACGACUUUUGUCAUGUAAUACCACAUGAUCUGGUAUUUGAACACAAAGAGAGGUUCUACUUCCCCUUGAACGGUG	97	22,6804124	29,8969072	19,5876289	26,8041237	42,2680412	56,7010309	0,89655172	1,15789474	-22,2	-20,6	0,0218394	9,31	-22,886598	-0,5414634
>spi_animal-miR-2-3	CAAUCUUAUCAGAGUUGGCGAAGGGCUGAUUGCCCCUACUUGUCAAAGUUUUUUCAUCCUUUGCAAACUUAAAAGAGAA	80	18,75	28,75	20	31,25	38,75	60	1,08695652	0,9375	-19,5	-19,5	0,284101	4,72	-24,375	-0,6290323
>spi_animal-miR-9103	UUCCCAAGUCUUAUCUGUGAGCCAGUGAUUCUUUAUUUUGAAUUAGGUUAUACGCUAAAAUGUCGGAAAGAACAUUGCAGAGCUCAGUCUUGGCAC	97	20,6185567	26,8041237	18,556701	32,9896907	39,1752577	59,7938144	1,23076923	1,11111111	-20,2	-12,4	0,0353584	24,64	-20,824742	-0,5315789
>spi_animal-miR-249	AGCUUCUGAUAAGCUUUGAUUCUGUUCACAGGAUUUUUGAGUUACAAGCAUUUCUGUGAUCAAUUCAAAACUCAGUUAGAACAU	85	16,4705882	29,4117647	16,4705882	36,4705882	32,9411765	65,8823529	1,24	1	-19,4	-19,4	0,114289	5,42	-22,823529	-0,6928571
>spi_animal-miR-30e	UGCAAAACACUUCCUUUAUUUCAGUCAGAUGUUUGAAAUCUACGUCAAGCAAAUGACGUUAAAUGGUGGUAAAUGUUUUACU	83	16,8674699	31,3253012	15,6626506	34,939759	32,5301205	66,2650602	1,11538462	1,07692308	-19,9	-19,9	0,26425	3,08	-23,975904	-0,737037
>spi_animal-miR-616	AGGAAUAAGUUGUCAGUCUUCACUGGAGGAUUUUGGUGGCCAACCAUUGAAAAUACUCUCUAGUACAGUUUAUAAUUUAUUUUA	85	18,8235294	29,4117647	14,1176471	36,4705882	32,9411765	65,8823529	1,24	1,33333333	-22,5	-19,5	0,0294833	8,56	-26,470588	-0,8035714
>spi_animal-miR-2173	UCAGAUUUAUGCGCGUUUUUACAAUCUAUGUACAUGUACAUAUAAGUUGAUUGUCUAAGCCGCAAAAAUCCCU	74	14,8648649	29,7297297	18,9189189	35,1351351	33,7837838	64,8648649	1,18181818	0,78571429	-20,5	-20,5	0,596224	1,94	-27,702703	-0,82
>spi_animal-miR-9415-1	GGUGAGGGAGAGUUUUACCACGGCAAGCGUAUGCCUGAAAGGCAUACUUACCUGACGCGGGAUUUUUCCUUUGCUGUGGUGAAGUGUCCAUCCGA	96	30,2083333	20,8333333	20,8333333	27,0833333	51,0416667	47,9166667	1,3	1,45	-39,1	-37,5	0,0796196	9,38	-40,729167	-0,7979592
>spi_animal-miR-81a-1	UAAGUGAGAUCAUUUUGAAAUGAAUUCCACAAGAGGGGACCCAAGGAUGACCCUUGAAGGCAGCCUCUUAUUGUAUCUUUCAACUGACUGGUCACAGG	99	23,2323232	29,2929293	20,2020202	26,2626263	43,4343434	55,5555556	0,89655172	1,15	-23	-14,8	0,0445414	25,35	-23,232323	-0,5348837
>spi_animal-miR-7187	UGUUCGUAAUAAAAUGAAUGUAAUAAAUAGAUCGUGUUAUCGUCUGGAGAUGAAUAACAAGCUCCGUUAUAAUCUCCUUUACUCCGAUCU	91	16,4835165	31,8681319	16,4835165	34,0659341	32,967033	65,9340659	1,06896552	1	-18,7	-18,3	0,209631	3,51	-20,549451	-0,6233333
>spi_animal-miR-7451	CAGACUGAAAUGUUCUGAACAGUCCAUUAAGAAGCAUUUGCUUCUUCUUAUCCCAAGACCCCAUAGCCAUUUG	101	14,8514851	26,7326733	25,7425743	31,6831683	40,5940594	58,4158416	1,18518519	0,57692308	-20,8	-19,7	0,0339806	11,64	-20,594059	-0,5073171

	GACUAUUUUGAAGCACUCUUCUGUCCA															
>spi_animal-miR-9612	UUGGUUAAUGAAGGAUGCGGAACGGUUCAAGUCCAAGAAAUAAUCUCUGGCUUAACUUCUGCUCUUCUAACUGG	75	22,6666667	26,6666667	18,6666667	30,6666667	41,3333333	57,3333333	1,15	1,21428571	-19,8	-19,7	0,0489716	8,53	-26,4	-0,6387097
>spi_animal-miR-4445	AGCCUCACGGCAAAAAGAGAAAGCCAGCACGGCAAAAGAAACAUCUUCGAUAACUCGUCCAAACCCCUGUGCUUUCUUUUAUGCCGUGAGAAC	94	19,1489362	32,9787234	27,6595745	19,1489362	46,8085106	52,1276596	0,58064516	0,69230769	-32,1	-30,2	0,10957	11,31	-34,148936	-0,7295455
>spi_animal-miR-10692-1	CGGAAGCUUGCCUGGUGUCACUCUUAUUUGUCGGAUCGGAAGCAAAUUGUCCAUGUAAAUGGGAGUGAGUCAAGCGAAGCUUUGA	86	29,0697674	24,4186047	17,4418605	27,9069767	46,5116279	52,3255814	1,14285714	1,66666667	-28,6	-28	0,05058	8,32	-33,255814	-0,715
>spi_animal-miR-35h	AAAUUUUGUUUGUGUACUUACGAAAAAAAGGAUUUCACCGUCACCGGGUGAAAAAUUUAACCUUUUAUGUCUUAAACUCAGAAACAGAAAGAG	94	17,0212766	37,2340426	14,893617	29,787234	31,9148936	67,0212766	0,8	1,14285714	-19,6	-19,6	0,13708	5,28	-20,851064	-0,6533333
>spi_vegetal-miR9749	UUCUUGGGAUACUCGUCUCUGCCACCUUGUAUUUUCUUUCACGUUUACCGAUGAAAGAAGUACAAGUGGUAGGGAGGGGGUAUCACCAAUUU	92	23,9130435	22,826087	18,4782609	33,6956522	42,3913043	56,5217391	1,47619048	1,29411765	-48,6	-46,7	0,0646181	5,88	-52,826087	-1,2461538
>spi_vegetal-miR6110	UAAAUCCUAUGAUUAAUCCAUUUCUGGAGUCUACUGGUGGUAACUGCCAGUAGGUUGUAACAAUUGAAGAUGUACUUGCAGUCACAGUGAAAUUGCUAGGAGCUUGUGAUGGAACUGCAAUUGGAAAAAUUAGUUUUACCAUUUCAUUUGAGACCUGCAUUCAACAGUUAACAGCCCAGCAUUUCCUCACUUACCUCAAGACUAACACCACAUGCAUUAACUAGGAUAGU	231	18,6147186	30,7359307	19,9134199	30,3030303	38,5281385	61,038961	0,98591549	0,93478261	-52,1	-46,1	0,00060429	41,77	-22,554113	-0,5853933
>spi_vegetal-miR9476	AUUAUUUGAAGAAUAUUUGGAGAACCGUCAUACUUCUUUUCAGAAACAUUGUGUAGAGGGGUAUGAGGAUAUUCUACAUCUGGUGGCUCAGGCGUUAUAAUCCCUGCAUCUUUUAAAGCCUUUAUCUUUUUUACUUCUGCCUUUUGUGCAAUUUCAUGAAAAGCAGCAAUUUUCAAAAUGUCAAAUUUUGACACGUCUAAUUUUUCUGCAAAUGCU	217	17,0506912	27,1889401	17,0506912	38,2488479	34,1013825	65,437788	1,40677966	1	-46,9	-43,5	0,00141027	29,92	-21,612903	-0,6337838
>spi_vegetal-miR5234	UCGAAAACGUAAUCUGAACUGCUCAUAGUUGUAUUUUUGUAUUUUUUUGUUGUGGAUGGCACAACUUGCGGAUAAUAAAGCCUUUACAAGGGAGCAAUGGCAGUUUUUACAGAGCGUAAGGCUCACUCUUUUGGAUUUAUCCCGACGAUUGCACCAAGAUGUCAGCGAAUAUACAGCUGAUUACGCUUUGUU	193	21,761658	26,4248705	17,6165803	33,6787565	39,3782383	60,1036269	1,2745098	1,23529412	-48,9	-44,1	0,0201607	32,85	-25,336788	-0,6434211
>spi_vegetal-miR7836	GUCUAGAGUGUCUGUGGUAAAGAAAAAUCAGUAUUUUCCCAAGUAACUCAAGCUGUGAUAAAUCCUGCUUGCACUUGAGAAUGCACCCGUAGUAAAAUGAUCCUAAUAGGUGCCCUGGGUGGGAGGUGUGGUGGCCUGAUGGAUAGUGCGCUUGACUCCAGAUCAAGUGGUCUGGGUUUGAGCCCUGGAUGGGGACAUUGUGUUGUGUUCUUAGGCAAGACACUUUACUC	231	28,5714286	23,8095238	18,1818182	29,004329	46,7532468	52,8138528	1,21818182	1,57142857	-68,2	-43,1	0,00101767	75,98	-29,52381	-0,6314815

>spi_vegetal-miR6450a	AAAAAUUCUCUCUGUCUUUCUCUG UCCUUUGUCAGGAAUCCAGUUAAU UAACAUAUUAAUCAAUCAGUCGGA CUGUUUACUUCUUAGAAGUAAGUA CUCACGAUAGUAUCCAAAACACAUG AGAAUUCUUAUACAAGCGACAGAAC AAGGAGAGAAAAAAUUAAC	166	14,4578313	36,746988	18,6746988	29,5180723	33,1325301	66,2650602	0,80327869	0,77419355	-35,7	-30,4	0,00375836	26,75	-21,506024	-0,6490909
>spi_vegetal-miR827	AUAAAUCAAGUAAAUAAAAAGUAC UGCAAAGUGAAAAGUGCUUAUCUC UUGAGGUAUUUUGCUUUCCUAAAU UUAGCCUGUAAGGUUAUAGUUUUA CAUGAGCAGUUGUACCAACGUCAAC GUCAUGGUUUAUCUGAUCUGUCGU GGAGGGAACAUCAAGAAACACGUC UUUUUAAUUUUGCAGUAGCUUCUU CAAGUCCUUGCAUUGAC	211	18,957346	29,8578199	16,5876777	34,1232227	35,5450237	63,9810427	1,14285714	1,14285714	-51,2	-46,6	0,00145806	30,59	-24,265403	-0,6826667
>spi_vegetal-miR169q-2	CAGCACUGCACUGAUGAGGCCCAGA AGGCCGAAACAGUGCAAAGUCGGU UAAGUAGAUCGCUUCUCGGCCUUU UGGCUAAGAUCAAGUGUCUUAGCC GCAAGCCAGAAUAGUCCUUUUUUU GUUCGUUAGUCAAGUUUUAUUCAC AGGCUUUUUCUCUACAAGUUUUUA CACGCGUUUCAAGCCUUCUAAGAUC AUAGAGGUAGUGAGU	210	22,3809524	24,7619048	21,4285714	30,952381	43,8095238	55,7142857	1,25	1,04444444	-56,5	-37,8	0,0010081	60,87	-26,904762	-0,6141304
>spi_vegetal-miR9568	UGACCGGAUAGCAUAACAUUGUAA GAGAUCUUUAAGAGCUCUUGCAUU GCUGUGCUGUCCGGGAG	66	27,2727273	24,2424242	18,1818182	28,7878788	45,4545455	53,030303	1,1875	1,5	-35,6	-35,6	0,454354	1,38	-53,939394	-1,1866667
>spi_vegetal-miR1075	ACGCACUGUCCUUGACUUCUGUUU GUUAUUUUCCUUUUUGAAUUAACA AAAAAAUCUAGGAAUUAAAAGGCA UCCUUAGAGGUUUCAUUUAUAGUU UCUAAUGUCAAUGUAAAUUGGAAU UUGCAGAGAUUGGGGUGCACAACA GCAUGGAGAUGCAAAAGCAAGAACA CAUAGAUGUUGCAGUGGACAGUGA GA	196	21,4285714	32,6530612	14,2857143	31,122449	35,7142857	63,7755102	0,953125	1,5	-46,9	-29,7	0,00505137	46,58	-23,928571	-0,67
>spi_vegetal-miR5062b	GAAAACAGUCACAGAAGGUUUCAG CGGUUCACUUGAACCCGUAGAUCC GAACUUGUGGGAAUUUUUCACCAC AGGUUCGUAUUUAUGGUCCACGUG UACUGCAAUGAAGUAAACCUUUCU UCACUUUCAA	131	19,8473282	27,480916	22,1374046	29,7709924	41,9847328	57,2519084	1,08333333	0,89655172	-45,6	-41,6	0,00805523	12,56	-34,80916	-0,8290909
>spi_vegetal-miR5747	AUAUUGUUCCACAAAACUACUGUC GUUGGAUAAAAAGAAUAUUUAUAC AUAUCAUUAUUCACUUUCAAUUGU UUGAAAGGACGACAGUGGAGCUCU UGAUGGUCUUUCAUUAGGUGUGAC AUCAGAUGGGAGUGAUAUGCCAAC GUGGCCCAUAUAGAUUUUAUAGAA CAUAGUGCCUUGUGAAAGAAGUC	192	20,8333333	31,25	15,1041667	32,2916667	35,9375	63,5416667	1,03333333	1,37931034	-45,8	-41,6	0,0021724	29,66	-23,854167	-0,6637681
>spi_vegetal-miR6187	GGGAGUCCGACAGGUCCCGGCAU CCUUUCCAUCCUGGGCAUCCGGGG GCUCCUGGGGGACCAGAACAUCCGG AUUGUCCGGGUGGUCCCUGAGGUC CGGCGACCUGUUGAACUGGU	118	35,5932203	13,559322	29,6610169	20,3389831	65,2542373	33,8983051	1,5	1,2	-64	-64	0,13025	6,55	-54,237288	-0,8311688
>spi_vegetal-miR7120a	CUCCCUACUGAAGAAGGGAGGUGG AUCACCCUGUUUGUCUGUGGGUCU GUCUGUCAGUCUGUCAGUCUCCAG AUCUGUCAGUCUGUUUGGGGUCU GUCUGUAGAUGUCUGUCUGUCUGU UAGUUUGUUGUAUUGUCUGUCUG	289	24,567474	19,0311419	20,0692042	35,9861592	44,6366782	55,017301	1,89090909	1,22413793	-81	-32,81	7,10E-05	85,89	-28,027682	-0,627907

	UCUGUCUGUCCCUCUUUCAAGCAU AAGGGAAUUUACAAGCAUAAGGGU AUUUACACAUCUCUCCUUUUUUGA AAGGGGUUAUGGCAUAUUUGACUC UCUUGUUUUAUCCAGGAGUGAUCC AAAGCACACCUCUGCGAGUAGGAAA														
>spi_vegetal-miR6142	AUAAACUUCACAGGAUGUUCAAACC AGAAAUAAUCGCCUUCAUGGCGAU UAAUAUCAUCCAUGAUUUAGUAUG GAAAAUUAGUGGUAGAUUCUUCUC GAUCAUUUGUGACCAAUACACAAA UAUCUGGGUGACAUGAAAGUGCUG CUGAAGGAUGACGAUUUUUUGUG UUUUGACGACAUUAAAGUUGAA	191	19,895288	32,460733	15,1832461	31,9371728	35,078534	64,3979058	0,98387097	1,31034483	-48	-41,2	0,0123378	35,55	-25,13089	-0,7164179
>spi_vegetal-miR396a	GAGAGAGAGAGAGAGAGAGAGU GAGACGAUAUCCUCGUAACGUUUG UACUCGGUAAGUGUACAACAGUCU UGUCUCGUAAACCCCGUGUAGGGA CGGGGGUUAACGCUUGUUAGUGCG UCUCACAGCUUUCUUGAACUUUCU CUGCA	150	28,6666667	24,6666667	19,3333333	26,6666667	48	51,3333333	1,08108108	1,48275862	-52,1	-49,7	0,00704863	42,34	-34,733333	-0,7236111
>spi_vegetal-miR9483b	UACCUUUUCUUCAGGCAGAAGACA AACAAGUUUCAUCAUUGUGCUGGU CUUUCGCUGAGUUAAUGCAUGAUA CAUGUUGGUGAACGAAGCCUUGUA AACUUUUAUUUUAUCUUUACCAUA UUUCUGUUCUGCUUCCUCUGAAGG AGAAGAAA	153	18,3006536	26,1437908	18,3006536	36,6013072	36,6013072	62,745098	1,4	1	-33	-28,6	0,00200969	28,26	-21,568627	-0,5892857
>spi_vegetal-miR2275c	UGGGUCUUUGUUUGGUUUACACCC AGCUGAGAGAACUGAAGAAAUUUG AUUUCCUUUAGAAAUUUGAUUUCC UCCAAAAUCACAGUUUUGAACGUU CAGUCGAAAAGCUCAUUUGGUUCA GGGCCGGAUAUGAGAUGUUCGCCU UUCAGCCGGCGCUUAAGCAAACAAA ACAGA	175	21,7142857	28	19,4285714	30,2857143	41,1428571	58,2857143	1,08163265	1,11764706	-47,1	-44,8	0,0171335	13,33	-26,914286	-0,6541667
>spi_vegetal-miR6207	UCUACGACUUCUAAGUCUUGAUUG UUGUUGGCGUCACUGACGUCAUUG UAAUUGGCUGGGCGAGGGUAGUCC UUAUAAGGACUCUCGCCUGUUGUG GUGACUGACGUUUGGACGACCUGA GCGUAAGUCAUCAUCAGAGUCACG UGAGAAGUCGUUAU	159	28,3018868	20,1257862	19,4968553	31,4465409	47,7987421	51,572327	1,5625	1,4516129	-62,5	-62,4	0,00992203	18,05	-39,308176	-0,8223684
>spi_vegetal-miR3947	AACUUGUCAGGUCACGUAAUCGGC UGUCAUGCAUGUUGUUUCCGUAGA CGACAAUGACUGCCACAGUUGAGAA GCUAUGUUUUGAGGUCGAUAGUUC GUUUUAUUCAUGUAAAAAGAUCAU UUAGCAGUACGUUGCAAUACUACG ACACAUAGCUCUUUGAAUCAGUAU AGUAAACCUUGAUUUUGCGAAGUC CGAGCCCGUGGAAAUUUUGUAUUA UUUAUUUAUAUUUUGUGAUAACU UUUUGAUGAUUGCAUGACUGUCAC GGUUGUGUUACACUAAAACCU	286	20,2797203	26,9230769	16,7832168	35,6643357	37,0629371	62,5874126	1,32467532	1,20833333	-63	-60,2	3,94E-05	42,21	-22,027972	-0,5943396
>spi_vegetal-miR7492d	GAUGACAGUUUUGGGCUUAGAAUU UUUGUGGCGACAUUUCCAGGAUUA GAGAUUUUGGAGUGGAUUAUUUU AAGGUGGUGAGGGGGGAGGGAGG GGUCUGACAAAAAGCAAACCCGGGA UAAAUUCCGAAGAUCUUCAACGAU	192	30,2083333	27,6041667	14,5833333	27,0833333	44,7916667	54,6875	0,98113208	2,07142857	-50,6	-40,54	0,00021671	44,18	-26,354167	-0,5883721

	UAGGGGAGGUCGCCAAAUAUUUCC UACAGUCUCCCGAAGAUUGUCGAA															
>spi_vegetal-miR11107c	UGUGCUAUACAAAAUAAUACACUG AAAAUCUGGAUUUUGUAAGGCAAA GUGUGGUUCUUUUCGAUCUCCAAA GGAUAUUCCUCUCUACCGUCGCUG CCUACCGGCGCCAACUGAGGAGCCA GGCUCGGGUGACCUACCGUGAGGG AAUGGUUUUUAGUUUGAAAUAAAC GGUUGUUGAAAGACAUUUCCAAUG UCCUUAUUUUACUAUGCGUU	214	22,4299065	25,7009346	20,0934579	31,3084112	42,5233645	57,0093458	1,21818182	1,11627907	-51,2	-48,5	0,00387019	42,36	-23,925234	-0,5626374
>spi_vegetal-miR9659	GGUAUCUGUCAAGGGACAAUGAUU UUUUCGCCCGACAAAAAAUUGUAA GCCUCCAAACCUAGUUGACGGCAUC UUUGAGGUUUGGUGAAUCUUGCG AAAAUUUUGGUGGGUCAAAAAAAU CGUUCGCACUGACAAUGGU	140	23,5714286	28,5714286	17,8571429	29,2857143	41,4285714	57,8571429	1,025	1,32	-41,4	-38,8	0,01651	12,72	-29,571429	-0,7137931
>spi_vegetal-miR833	AGUCCGUGAAGGAACACAACAGUG GCAUGGCAUUGUAUAUAUUAACUU GAGCCUUAACUACAUUGGUAGUCG AUUCUUUGAGAAAUAAAGCUUUUU GGAUUAAUAAAUUGUGCCAGAAAC UUUUUGACAAGCGCUCACAAGUGC ACAAAUCCUUGCCCGGGUGGCCUCG UCCCCAUGCCCUAGUUUUAGUCUU UACUCGGUCG	204	21,0784314	26,4705882	21,5686275	30,3921569	42,6470588	56,8627451	1,14814815	0,97727273	-48	-29	0,00044273	45,45	-23,529412	-0,5517241
>spi_vegetal-miR1057	CUUUAUUUUAAGCACUGGAAGCAG UGCAUGUCAGAUUAAGCAUAAAAA CCUUUGAGCAUAUUUAGUCUUGCU AGGGAUGAUGGGUGGGUGUGGGU GUGCGUGUAUGGGUGUGCACUUGC AUGUGUGUGCAUGUGCGUGUGUG UGUGGGGGAAGAUGGGGAAAGGAC UGGCAUGGCUUGUUAUUAUAGCUU UCACUGUGUUCUAGCUCUGAGCUA UUGGUCAAAAGUACUACUAACAGU ACAUGUACCUGCAAAAGUGUUCUU AAAUUAUAC	272	29,0441176	23,8970588	13,9705882	32,7205882	43,0147059	56,6176471	1,36923077	2,07894737	-72,2	-35,6	0,00016053	93,51	-26,544118	-0,617094
>spi_vegetal-miR7509	CCACAAAGUCGUUCGCUUGGUUUU CUGUUCUGGUGAAGUAGGACUCGC ACGACCGACGUCGCGCUUUCGCUCG CUAUCGCUCGCUCGGCUCGGCUCG GCUCGGCUCGGCUCGUGCUUCGCG CUCGCGCUACGCGCUCAAAAGCGCU ACUUGUGAGCAAGUCUAACCCCAAA AAUUUUUAAAAUUGAACAGAUUGGA AAGAAUGAAAAGAAAGUGGGCGAC UGUUGAUA	228	26,3157895	21,9298246	26,3157895	25	52,6315789	46,9298246	1,14	1	-82,4	-77	0,0119819	25,42	-36,140351	-0,6866667
>spi_vegetal-miR8704	GGUCAACGCCCUGAAAACAAGAUGU UCGUCGAUCGUGCUCAUUAUUUCU UGCUCUUAAUUCUGCUCCAUGGAU ACGCCAGUGAAUAUCUUGUCUAAU AUUUAAAAGAUUGACCCCGAUUAG GUCAUUUGGGGCAAUUCAGUCAUU UGAGCCGUUUGGAUUAUUUAAGGA AAUUGAGCAAAUCGGGUCAUUUUG AUAGUUCAGGCAGUUGGGU	213	22,5352113	25,3521127	17,8403756	33,8028169	40,3755869	59,1549296	1,33333333	1,26315789	-58,4	-57,4	0,0104287	33,89	-27,41784	-0,6790698
>spi_vegetal-miR7822	AGGCUGACACAACUUUGAAAUUGA ACAAAUAGUUUACUAUCUAGACCU ACCAUUCGCCAGUCCAUAUACACAG UGGCAGAUCCAAGGGAGGGGCACC AGGGGCAUUCCCCCCUUAUUUUGG	292	20,890411	30,8219178	22,260274	25,6849315	43,1506849	56,5068493	0,83333333	0,93846154	-77,1	-55,47	0,00027608	87,63	-26,40411	-0,6119048

	GUAAAAAAAAAUAACUACAGAGGG AAGAAAAGCCGGUAUGUGAACACAC CCAAACAAAAACGGCCCCCCUUGGC UCAUGGUCUGGAUCUACCACUGUU ACCUGUAGUCAGGCAUAUAGGUAC UUGAAUAUGUUUAAUUACUGGAU UUUCAUUUUUUCAGUGGUUCAGAG C														
>spi_vegetal-miR11544	UGAGGUCCUCUGCUCCUUCAGGUG UUCUGUUCUGAGUGGGAUCUGCAG UUUCGGUUUCUAGUCUCUCUUCUU GGAUUGGAGUGGCUGUUACACUUG CUAAGCUGUUGUCACUUUGGGCUA CAACUCCUUCAGGAGGAUUUUCAG GUUCUUCAACAGGUAAAAGACCAA GAGCCUCAUCAUCACCACCAACAUU GGUAUUACCAACAGCAGCAACAGCA GCAGCAGCAGCAGCACCAGC	239	23,0125523	22,5941423	25,5230126	28,4518828	48,5355649	51,0460251	1,25925926	0,90163934	-69,5	-59,7	0,00116813	45,95	-29,079498	-0,5991379
>spi_vegetal-miR1886	UUUUUUUCUGUUCACCCAUCUUCA UUGUUCAAGGUGAGACUUUUAGGG GUCUCCCAAAGAAUUGUAAGUUCU GAUGAGAUUCAUAUCAAGGGAUAG AGUAAAAUUUUGCCCAAGCAGAAU UUGGGAAUGUUCCUGCUCAAAGAC AAGCAGCAACUUCCCUUCAGCCUGC UCAAGUUAAUUAACCUGAUAUCAA AAUGAUAUAAUUAUUGUUGCUAGU UAUGGCAAAGCUCAAGACAUCAGU ACCUCAUCGAUUGAAAUUUAAGCCA GAUGGCUGACCUACCCUUGGAAAU GGAAGUGAGAUGAAAUAAAAGUU	314	19,4267516	31,5286624	18,1528662	30,5732484	37,5796178	62,1019108	0,96969697	1,07017544	-79,6	-73,2	3,21E-05	55,67	-25,350318	-0,6745763
>spi_vegetal-miR8693	UUAAUAAUACAAAUUUUAGAACAU AUGUUCUUAGUUAAGCUUUUGUA GCAGGAUGAAAAUAUCUCUUGAAA GGCUAUAUUUACUGUUUUAAGGU GUCUUCCAGCAGUACUCUUCCAGCC AGAUUACCCUUGUUCUUAUUUCGC UGGAAGUUCAAAUCUUUUCCCUUU GUCAUACAAUGCCUUUAUGCCGGU AUGCAACACUUUUCCUAGCGAAACU GCGGUAUACCAUGGUUUCGAAGGU CAAUAGCCUGUUUAGUUCUAUGAA UUGUGUUAUACU	277	16,967509	25,9927798	18,7725632	37,9061372	35,7400722	63,898917	1,45833333	0,90384615	-66,3	-60,8	0,00037758	38,25	-23,935018	-0,669697
>spi_vegetal-miR7777	GUUAUUUUGUUUAUGGGUACAUU CUACAUCUGAUAAAUUAAUUGGGC ACAUGGAGGGUUGUUCUUGCUUG UUUUCUGUUGUGGAUUCUCUGACA AACACCAUCGCUUCAUUGAUUGAU ACUCUUUUGAUGUCGAUGUUUUUA GUAUUUGCAACAUCUUUAACCUCG UGAAGUACUCCUAUCUGAGUGUGG GGUUGAAGCCAAAUGUCUUUGUCA GUAACAUUGGCGACUCUUACAUGG AGCUGUCCAUUAUUUAUAUGAGUA AGAGUACUGAUGAUAACAAGAUUU C	288	20,8333333	23,9583333	15,9722222	38,8888889	36,8055556	62,8472222	1,62318841	1,30434783	-73,4	-68,9	0,00012074	35,33	-25,486111	-0,6924528
>spi_vegetal-miR11078g	UGAAAACCUGCACCACCUUAUCAGC CAAUUGGAAUUGCUGAACCGAAACC GAUCAUGUUUUGAUUAGUCACACU AUUUCAGGCUUUAAGCCAUCUGCA GUGAUUACUUUCACCUGGAGUUCU GAUUGGCUCCAUUGAUGUUGCUCU	201	21,3930348	23,3830846	21,8905473	32,8358209	43,2835821	56,2189055	1,40425532	0,97727273	-53,7	-49	0,0027804	26,12	-26,716418	-0,6172414

	CUGAUCUGAUUGGCUGCUGAAAUU ACUAUGGUCAGUCAGUUGAGGAGG UUUGCC															
>spi_vegetal-miR5084	UACAGUACAGUGGAGUGCAGCACA GUGCAGUACAAUACAUUACAGUGC AGCACAGUGCAGUAAAAUACAGUAC AGUGCAGUGCAGCACAGUGCAGCU CAGUGCAGUACAGUACAGUGCAGU GCAGCACAGUGCAGUCCAGUGCAGC UCAGUGCAGUACAGUGCAGUACAA UACAGUACAGUACAGUGCAGCACAG UGCAGUGCAGUCCAGUGCAGCUCA G	221	27,1493213	30,7692308	23,5294118	18,0995475	50,678733	48,8687783	0,58823529	1,15384615	-82,3	-56,5	0,0165731	72,88	-37,239819	-0,7348214
>spi_vegetal-miR2590j	AAUCAUUAAGCAUUUUUUACUUAA AAGACAAUUCAUUUGAAGAAUGAC AUCCCAGAAUAAUCAAAUACAUUU UUGAUUCUGUUGUUUUCUCAGAGA GAUAACUUUGUAUGAGCAUGUUUG UACUAGAAUGUGCUCUGUUGUAGC UUCCACACCUGCGGCAUGUUUUUC UGCUGUGGUAAGUAUUGCUGAUAA GAAACAAAGUGCUUGUAAUGGUA	216	18,5185185	29,6296296	14,8148148	36,5740741	33,3333333	66,2037037	1,234375	1,25	-54	-44,3	0,0009668	42,15	-25	-0,75
>spi_vegetal-miR11533b	GCAUGGCAACCAACAACUUAUUAAU CUUUAUAUAAGAUCUUGUGUGACU CCGUUGUUCAUGCAUUCACUUCUG UGAUUGGGAACCUACCUUGGCGGU CAGACUGUCUCGCUGGUAAUUAUA GGUCGUUAAUUCGGAGAACUGAGA GAACUGCCUCUGCCAUAACCUCGUU CCCAGGGUCUCUCAUCUUCCCGCCC UUUCUCGCCAUUCAUCCCAGUUUU CAUUAUUGACACAGAACGUGUGUA AACCAUAGAGGGGUGUUGGGUGCC AAUU	272	20,9558824	22,4264706	24,6323529	31,6176471	45,5882353	54,0441176	1,40983607	0,85074627	-71,4	-40,5	3,47E-05	72,24	-26,25	-0,5758065
>spi_vegetal-miR7701	GCUAAGGAUUAUGUUUGUAAGUG GCCCAUUGCUCCCAGCAGAAUGGCA AGGAUUGAUUUACUGCUGGAAAAU UAUUGAUUAAAUAAACAUCUCUAU AGAGGCUGACCAGACCUUUGGAGU UGCAAUAUUCAGGUGCAUUCCAAA UUUGGGGGCUGCCAUCAUAAAUGA AUGAAUGAUGUUGUUUCCAUCUCC AACCCAGGCAAUGGUGCGGCCCUGU AGGCUAUCAAAAUGUUCCUGGAAC AUUAAAAGAAUGGGAUAUAGACAA UACAGUAAUCUCUUCAA	283	21,9081272	30,7420495	18,3745583	28,6219081	40,2826855	59,3639576	0,93103448	1,19230769	-80	-76,6	0,000194	29,42	-28,268551	-0,7017544
>spi_vegetal-miR7716	UUAUCUCAUGCAAGGGUGAAACAG GACAUUUUUGUUACCAGUAAUUAC AUAUGAUUUUAGUAAGUGAACUGA GUCACCAACACCUUGUUUGUAGCU CAGUUGUUAGAGUACAAUCAAACU GUGGGGAAAAAUACCACAGAGUCA AGCCUUUGCAAUUGACUUUUCUCA GUUCUGUUUGUGGAACAAAAUUCU AAUGUCUUUGUUAAGAAAAUGAGU UCUUUUUACAUGCAUUAGAAUU	239	18,4100418	30,9623431	15,4811715	34,7280335	33,8912134	65,6903766	1,12162162	1,18918919	-59	-52,3	0,00116653	37,47	-24,686192	-0,7283951
>spi_vegetal-miR6218	CCAUCUUAACCCUGAAACAGCUCGU UGUCUCCAGCAACUCGGUCAAGAG GUCUGGGUGAAAUAUUUCCCUUUA AAAGACUUCCGAUGAGUUUCGUGA UCGUGAGGGGGUGGGGGGGGGGG	165	29,0909091	22,4242424	21,2121212	26,6666667	50,3030303	49,0909091	1,18918919	1,37142857	-56,2	-49,2	0,0116889	18,45	-34,060606	-0,6771084

	CUGGGUUAGAGCCACAACAUACCUG GUUUUCUCGGUUAAGAAUC															
>spi_vegetal-miR11178	AAAAAAUGUGAUACGAACAUUAGU GAGACACUCGGAGCUUAUUCGAAG UGUUCAUUUGUAGAAUUAAGGUAC AGUUUCGCGUCAUUGUGACUGAAG UAAUGACGAUGACGAUACAGAAGA UACCUUUAGGAGGUUUUGAUUGU UCUUCUAAGUUGUUCGUGUCACUU UCGU	172	23,255814	28,4883721	13,9534884	33,7209302	37,2093023	62,2093023	1,18367347	1,66666667	-49,4	-38,4	0,00200261	44,08	-28,72093	-0,771875
>spi_vegetal-miR1874	UGCAGUCUUGCAUGCGAUCCUGUC UGGCGAUAGCCCAAAUCAAAAAGU GUGGAUGUGCUGAUGCUCGAUUUC CUGUCGAGGAUCGUCACAUUUGCA ACACAGUCAAGAAACCUGAUACAGG UUAGGGUUGAAUUUUUUUAAUUG AUUUUCGAUGUUUUUUGUUUGUU UUUUUUUACCUUUCCCUCUCAUCU UUUGUCAUAAUUUCCUUAGCUGGU UAUCAGCUGUGCAAAUUUUAAGCG GUACCACUAAGAAAGUAGAAACCUC CUACAUGUCUCUUUGAGCUGUAGG GCUACUCCACGAUCCAUAUCGUCAU UCAAUGACUUCC	326	19,0184049	23,3128834	21,1656442	36,196319	40,1840491	59,5092025	1,55263158	0,89855072	-85,5	-77,1	0,00033299	56,9	-26,226994	-0,6526718
>spi_vegetal-miR6457a	AUAAUUAUCCCUUUGUUUAUCAUC AUGAUAAUUAUCUUUGUUUUCAUU UUUCAUCUUUCUGUAGAAUGCCCC AGUGUAUCUUUUAAAAACUCUUGG UACACAUUUUCGGCGAGGAUAAUG CCCAAAAUCAGGGGCUGGGGCUGG UACAGAGCCGCUUGCCAAAGCCUAG GAGGAGACCUAGUUUCCAUCGAAA CCGAAGAAGAGUGGAAUUUCAUCG CUGACGAAAUACAAAGGCGAAAUGC U	244	20,9016393	28,2786885	20,0819672	30,3278689	40,9836066	58,6065574	1,07246377	1,04081633	-67,2	-55,8	0,00223288	38,16	-27,540984	-0,672
>spi_vegetal-miR5512b	GCCGGGUAAAAAUAUUCUCGCAGU AGCUAUAUAAAUAGGCUGGAAAUC UGGGUAAUAUGGUAAUGUUAACAC GUGCGCCAUCCAUUUAGGUUUCGU UGUUUUUACUUCUAGUUCCUGAAA GAAUUUUACCCAAU	135	20	28,1481481	17,037037	34,0740741	37,037037	62,2222222	1,21052632	1,17391304	-37,7	-37,7	0,135551	7,75	-27,925926	-0,754
>spi_vegetal-miR1099	UUUCAAAAGAUCAAUUUAGCUUUC AAGAGAACUGCACCAAAGAUGGACU GACCAUGGUGUUUUUGUUUACAAU ACUAACUGUGCAAGGAAAGUCUUU CCACUGCCAGGUAACCCUCUCAUUA GGAUUAGCAGUUUUCGCUGAGUUG GUGACGACAAUGGACCUCUCACACC AAACCCAUGUCUGAUUGGUCUUGU UACAGCUGUGGGGGGUGCUAAAAA AAUUAUUAUGUUGAUAUGAGUGCC UCGGUGUUCAAUAUAAUUUCCAAA CCUUGAAAUCAAAAUUGUUUCUUU CUGUGA	298	20,1342282	28,1879195	19,1275168	32,2147651	39,261745	60,4026846	1,14285714	1,05263158	-73,3	-71,1	0,00011848	28,25	-24,597315	-0,6264957
>spi_vegetal-miR156h	ACCGGGAAAGAGAGCCAUCUGUUG AAUAUACAACAUAUUGUGUAUACA ACAUAUGUUGUAUACCCACAAAAG UCGUUUAUGUUUUCUCAGCUGUAC UUUCUUCUGCCACU	111	16,2162162	28,8288288	20,7207207	33,3333333	36,9369369	62,1621622	1,15625	0,7826087	-27,1	-23,8	0,026686	14,54	-24,414414	-0,6609756
>spi_vegetal-miR474c	AAAUACUUGAUAAAAUCUAUUGAU AUUACCCUAGGAUAUAGAUAUGUA AACAANAGGUGGGUAUCGCUUCUC	199	20,6030151	30,6532663	15,5778894	32,160804	36,1809045	62,8140704	1,04918033	1,32258065	-45,8	-28,9	0,0008941	49,13	-23,015075	-0,6361111

	GGCCUUUUGGCAAAGAUUCCACGA GGCCUAUGAGAAACUUUUUGUUUU UGAUGGUUCAAAACCUCUUAGGUA UGGCUACUCAAGAAAGUCAGGAAA GUGUUUCUAUCGGUGAGUUUACAA GUACUA															
>spi_vegetal-miR8670b	ACAAUCCCAUAAUUCUCCAGGAGGA UCACCGGAAGUGAACUAGUGAACCA ACUUUCGGCACCUGUUGGAGCGUU AUUGGGGAUAAU	87	24,137931	28,7356322	21,8390805	24,137931	45,9770115	52,8735632	0,84	1,10526316	-32,5	-32,5	0,289571	5,8	-37,356322	-0,8125
>spi_vegetal-miR6151f	UUGAUCUAUGGACUUUAUAAUCUC GCUGUCUUACUUCGUGAAAGUUCA AAGGGUUGAGUGUGGGGCAUUGG AUUUUUAAGUUAGACAGCAGUUCA GCCAUAGAUGGU	108	25,9259259	24,0740741	13,8888889	35,1851852	39,8148148	59,2592593	1,46153846	1,86666667	-31,5	-31,4	0,115962	7,79	-29,166667	-0,7325581
>spi_vegetal-miR5807	UUGUCAAACAAAUUCUCCUUGCCA GUAUCAUAGGAAGAAUAAAGAGAA CAGUGGGGAGAAUACCACUUCCCAU GUGAAGGUGUAGAGAGUUAAGUG GGGGAGUCAUGAGAAAAGAGGGCA AGUGAUGGGUAAUGUACUCUAAUC AAACCUUUAAUCUGACUAAUAUUC UUUAGAUGGAAAGUUUAAGGGAGC AUAUUUGCUUUGAUUU	209	24,8803828	33,492823	12,9186603	28,2296651	37,7990431	61,722488	0,84285714	1,92592593	-50	-48,8	0,0118757	22,39	-23,923445	-0,6329114
>spi_vegetal-miR5185m	UGUACAUGAGACACCUAUUGAAAA UUGAAAUCCCACACCAAUUCCUUUG CGCAUGUUUACCAGAGCAUGCUUG UACAAGGUAUAAAUAGCCAGUAAU GAUUCUUUAUAUGUGUUAUGCUU AUGACAUUGAUCUUAAGUAUUCAA AAGGAAUGUUUUAUGUGCU	164	17,0731707	31,097561	16,4634146	34,7560976	33,5365854	65,8536585	1,11764706	1,03703704	-40,2	-34	0,0123942	29,85	-24,512195	-0,7309091
>spi_vegetal-miR10517	GGUCCUCCUGUCAUCCUAAUCAAUA AGCCGUAUGCCUUAUACCCACAAUG CUAUUCAGUCAUUCGCCAGUUAUU AAAUGUCGCCCGGGACGGGAGGGA GGGAGGGAGGGAGACGCGAAGGAU UUCAGGGAUCACAUGGUUUUUGAA AGGAAAUGAAGGGGGGAG	165	30,9090909	26,6666667	19,3939394	22,4242424	50,3030303	49,0909091	0,84090909	1,59375	-43,7	-39,2	0,00258854	30,99	-26,484848	-0,526506
>spi_vegetal-miR11078f	UUUUUGGCAUAUGAUUGGUUGAG AGGGUGGCCUGGUUUCUGGACCAG UCAGAGAGCAAAGUGUAGCAACCAA UAAAAUAACGAAUUACUAUCGAGG AUCGAGGCUCAACAAAAAAUGAUCU UCAAGGACACAUUCUCAAGCUAAUU AUUUGCAAUCC	158	22,1518987	32,9113924	17,721519	26,5822785	39,8734177	59,4936709	0,80769231	1,25	-39,5	-39,2	0,00224512	17,92	-25	-0,6269841
>spi_vegetal-miR5828	CGUAAGUAUUAUUUUUAGGUGUC GAUGUGGGUUUGAAAAACAUCAAA GCGAACAUGAUUUCAGAAUGAGUU GGUCUGAGCACGUUUACGCCAACAA CCAAAAUUUUGUUUGUGUACUUAC GAAAAAAAGGAUUUCACCGUCACCG GGUGAAAAAUUUAACCUUUUAUGU CUUAAACUCAGAAACAGAAAGAGAC AGGUUAAAAGACAAUUAAAAGUAA UAUCUUGUU	228	19,2982456	35,9649123	14,4736842	29,8245614	33,7719298	65,7894737	0,82926829	1,33333333	-52,9	-40,9	0,00036742	44,4	-23,201754	-0,687013
>spi_vegetal-miR2120	UCCUCCAGCGUACGAACGGAUAAAA GUUUCCAGCACAUGUUUAUCAUUU GCUAGUUGCUUUUGUCCCGUUUGU UCAUUGGAUUU	85	18,8235294	20	21,1764706	38,8235294	40	58,8235294	1,94117647	0,88888889	-31,5	-29,6	0,183114	2,84	-37,058824	-0,9264706
>spi_vegetal-miR2275a	CGGACAAGAGCUUUCACCUGAAAAU AUACGAAGACGCUUUGCUCAAAGG AGACUUUGAAUAAGCCAAUGUCCU	315	20,6349206	28,5714286	17,1428571	33,3333333	37,7777778	61,9047619	1,16666667	1,2037037	-79,5	-61,9	2,44E-05	75,8	-25,238095	-0,6680672

	GUUGAGUAAGUUCGCAAAGUUUCG UCUUUGUUGUGUUUUUCCACAGUG UCUCAUUAAUACGCUCUGAAGUUG AUAAGCCAUUACGCUUCGAUGGAU ACUUUAAUAUACGAAAUAGGCUCA AAUGAAGAGGCCUAAACCUCCAGUG AAAAGAUUUUUGCACCGUUGUGAA AACCUUGAUAAGGGUUGGUUAAAA GCGUGGUUUUAUUUUCUAUUUGU UUUCAGGAUCUGAAACUUUUGUUA C															
>spi_vegetal-miR2949a	GCUAAUAGUUUUUCAUGUAUCCAG AGUAUUUAAACUGGAUUUGAUUU GUGGGCAAAGGUUACAGAAUUUAU CCAGAUGCUUUAGAAUAUUGUCAG UAGACUUGCAAAAGUGUGCGAUGU GUAUCCUGGACCAAUAGUUGGUCU UGAAAAUUAGCUGGUCUGAUUUUC CUUGCCAGGUUUGCAAGAGAUUAG CUUAAGUGGUGCAUGGAUAGACUG AAAGGACUUUUGAC	230	24,3478261	27,3913043	13,4782609	34,3478261	37,826087	61,7391304	1,25396825	1,80645161	-65	-63,5	0,00174049	23,53	-28,26087	-0,7471264
>spi_vegetal-miR5297	AAGAAAAUUUCUUGGAAAAAUCUU GGAGAAUAGGAUACACCAGAAACCA UAUAAUUUCUAUAUACCCCCUAUG GAAAUAAAUCGGGGAAAUUAUCGG GAAGUAUCGGGGAAUUAGCUCAAA UGGUAGAGCGCCCGCUUUGCAUGC GGGAGGUACCGGGAUCGAUACCCG GAUUCUCCAUAUGUUGCCCAAAACC UUUUCUU	202	22,2772277	31,6831683	19,8019802	25,7425743	42,0792079	57,4257426	0,8125	1,125	-55,3	-49,2	0,00551786	43,68	-27,376238	-0,6505882
>spi_vegetal-miR3948	UAUUGGGUUUAAAUUUGCUUUUU UUAAGUGCAAGAAGAGCUGAAAUU AAUUUUUUGAGUGGCUGGAGGGC GUGGGGUGGGGGUAGGGUGGUAC UCAACAAAGGGGGUUGCGUACAUC CAAGCCCCCCAUCCCCCUUCUUCUC AUUAAGCUCCACCCUUAGCUGAGG GUGUUCUUUGGAGGCUCUUUCCUC UUCGUCCUUUUCCUCUCUGGACAU GCGCACACCAUAUUCAAAGAAUGCA AAAUAAGGGCUUGCCAAUCAUUUC AAAGAUUUAUCGUUGCAAAGAAAC AUAAAAAUCAACUUACCUUAUCUCG UAAAAGAUUAGCGAAUAUACACCAC AAAC	342	21,0526316	27,1929825	21,6374269	29,8245614	42,6900585	57,0175439	1,09677419	0,97297297	-94	-75,2	5,17E-05	82,36	-27,48538	-0,6438356
>spi_vegetal-miR7713	UUGCAGUCAACAAGCUUUUCCACU UAGGUGUCUCAUCGACGCCUCUAA AUUACGACGCUUGUUAUUAGUUAU GCUUGGAAUCUAACCAUUAGCAAG CUUGUCUUGUUAAGUUGCGGAGCU UGUUGAAUGAUU	133	20,3007519	23,3082707	19,5488722	36,0902256	39,8496241	59,3984962	1,5483871	1,03846154	-40,1	-36,3	0,0221342	14,8	-30,150376	-0,7566038
>spi_vegetal-miR7514	AAAAUUAUUUACCAUGUAAUUUUC ACUGAUUGAUAUCGCUAAUCACCU GCCGAUACGUCACUCGCCUUUCGU GCCUUUAUGUCAGGUGAUAAGUGA GAGGCAAAUUCUCAUUCCUAAAUA AAGUCGCCUUUUCUUUUCAGUAAA GGCAUAUAGUGUCUAUAAAAGUAA ACAAAAUAAUACAUGGUUGCUCUU GGAUAUGGAAUUACACUUCUCGUU AUCGACUUGAUAUCUCACCAGAGA	279	16,8458781	31,5412186	18,9964158	32,2580645	35,8422939	63,7992832	1,02272727	0,88679245	-61,4	-57,6	7,05E-05	49,44	-22,007168	-0,614

	GCGCAGCGAAUGAGUAAUAAUUCA AGGUAACUAAUCUA															
>spi_vegetal-miR1445	CACAUACCCUGCAGCAGAGGUUUU UUCCUACUCCCUUCCAUGCUACAAG UAAAGGGAAAGUUGUCCUUUCCCU UGUAGAGUAGAAAAAAAACCUCUG CUCGUAGGGUAUUAA	113	18,5840708	28,3185841	23,8938053	28,3185841	42,4778761	56,6371681	1	0,77777778	-52,7	-49,1	0,114623	15,69	-46,637168	-1,0979167
>spi_vegetal-miR5277	ACCUGGACCAUGCAGUUGUGAUUA CAUAGGUACUAGGUUUGCAUAACC UGUUUACAGGCUAUGCAAGUCUGU GUCUUCAAGUGCACGAUUUAGCAU GGCCAAUA	105	22,8571429	25,7142857	20	30,4761905	42,8571429	56,1904762	1,18518519	1,14285714	-40,4	-40,4	0,141267	6,36	-38,47619	-0,8977778
>spi_vegetal-miR1519	AAUUGCAACAAAAAAAAAGGCCAAC CUCCGUGAGAAUGAAUAAAUCGAG AGUGGUCUAGCGUGAUCUGUACCC UUAUCGACAACAGUCGGAAUUCAU CAUCAUAGUAGUCCAUGUAUCAGA CCAUUUUUAAUCCAUUGUUUGAUU UUUGUUUGCAACUACCUCACGGAG AAAAAAGAUUACCAUUUACUAGUG GAAUUAUGAUUAAAAACAUGAGUG UAACAAAAUAGUCUUGCGUUUAAU UACUUAAAAAAGACACCUUUUAGA AAGAAUCUGUGUCAUGAGUCUCUU GUCGUUAGGAUUGCCUAAACGUGA CGUUUUUUUUUUAGCUGCAAGC	335	17,9104478	33,1343284	17,3134328	31,3432836	35,2238806	64,4776119	0,94594595	1,03448276	-72,7	-65,52	4,28E-05	53,03	-21,701493	-0,6161017
>spi_vegetal-miR11551a	GCUUGUGCAAGUGUCUGGAUCAGG CAAACUGUUUUGUUUUCCAUCCGC AUUAAGAAAAGACACUGUAAUGGA AACUGGCAUGCAUUUUGAUGCUGU UAUGAAGGCCAGGACAGUUUUGAU GUCAACACCUGCAACAUAU	140	22,8571429	27,8571429	18,5714286	30	41,4285714	57,8571429	1,07692308	1,23076923	-36,6	-27,4	0,00735276	18,56	-26,142857	-0,6310345
>spi_vegetal-miR6269	UGUUUGUUCAGAGACUUUGACCAU CCACUGUGUAGGUGAUGAAUUAAC CUAUUCUCAUAAAAUUGUUGGCUUG UAAAGUUACAGAUGCUGUCAGGAG AAUUUUCACAUUUACCAGUUUGGA AGAGGAAGGCUUGACUUCUUAACA UUUUUGUGUUAUGUAAUGUGAAU AGAGAAUAGUGAUUGACAGGGUGA CUCACACAGAUGGGGAAUUUUUUU CUUUGCAGGGUCAGAGGAGAUCUC UGAACAAUGA	250	24	28	13,6	34	37,6	62	1,21428571	1,76470588	-71,6	-68,6	0,00131764	32,46	-28,64	-0,7617021
>spi_vegetal-miR169q-1	GUUAAAUAGAUCGCUUCUCGGCCU UUUGGCUAAGAUAAAGUGUCUUAG CCGCAAGCCAGAAUAGUCCUAUUU UGU	76	21,0526316	25	19,7368421	32,8947368	40,7894737	57,8947368	1,31578947	1,06666667	-25,8	-24,3	0,0462184	8,11	-33,947368	-0,8322581
>spi_vegetal-miR8762c	AUAUCCUGAUCCAGCUGCGAGAGA UAGCUAGAAAGUGCUUCCACUUUG UUGAUAUCUCCGCACGCAACAGGAA CA	76	21,0526316	28,9473684	25	23,6842105	46,0526316	52,6315789	0,81818182	0,84210526	-26,9	-26,1	0,672693	1,2	-35,394737	-0,7685714
>spi_vegetal-miR7493b	GAAUUAACUUGGAUUGUUAAAAGG GGAAUUUGAAAGGCACCUUAAAAG UAGAAAAACCUUCAGUGGAGUCUU GAAAAGUUUUUCCAAGAUUGAUUA AGGUUAAGCUAAAACCAGAUUCCA GUUCUUGGGCCUCUAAGCCCAUGG AAUAAAGGUGUUUAAUAUAACUCA ACUUUGAACUUUGCACAAGCCCAGA GUUAAAAG	202	20,2970297	35,6435644	15,3465347	28,2178218	35,6435644	63,8613861	0,79166667	1,32258065	-46,9	-23,4	0,00117187	57,83	-23,217822	-0,6513889

>spi_vegetal-miR5376	UUAUGUCCAGAAAAUGCAAGCGGU AACGAAAAUGGCAGAUUUGACGAA AUUGUGUCAGAAUCGUCACUUUUG ACAAAAUUUCCACAGGUUGACAAAU UUCGUCAAAUCUACGAUUUUCGUC ACUGCUUGCAUUUCUGGACACAU	145	18,6206897	31,0344828	19,3103448	30,3448276	37,9310345	61,3793103	0,97777778	0,96428571	-69,1	-63,2	0,0105482	10,9	-47,655172	-1,2563636
>spi_vegetal-miR5660	UCAAAAAGCGUAAGUAUAUUAAGA UUUGGUCCAUCAGAAUACUCUUCG AUUUUUCCAUUGUGCCAACCGCAA GUCAUAUUAUUAAACAAACUUAAC AAUAUACAGAUGAAUAUAUAGAUG AAAGGGAUAUUGAAACUUAGCAAA GAACUCUCUUCAAAUAGCGAUGGA AAGGAGACCGAGGGUUUCACUGAG GUAGUCGUGGCCGAGUGGUUAAUG CGAUGGACUUGAAAUCCAUUGGGG UCUCCCCGCGCAGGUUCGAAUCCUG CCGACUACGGCCUAUCUUUAUAUA UUUACAUUUUAAA	303	20,4620462	32,0132013	18,4818482	28,7128713	38,9438944	60,7260726	0,89690722	1,10714286	-76,8	-48,5	4,62E-05	58,76	-25,346535	-0,6508475
>spi_vegetal-miR5302b	UACACCAAAGACGAUGAAAGUAGCU GAAGCUAUUAACAACGAAACACUUC UCUCCAAGUUGCUCAUAAAAAAAG GCUGUAACAUAAAUGUAGUCGUGG CCGAGUGGUUAAGGCGAUGGACUA GAAAUCCAUUGGGGUUUCCCCGCG CAGGUUCGAAUCCUGCCGACUACGG CUGUAGGCUUCAGCUUUGUCAUUA UUUUAGUCUG	206	23,3009709	28,6407767	21,3592233	26,2135922	44,6601942	54,8543689	0,91525424	1,09090909	-58,2	-36,9	0,00901829	43,2	-28,252427	-0,6326087
>spi_vegetal-miR1516a	CUUCUGUUUGGAGCAAGAACACCCA AAAUAGCUGAAUUUUAGUUUUAAG CUAUAUUGAGUGUUCUCAUUCCCA GCAGGCU	81	18,5185185	27,1604938	19,7530864	33,3333333	38,2716049	60,4938272	1,22727273	0,9375	-28,9	-28,8	0,0700871	5,08	-35,679012	-0,9322581
>spi_vegetal-miR7717b	CGCGGGUCUCUUCAGUAAUUGAUC ACAGAUAAAGUCAUUAUGUGGUGA GAACAAAAAAUGCGGCACGCUAAAA UCACUUCUUUCUCACCACACUCUGA CGUCCUCUGUGAUCUAUUAUUGAG UUGACCCACU	133	18,0451128	27,8195489	24,0601504	29,3233083	42,1052632	57,1428571	1,05405405	0,75	-54,6	-54,3	0,188037	3,97	-41,052632	-0,975
>spi_vegetal-miR3638	CUGUUGUCGCUAAGAGUCCAGACA ACACUGCUGGCGUCAACAUGUCACA CAAUGCCUUUUUGAGCUUGUGCUC CGAAAAAAUAGCAUUUUCCUUAUU AGUCAAGAUAUUGUGGUAAAAAAC AAAUCGAAUGUGGUUUAGCGUUGU CUGUGCUCUUAUUGACAAUGA	167	20,3592814	28,1437126	19,1616766	31,7365269	39,5209581	59,8802395	1,12765957	1,0625	-47,8	-40,9	0,00221659	33,14	-28,622754	-0,7242424
>spi_vegetal-miR11507	GAAAGUAUUGUUUCAGUUUAGCUG UCUGAUUGGUUUUCAUUAUCUGG GUGCUGCCAGUUUCUGAAGAUGCA UUGUCACAUAGGAAGGGUGAAAAG AAAUAAACUCUCUUAAAUGUCUGG ACCUGGUUGACUAAAGGAUGAAUA AAAUUUCUCCACUAAAGAGUGAGU GGAUAGCUCUCUCCAUCCCGUGAAC AAUCGAUUUAAUGCCGUGGAUAAA AUUUCCCUGCUGGAUAGCAAUUUA UCCAGCAGACAAGAAGUUAUACUU GCUUUGAGCAACUGAGACCUGUUG GCUAAAUGAUAAUACCUGUGAUGA AAGAUGAACAGUAAUCACAUGCUC UC	339	21,5339233	30,3834808	17,4041298	30,3834808	38,9380531	60,7669617	1	1,23728814	-81,1	-51,8	2,93E-05	89,95	-23,923304	-0,6143939
>spi_vegetal-miR9757	UAAUUUGCAGGGGUAUUUGAGGA UUGUUCAGCUCUCAGUGUCAUAUG	246	20,7317073	32,5203252	17,0731707	29,2682927	37,804878	61,7886179	0,9	1,21428571	-64,8	-55,1	0,00014949	37,72	-26,341463	-0,6967742

	GUGAAAGUCUUCAGUUACUCUCUU UAUGAAGUGUGAUUGGAGACUUU UAUCGUGAUCUGGAGCACUUACAC AGUCACAAGCGAUACACAACGACAA CCUUCCUCAGAUAGGAGCUACAAUA UACCGUGAAUAGCUAUAGUAGCUG GAUUUGCCUAUAUCAAAAAUCUGG AUAAAGAAGUCAUAAAUAACUGAA AAGAA															
>spi_vegetal-miR8639a	GCAAAAAUCAAUAUCCAUAAUUUU UUCUUCUACAUUUCUUUUGUAACG CAUCUGAGUGUUUUACGAAAAAAA UGAUAAUGCCCAGCCUGCAUUGUU UCUCUAAUCGUUAAAUUACCUGGC UACAUAUGUUUUCAGAAUGCUCCA GCAAUUUGCGGUAAAUCAUAUGUA GAAUUCAACUUGUGACGUCAGCCA ACAAUAGACUUUUACUUCCAAGGA AGGCACGUGUGUCGAUGAACUGAA CAGAUUUGCAUUUCUUUAGUAAUG CAAACAAAAGGCCUGUGGCAAGUCA UUGUUUGCUGAAACUCAAAAAUAU GGAUUUUUAUUUUCAC	330	16,3636364	30,9090909	18,4848485	33,9393939	34,8484848	64,8484848	1,09803922	0,8852459	-75,6	-65,6	0,0001163	44,16	-22,909091	-0,6573913
>spi_vegetal-miR7806	AUGUAAGAGAAUCCCAUAUGUGCA UGAGUGAUUAACGUAACAAUCUGA UAAGAGAGAAUCCUUUAUGUGCAC AUGAGCACUGCACUGAUGAUACUU ACCUGACGCGGGUUAGGGUCUCAU AGCAUGUAGUUCUCUGCAUUAUGG GACUCGUUACCC	157	22,9299363	28,0254777	19,7452229	28,6624204	42,6751592	56,6878981	1,02272727	1,16129032	-43,9	-33,9	0,00284556	48,38	-27,961783	-0,6552239
>spi_vegetal-miR2595	AUACCCUUUUGAAACGAGCAGAGA AAAUAAUCAAUUUCAACUUUGUGU GCUUCAGCUGAGUUCUAGGUAAGU ACAUUUUCUUCUCUUCCCUAUCAG UUGAUCCAUUAUCCAAAUACGCUU UUAAAACCUUUGAAUAAAGGUCCC UUGGGUGAGGGAUUCUCAGAGAAG UGAUAGUUUCUUCUUCAUUCAAAA GGGAGA	199	18,0904523	29,1457286	18,5929648	33,6683417	36,6834171	62,8140704	1,15517241	0,97297297	-50,6	-33,14	0,0005959	55,35	-25,427136	-0,6931507
>spi_vegetal-miR1067	UAAGAGAAGAGUGUUUGCAGUUAG ACUACAUAGAGUUGUUGCAGCAGU GUCAACAAAUAUUGCUUGAGAUUA CACCUGAUGAGUGUCAAGCAAUAG AAGCUUCAACCAGAAAGCAGUCACA AAAUAAAGUUUGAUACCAAAUGGC AGGCAGGCAGGUCAUGUUACUGCU UCCAAUCUAAAAACUGCUUGCAAAA CAAACACAGCUAAGCCUGCUAAGAG UCUUGUCAAG	230	21,3043478	35,6521739	18,6956522	23,9130435	40	59,5652174	0,67073171	1,13953488	-58,6	-48,8	0,00032331	36,81	-25,478261	-0,6369565
>spi_vegetal-miR10984a	UACAAUCUUUUUUGUUUUCUGUU UAAUGGUGUCAUGUCAUAAAAGAC GGACUUUAUCCAUAACAUAUUUCA ACAGGAUAUUUUAUCGCGCAAAAC GGCAAAGGAACCUGUUUAAACAUC UUAGAAUUAUACGAGGCAAAGCUG UUUCACGGUGUUCCAACUAAGAAA GUAGACUGUCUAGUCGACAGUGAA AUCGUAUGGUUUUAGUCUAUGCUU UAAAAGGAUUAAGACAGAAUUUAA AGAAGAUUUCU	251	18,3266932	33,0677291	15,1394422	33,0677291	33,4661355	66,1354582	1	1,21052632	-58,1	-51,5	0,0002906	54,26	-23,14741	-0,6916667
>spi_vegetal-miR7993d	UUCACAGCAAGUGAGAAAUUAUCU GCGCUUAAGCUAAUGUUAUGAAUA	139	18,705036	23,7410072	14,3884892	42,4460432	33,0935252	66,1870504	1,78787879	1,3	-35,3	-32,6	0,0178895	26,27	-25,395683	-0,7673913

	UUUUAUGGGUUUAAUUUAACUUG UGUCUUCAUUUGCCUUUGUUAAUC GCAUUAAUGUAUGCAGCAGUUGAU UGUUAUCGCUUGCUGUCUU															
>spi_vegetal-miR7980b	CCAAGGGAGUGGUCAUUGUAAAUU ACAGAAGGGGGGGGGGUGUGUAGA GAAUUUUGUUUGUGUCAAGAUGG CAUUUACCUGAUCACCCCAUAAGGC UCUUUAAAUUCGUAUGAUCCCUCC ACCUCAUUGCAGUUAAUUGGCAGU CAAUCUUCUUGAGUCCCCCCCUUUA UAAUCUGUUGGCAAAGACUGAUUC CCUCUC	200	22,5	23,5	22	31,5	44,5	55	1,34042553	1,02272727	-57,9	-49,9	0,00315975	35,25	-28,95	-0,6505618
>spi_vegetal-miR5658	AGGCUAUACUUGCAUCGUCUAAAG UGGUAUAACUGUAUAAAACAGGAU AAAAUACAUAGGCAAGUCAUGCAU ACCCCUCGACGAUUGAUGAAUGAG GACGAUAUGGAUUGGGAAGAGGCA UUAGAGGCUGCCGUGGACAGGAGA AAAUUCCUAUUGAAUCGUCUGAUC AACAAACCGUUAUUGGAUGAAAUC GAUGAUGAUGAUGAUGAUGAUGA UGAAAAAGAGUAGGAAAUGAAUAC CGUGUAACCGCUGUAGUAUGCGUG UAUAGUUA	272	25,7352941	34,5588235	13,9705882	25,3676471	39,7058824	59,9264706	0,73404255	1,84210526	-69	-65	0,00050476	37,29	-25,367647	-0,6388889
>spi_vegetal-miR11042	UUUCUCUCCAAAGUAUCACCCCUUC AUUAAGCAUUAUGAUCACAAGGAU AAAUGGAACGACUGCAGACUUUAG AGGCUUCUGCUUAUUGAAAAAGUU CUCCUUUUCAGUACCAUGGGAGAU GUUUAGAGUAUAGAAAAAUUUUUU AAUGAUCAAAGGGAGUAAAGGGUU AAGGGAAGAGGGUAGGUACAGGAG AGCAC	197	23,3502538	33,5025381	14,7208122	28,4263959	38,071066	61,928934	0,84848485	1,5862069	-48,8	-31,29	0,0019113	48,76	-24,771574	-0,6506667

ANEXOS

Revista: Evolutionary Bioinformatics
ISSN: 11769343
https://journals.sagepub.com/home/evb
2017 Impact Factor: 1.877

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3. What do we publish?

3.1 Aims & scope Before submitting your manuscript to Evolutionary Bioinformatics, please ensure you have read the Aims & Scope.

3.2 Article types Manuscript types eligible for submission are described below.

1. Commentary Commentaries discuss the findings, implications, and/or outcomes of specific research or wider research on a general topic. They elaborate on or offer original ideas about a specific paper or a widely-researched subject. Commentaries differ from reviews in that they present the author's original ideas and suggestions instead of only collating and reporting the previous research.

2. Concise Review These are similar to a review, but less elaborate and often sum up several studies in a more concise manner for easier reading and reference.

3. Dedication Dedications are to colleagues or notable researchers in a specific field who have recently passed away. Contact the editor in chief of the applicable journal prior to manuscript submission.

4. Editorial Written by the Editor-in-Chief, deputy Editor-in-Chief, Guest Editor or Associate Editor of a journal, editorials are intended to inform readers of changes concerning the journal, or to introduce supplements, special issues, or new ideas relevant to the journal. In limited circumstances individuals other than theindividuals listed here may propose an editorial topic if they wish.

5. Image of Interest This submission type presents images supporting evaluation of a condition or diagnosis of an unusual case. The image may be pathologic or radiographic, and must be of high quality and illustrative of the full spectrum of the disorder. Your manuscript should contain a summary of the presentation, an indication of the features of the image leading to diagnosis or critical to the management of the condition. There should also be a discussion of the disease or diagnostic or therapeutic process. There may be no more than two figures and the word count excluding the abstract and references may be no more than 300 words.

6. Letter to the Editor Letters to the editor can be submitted on any topic relevant to the journal and are usually in response to an article published in the journal. They can suggest new subjects to be incorporated by the journal or commend and review papers published in the journal. We recommend that individuals considering submitting a letter to the editor should contact the editor in chief first to discuss their manuscript. Authors should be aware that letters to the editor are not always added to some databases/indexes. Where the editor in chief determines that a letter to the editor does not require peer review a 50% discount on the journal's standard applicable article processing fee will apply. Oth published paper typically addressed through an expression of concern or retraction; in such cases no fee will apply.

7. Meeting Report This manuscript type reports on a meeting with specific relevance to the journal it is submitted to. Meetings can be international or national conferences or institutional seminars.

8. Methodology Methodology manuscripts explain a new methodology or an improvement in existing methodologies in therapeutics techniques or medical procedures.

9. Opinion A short, opinionated response to an article published in the journal it is submitted to or elsewhere.

10. Original Research These should detail original experiments/research conducted by the authors. Any research on any topic is accepted, provided it falls within the aims and scope of the journal. Original research must add to scientific knowledge on the subject and must be completed in accordance with ethical principles. Research on humans or animals must have applicable ethical approvals.

11. Perspective Typically presenting an opinion based on practical experience, these manuscripts are similar to opinion articles, but stem from personal experience of the subject discussed. They can be written in response to other papers provided the author has relevant experience.

12. Rapid Communication This is a broad-scoped category for short papers discussing a topic relevant to the journal. Since these articles are shorter they are often able to be published in a timelier manner. They are assigned high processing priority by the publisher.

13. Research Proposal Research proposals present outlines of proposed studies and should describe the goals, methodology and the predicted results of the research. Research proposals may also contain the results of preliminary studies, although authors should consider presenting such results in an original research paper.

14. Review A review is a detailed examination including the benefits and drawbacks of a medicine, therapeutic technique, computer program, policy, or anything else appropriate to the journal. They are substantially composed of a report on previous research. Authors wishing to present original ideas in addition should choose the Commentary type. All journals accept unsolicited review manuscripts for peer review.

15. Short Commentary A short commentary is similar to a commentary but briefer at around 1,000 words excluding references.

16. Short Report Short reports present new research that adds to previous studies. This can be reporting on the reliability or unreliability of research or informing readers of new factors that may influence the outcome of the study. Authors must acknowledge the work they build upon including any unpublished sources. Manuscripts should be no longer than approximately 1,000 words excludingreferences.

17. Software or Database Review Discussing software, code, a database etc. (one of the two prefixes will be excluded prior to publication). These articles should review one of these that is likely to be useful to a number of researchers in a specific subject area. The example data used in software or database reviews should be available to readers for non-commercial purposes, and reviewers must be able to use the example anonymously. Software

or database reviews can be used to directly compare the reviewed programs with alternative options.

18. Technical Advance A broad-scoped category of manuscript reporting an advance within the journal's scope. New procedures, experiments, standard practices, or computational methods should be presented in technical advance articles. They report on significant advancements in technology that the reader will benefit from learning about.

3.3 Writing your paper The SAGE Author Gateway has some general advice and on how to get published, plus links to further resources.

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4. Editorial policies

4.1 Peer review policy The journal’s policy is to have manuscripts reviewed by two expert reviewers. Evolutionary Bioinformatics utilizes a single-blind peer review process in which the reviewer’s name and information is withheld from the author. All manuscripts are reviewed as rapidly as possible, while maintaining rigor. Reviewers make comments to the author and recommendations to the Editor-in-Chief who then makes the final decision. The Editor or members of the Editorial Board may occasionally submit their own manuscripts for possible publication in the journal. In these cases, the peer review process will be managed by alternative members of the Board and the submitting Editor / Board member will have no involvement in the decision-making process. Evolutionary Bioinformatics is committed to delivering high quality, fast peer-review for your paper, and as such has partnered with Publons. Publons is a third party service that seeks to track, verify and give credit for peer review. Reviewers for Evolutionary Bioinformatics can opt in to Publons in order to claim their reviews or have them automatically verified and added to their reviewer profile. Reviewers claiming credit for their review will be associated with the relevant journal, but the article name, reviewer’s decision and the content of their review is not published on the site. For more information visit the Publons website.

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4.7 Clinical trials Evolutionary Bioinformatics conforms to the ICMJE requirement that clinical trials are registered in a WHO-approved public trials registry at or before the time of first patient enrolment as a condition of consideration for publication. The trial registry name and URL, and registration number must be included at the end of the abstract.

4.8 Reporting guidelines The relevant EQUATOR Network reporting guidelines should be followed depending on the type of study. For example, all randomized controlled trials submitted for publication should include a completed CONSORT flow chart as a cited figure and the completed CONSORT checklist should be uploaded with your submission as a supplementary file. Systematic reviews and metaanalyses should include the completed

PRISMA flow chart as a cited figure and the completed PRISMA checklist should be uploaded with your submission as a supplementary file. The EQUATOR wizard can help you identify the appropriate guideline. Other resources can be found at NLM's Research Reporting Guidelines and Initiatives.

5. Publishing policies

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5.

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5.

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7. Submitting your manuscript

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9. Further information Any correspondence, queries or additional requests for information on the Manuscript Submission process should be sent to the Evolutionary Bioinformatics editorial office as follows: Erin O'Brien, Publishing Editor | erin.obrien@sagepub.com | 805-300-9509.

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References:

Cited works are numbered in order of initial appearance in the text, and appear in the Reference List in numerical order.

Use arabic superscript numerals outside periods and commas, and inside colons and semicolons.

Authors' names are inverted, and use only initials for first and middle names. No periods between initials.

In article titles only the first word and proper nouns and abbreviations that are ordinarily capitalized are capitalized.

Use accepted Index Medicus abbreviations of journal names (see the List of Journals Indexed in Index Medicus).

For journals use issue numbers in parentheses after the volume number. If there is no issue number specify month before the year.

In-Text Examples:

Diabetes mellitus is associated with a high risk of foot ulcers.[1-3]

Several interventions have been successful at increasing compliance.[11,14-16]

The data of Smith et al[18] is further evidence of this effect.

As reported previously,[1,3-6]

The results were as follows[4]:

Reference List Examples:

Journal article (1-6 authors):

1. Hu P, Reuben DB. Effects of managed care on the length of time that elderly patients spend with physicians during ambulatory visits. Med Care. 2002;40(7):606-613.

Journal article with more than six authors:

2. Geller AC, Venna S, Prout M, et al. Should the skin cancer examination be taught in medical school? Arch Dermatol. 2002;138(9):1201-1203.

Journal article with no named author or group name:

3. Centers for Disease Control and Prevention (CDC). Licensure of a meningococcal conjugate vaccine (Menveo) and guidance for use--Advisory Committee on Immunization Practices (ACIP), 2010. MMWR Morb Mortal Wkly Rep. 2010;59(9):273.

Electronic Journal article:

If you have a doi (preferred):

4. Gage BF, Fihn SD, White RH. Management and dosing of warfarin therapy. The American Journal of Medicine. 2000;109(6):481-488. doi:10.1016/S0002-9343(00)00545-3.

If you do not have a doi:

5. Aggleton JP. Understanding anterograde amnesia: disconnections and hidden lesions. Q J Exp Psychol. 2008;61(10):1441-1471. http://search.ebscohost.com/login.aspx?direct=true&db=pbh&AN=34168185&site=ehost-live Accessed March 18, 2010.

Entire Book:

6. McKenzie BC. Medicine and the Internet: Introducing Online Resources and Terminology. 2nd ed. New York, NY: Oxford University Press; 1997.

Book Chapter:

7. Guyton JL, Crockarell JR. Fractures of acetabulum and pelvis. In: Canale ST, ed.Campbell's Operative Orthopaedics. 10th ed. Philadelphia, PA: Mosby, Inc; 2003:2939-2984.

Electronic Book:

8. Rudolph CD, Rudolph AM. Rudolph's Pediatrics. 21st ed. New York, NY: McGraw-Hill Companies; 2002. http://online.statref.com/Document/Document.aspx?DocID=1&StartDoc=1&EndDoc=1882&FxID=13&offset=7&SessionId=A3F279FQVVFXFSXQ . Accessed August 22, 2007.

Internet Document:

9. American Cancer Society. Cancer Facts & Figures 2003. http://www.cancer.org/downloads/STT/CAFF2003PWSecured.pdf. Accessed March 3, 2003.

Staff of the Health Sciences Library developed this guide to provide basic assistance in applying AMA style. The examples above do not cover every possible type of publication or exception.

JOURNAL MANUSCRIPT SUBMISSION GUIDELINES

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General guidance for authors submitting to medical journals (please view the relevant journal's submission guidelines for specific requirements)

Research ethics and patient consent

Medical research involving human subjects must be conducted according to the World Medical Association Declaration of Helsinki

Submitted manuscripts should conform to the ICMJE Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly Work in Medical Journals, and all papers reporting animal and/or human studies must state in the methods section that the relevant Ethics Committee or Institutional Review Board provided (or waived) approval. Please ensure that you have provided the full name and institution of the review committee, in addition to the approval number.

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Information on informed consent to report individual cases or case series should be included in the manuscript text. A statement is required regarding whether written informed consent for patient information and images to be published was provided by the patient(s) or a legally authorized representative.

Please also refer to the ICMJE Recommendations for the Protection of Research Participants

All research involving animals submitted for publication must be approved by an ethics committee with oversight of the facility in which the studies were conducted.

Clinical trials

Many SAGE journals conform to the ICMJE requirement that clinical trials are registered in a WHO-approved public trials registry at or before the time of first patient enrolment as a condition of consideration for publication. The trial registry name and URL, and registration number must be included at the end of the abstract.

Further to the above, other SAGE journals may consider retrospectively registered trials if the justification for late registration is acceptable, consistent with the AllTrials campaign. The trial registry name and URL, and registration number must be included at the end of the abstract.

Reporting guidelines

The relevant EQUATOR Network reporting guidelines should be followed depending on the type of study. For example, all randomized controlled trials submitted for publication should include a completed Consolidated Standards of Reporting Trials (CONSORT) flow chart as a cited figure, and a completed CONSORT checklist as a supplementary file.

Other resources can be found at NLM's Research Reporting Guidelines and Initiatives

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Publication ethics

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