(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
19 December 2024 (19.12.2024)

WIPO | PCT

(10) International Publication Number
WO 2024/259263 A2

(51) International Patent Classification:
Not classified

(21) International Application Number:
PCT/US2024/034049

(22) International Filing Date:
14 June 2024 (14.06.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/521,537 16 June 2023 (16.06.2023) US

(71) Applicant: **NEW YORK UNIVERSITY** [US/US]; 70 Washington Square South, New York, NY 10012 (US).

(72) Inventor: **TENOEVER, Benjamin**; c/o New York University, 70 Washington Square South, New York, NY 10012 (US).

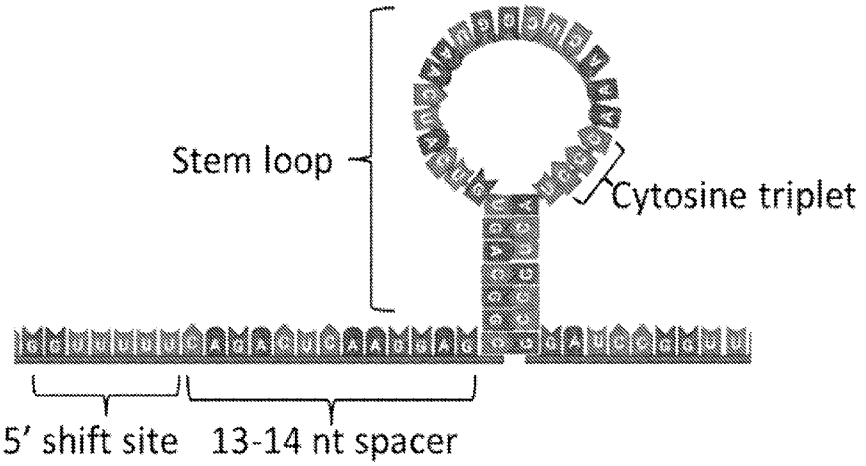
(74) Agent: **CHEN, Hongfan** et al.; Troutman Pepper Hamilton Sanders LLP, 875 Third Avenue, New York, NY 10022 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT,

(54) Title: PROGRAMMABLE MIRNA-DEPENDENT GENE EXPRESSION

Fig. 1



(57) **Abstract:** The present invention provides miRNA-based polynucleotide circuits which can be programmed to express a polypeptide payload in a target cell type or tissue, or a cell in a specific state, or a target species. The present invention further provides vectors, host cells, and pharmaceutical compositions comprising the miRNA-based polynucleotide circuits. The present invention further provides a method of selectively expressing a payload polypeptide in a target cell type or tissue, or a cell in a specific state.

WO 2024/259263 A2

[Continued on next page]

LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*

— *with sequence listing part of description (Rule 5.2(a))*

Programmable miRNA-Dependent Gene Expression

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This patent application claims priority to U.S. Provisional Application No. 63/521,537, filed on June 16, 2023, the disclosure of which is herein incorporated by reference in its entirety.

SEQUENCE LISTING

[0002] The instant application contains a Sequence Listing which has been submitted electronically in XML format and is hereby incorporated by reference in its entirety. Said XML copy, created on June 13, 2024, is named 243735_000349_SL.xml and is 11,058 bytes in size.

FIELD OF THE INVENTION

[0003] The present invention relates to miRNA-based polynucleotide circuits which can be programmed to express a polypeptide payload in a target cell type or tissue, or a cell in a specific state, or a target species. The present invention further relates to vectors, host cells, and pharmaceutical compositions comprising the miRNA-based polynucleotide circuits. The present invention further relates to a method of selectively expressing a payload polypeptide in a target cell type or tissue, or a cell in a specific state.

BACKGROUND

[0004] The capacity to deliver a desired biologic cargo to a specific cell type or tissue is arguably the most significant barrier in transforming basic science discoveries into clinically relevant therapeutics. Experimental platforms presently used to mediate delivery generally focus on virus-dependent and -independent carriers and attempt to achieve specificity in a variety of ways. Despite some notable successes, enabling specific delivery of a desired biologic cargo remains the central roadblock for the vast majority of clinical needs[1].

[0005] Despite the excitement surrounding the use of mRNA-based therapeutics, utilization of this platform is limited to vaccine applications where short-term expression in a very small number of cells is sufficient to achieve the desired outcome[2]. For most therapeutic needs, a platform that can elicit a more sustained response in a greater number of specific cell types is generally required. In this clinical space, the use of viral vectors to deliver therapeutic

cargoes has gained significant regulatory approval in recent years[3]. At present, many biologic-based therapies rely on one of three viral vectors, notably, adeno-associated-virus (AAV) vectors, adenovirus vectors, or lentivirus vectors, although many alternative platforms are also in development[4]. AAV and adenovirus vectors are typically used in therapies where they are directly administered to patients by infusion, with AAV being the most popular vector for areas outside of oncology and vaccines. Lentivirus vectors are typically used for *ex vivo* therapies, in which cells harvested from a patient are isolated and treated in the lab prior to being re-introduced[4]. While existing viral vector-based therapies such as these continue to make significant advances, the full extent of their clinical impact remains unclear in part because of a number of limitations including achieving cell specificity. Following successful entry of a given viral vector, efficacy depends on the quality of transgene expression. Specifically, the biologic cargo of interest must be expressed at the appropriate level, in the appropriate cells, and for the appropriate duration to mediate the desired clinical effect. Efforts to achieve this have traditionally focused on the inclusion of regulatory elements but these efforts have not yet materialized into a technology that provides programable tissue or cell-specific resolution as it relates to biologic activity.

[0006] Accordingly, there is an unmet need for new strategies to achieve tissue or cell-specific delivery of biologic cargos.

SUMMARY OF THE INVENTION

[0007] In one aspect, provided herein is a polynucleotide comprising:

a) a nucleotide sequence encoding a ribosomal frameshift stimulator;

b) one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of the one or more MSE sequences is targeted by a miRNA, and wherein each of the one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the ribosomal frameshift stimulator in the absence of the respective miRNA targeting the MSE sequence;

c) a first ribosomal frameshift element;

d) a nucleotide sequence encoding a first payload polypeptide,

wherein the first ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the first payload polypeptide, and

wherein translation of the first payload polypeptide is controlled by the first ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and

e) optionally one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, wherein within each combination, the ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the payload polypeptide, wherein translation of each additional payload polypeptide is controlled by its closest 5' ribosomal frameshift element in the resulting mRNA and independently requires either the presence or absence of the ribosomal frameshift stimulator.

[0008] In some embodiments, the one or more MSE sequences are positioned in the open reading frame (ORF) or in the 3' untranslated region (3' UTR) of the ribosomal frameshift stimulator transcript coding sequence.

[0009] In some embodiments, the polynucleotide further comprises a first promoter, and wherein expression of the ribosomal frameshift stimulator is under the control of the first promoter.

[0010] In some embodiments, expression of the first payload polypeptide is under the control of the first promoter.

[0011] In some embodiments, the polynucleotide is structured as an alternatively spliced construct, wherein one transcript comprises the nucleotide sequence encoding the ribosomal frameshift stimulator and one or more MSE sequences, and another transcript comprises the first ribosomal frameshift element and the nucleotide sequence encoding the first payload polypeptide. In some embodiments, the polynucleotide is structured as an alternatively spliced construct, wherein one transcript comprises the nucleotide sequence encoding the ribosomal frameshift stimulator and one or more MSE sequences, and another transcript does not comprise the nucleotide sequence encoding the ribosomal frameshift stimulator and one or more MSE sequence. In some embodiments, the polynucleotide further comprises a 5' donor splice site and a 3' acceptor splice site. In one embodiment, the 5' donor splice site comprises the sequence AG*GU(A/G)AGU or AG*GU(A/G)GAU, wherein * denotes the splice junction. In one embodiment, the 3' acceptor splice site comprises a branch point, a pyrimidine tract, and the sequence AG*G, wherein * denotes the splice junction.

[0012] In some embodiments, the polynucleotide comprises one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a

payload polypeptide, and wherein expression of the first payload polypeptide and the one or more additional payload polypeptides is under the control of the first promoter.

[0013] In some embodiments, the polynucleotide comprises one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, and wherein expression of the first payload polypeptide is under the control of the first promoter, and expression of each of the additional payload polypeptides is under the control of respective additional promoters.

[0014] In some embodiments, the polynucleotide further comprises a second promoter, wherein expression of the first payload polypeptide is under the control of the second promoter. In some embodiments, the polynucleotide comprises one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, and wherein expression of each of the additional payload polypeptides is under the control of respective additional promoters. In some embodiments, the polynucleotide further comprises one or more DNA insulator elements, wherein the one or more DNA insulator elements are positioned between the 3'UTR of the ribosomal frameshift stimulator transcript coding sequence and the second promoter, and wherein the DNA one or more DNA insulator elements enhance efficiency of termination of transcription of the ribosomal frameshift stimulator. In some embodiments, the polynucleotide further comprises one or more DNA insulator elements, wherein the DNA insulator elements are positioned between the 3'UTR of each subsequent transcript and each subsequent promoter, and wherein the DNA insulator elements enhance efficiency of termination of transcription. In one embodiment, the DNA insulator element comprises CCCTC-binding factor site(s).

[0015] In some embodiments, the nucleotide sequence encoding the first payload polypeptide is positioned in frame with the first ribosomal frameshift element.

[0016] In some embodiments, the nucleotide sequence encoding the first payload polypeptide is positioned in -1 translation frame in relation to the first ribosomal frameshift element.

[0017] In some embodiments, the polynucleotide comprises one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, and wherein the nucleotide sequence encoding each additional payload polypeptide is independently positioned in frame or in -1 translation frame in relation to its closest 5' ribosomal frameshift element in the resulting mRNA.

[0018] In one embodiment, provided herein is a polynucleotide comprising from 5' to 3':

a) a first promoter;

b) a 5' donor splice site;
c) a nucleotide sequence encoding a ribosomal frameshift stimulator;
d) one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of the one or more MSE sequences is targeted by a miRNA, and wherein each of the one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the ribosomal frameshift stimulator in the absence of the respective miRNA targeting the MSE sequence;
e) a 3' splice acceptor site,
f) a first ribosomal frameshift element, and
g) a nucleotide sequence encoding a first payload polypeptide,
wherein the first ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the first payload polypeptide,
wherein translation of the first payload polypeptide is controlled by the first ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and
wherein the nucleotide sequence encoding the first payload polypeptide is positioned in frame or in -1 translation frame in relation to the first ribosomal frameshift element.

[0019] In one embodiment, the polynucleotide described above further comprises 3' to the nucleotide sequence encoding the first payload polypeptide from 5' to 3':

h) a second promoter;
i) a second ribosomal frameshift element, and
j) a nucleotide sequence encoding a second payload polypeptide,
wherein the second ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the second payload polypeptide,
wherein translation of the second payload polypeptide is controlled by the second ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and
wherein the nucleotide sequence encoding the second payload polypeptide is positioned in frame or in -1 translation frame in relation to the second ribosomal frameshift element.

[0020] In one embodiment, the polynucleotide further comprises a DNA insulator element, wherein the DNA insulator element is positioned between the nucleotide sequence encoding

the first payload polypeptide and the second promoter, and wherein the DNA insulator element enhances efficiency of termination of transcription.

[0021] In one embodiment, the 5' donor splice site comprises the sequence AG*GU(A/G)AGU or AG*GU(A/G)GAU, wherein * denotes the splice junction.

[0022] In one embodiment, the 3' acceptor splice site comprises a branch point, a pyrimidine tract, and the sequence AG*G, wherein * denotes the splice junction.

[0023] In one embodiment, provided herein is a polynucleotide comprising from 5' to 3':

a) a first promoter;
b) a nucleotide sequence encoding a ribosomal frameshift stimulator;
c) one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of the one or more MSE sequences is targeted by a miRNA, and wherein each of the one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the ribosomal frameshift stimulator in the absence of the respective miRNA targeting the MSE sequence,
d) a second promoter;
e) a first ribosomal frameshift element, and
f) a nucleotide sequence encoding a first payload polypeptide,
wherein the first ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the first payload polypeptide,
wherein translation of the first payload polypeptide is controlled by the first ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and
wherein the nucleotide sequence encoding the first payload polypeptide is positioned in frame or in -1 translation frame in relation to the first ribosomal frameshift element.

[0024] In one embodiment, the polynucleotide further comprises a DNA insulator element, wherein the DNA insulator element is positioned between the 3'UTR of the ribosomal frameshift stimulator transcript coding sequence and the second promoter, and wherein the DNA insulator element enhances efficiency of termination of transcription.

[0025] In one embodiment, the polynucleotide further comprises 3' to the nucleotide sequence encoding the first payload polypeptide from 5' to 3':

g) a third promoter;
h) a second ribosomal frameshift element, and

i) a nucleotide sequence encoding a second payload polypeptide,
wherein the second ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the second payload polypeptide,
wherein translation of the second payload polypeptide is controlled by the second ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and
wherein the nucleotide sequence encoding the second payload polypeptide is positioned in frame or in -1 translation frame in relation to the second ribosomal frameshift element.

[0026] In one embodiment, the polynucleotide further comprises a DNA insulator element, wherein the DNA insulator element is positioned between the nucleotide sequence encoding the first payload polypeptide and the third promoter, and wherein the DNA insulator element enhances efficiency of termination of transcription.

[0027] In various embodiments, the first promotor is an RNA polymerase II promoter. The first promoter may be a cytomegalovirus (CMV) promoter, a simian virus 40 (SV40) promoter, a human elongation factor 1 alpha (EF1α) promoter, or a phosphoglycerate kinase (PGK) promoter.

[0028] In various embodiments, the second promoter is an RNA polymerase II promoter. The second promoter may be a cytomegalovirus (CMV) promoter, a simian virus 40 (SV40) promoter, a human elongation factor 1 alpha (EF1α) promoter, or a phosphoglycerate kinase (PGK) promoter.

[0029] In various embodiments, the third promoter is an RNA polymerase II promoter. The third promoter is a cytomegalovirus (CMV) promoter, a simian virus 40 (SV40) promoter, a human elongation factor 1 alpha (EF1α) promoter, or a phosphoglycerate kinase (PGK) promoter.

[0030] In various embodiments, the first promoter is a bi-directional promoter which drives expression of the ribosomal frameshift stimulator in one direction and the first payload polypeptide in the opposite direction.

[0031] In another aspect, provided herein is a polynucleotide comprising from 5' to 3':

a) one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of said one or more MSE sequences is targeted by a miRNA,
b) a nucleotide sequence encoding a ribosomal frameshift stimulator, wherein each of said one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the

ribosomal frameshift stimulator in the absence of the respective miRNA targeting said MSE sequence;

c) a bi-directional promoter;

d) a first ribosomal frameshift element;

e) a nucleotide sequence encoding a first payload polypeptide, wherein the first ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the first payload polypeptide, wherein translation of the first payload polypeptide is controlled by the first ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and wherein the bi-directional promoter drives expression of the ribosomal frameshift stimulator in one direction and the first payload polypeptide in the opposite direction; and

f) optionally one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, wherein within each combination, the ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the payload polypeptide, wherein translation of each additional payload polypeptide is controlled by its closest 5' ribosomal frameshift element in the resulting mRNA and independently requires either the presence or absence of the ribosomal frameshift stimulator.

[0032] In various embodiments, the bi-directional promoter is selected from human promoter for 3-phosphoglycerate kinase (hPGK) promoter, a minimal Cytomegalovirus (CMV) promoter, TRE3G promoter, Ponasterone A, and combinations thereof.

[0033] In various embodiments, the ribosomal frameshift stimulator is a cardiovirus 2A protein. In one embodiment, the cardiovirus 2A protein comprises the amino acid sequence SEQ ID NO: 1, or a variant thereof. In one embodiment, the cardiovirus 2A protein consists of the amino acid sequence SEQ ID NO: 1, or a variant thereof. In one embodiment, the nucleotide sequence encoding the cardiovirus 2A protein comprises the sequence SEQ ID NO: 2, or a variant thereof. In one embodiment, the nucleotide sequence encoding the cardiovirus 2A protein consists of the sequence SEQ ID NO: 2, or a variant thereof.

[0034] In various embodiments, the first ribosomal frameshift element comprises from 5' to 3':

1) a 5' shift site,

2) a spacer sequence, and

3) a stem-loop structure.

[0035] In various embodiments, the second ribosomal frameshift element comprises from 5' to 3':

1) a 5' shift site,
2) a spacer sequence, and
3) a stem-loop structure.

[0036] In one embodiment, the 5' shift site comprises the sequence 5'-GGUUUUU-3'. In one embodiment, the 5' shift site consists of the sequence 5'-GGUUUUU-3'.

[0037] In some embodiments, the spacer is 13 or14 nucleotides long. In one embodiment, the spacer comprises the sequence SEQ ID NO: 4. In one embodiment, the spacer consists of the sequence SEQ ID NO: 4.

[0038] In some embodiments, the stem-loop structure comprises a stem of 7 nucleotides. In one embodiment, the stem-loop structure comprises the sequence 5'-CGGCAGU-3' followed by a 21 nucleotide loop and the complementary sequence 5'ACUGCCG-3'.

[0039] In some embodiments, the loop of the stem-loop structure comprises an adenosine triplet followed by a cytosine triplet. In one embodiment, the loop structure comprises the sequence GUCAUCAAUGGCUCAAACCCU (SEQ ID NO: 7). In one embodiment, the loop structure consists of the sequence GUCAUCAAUGGCUCAAACCCU (SEQ ID NO: 7).

[0040] In various embodiments, the first ribosomal frameshift element comprises the sequence GGUUUUUCAGACUCAAGGAGCGGCAGUGUCAUCAAUGGCUCAAACCCUACUGCCG (SEQ ID NO: 8), or a sequence having at least 60% identity thereto.

[0041] In various embodiments, the second ribosomal frameshift element comprises the sequence GGUUUUUCAGACUCAAGGAGCGGCAGUGUCAUCAAUGGCUCAAACCCUACUGCCG (SEQ ID NO: 8), or a sequence having at least 60% identity thereto.

[0042] In various embodiments, the first ribosomal frameshift element causes -1 frameshift in the presence of the ribosomal frameshift stimulator.

[0043] In various embodiments, the second ribosomal frameshift element causes a -1 frameshift in the presence of the ribosomal frameshift stimulator.

[0044] In various embodiments, the polynucleotide further comprises one or more additional combinations of an additional ribosomal frameshift element and a nucleotide sequence encoding an additional payload polypeptide, wherein the additional ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the additional payload polypeptide, wherein translation of the additional payload polypeptide is controlled

by the additional ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and wherein the nucleotide sequence encoding the additional payload polypeptide is positioned in frame or in -1 translation frame in relation to the additional ribosomal frameshift element.

[0045] In various embodiments, the polynucleotide comprises two MSE sequences. In some embodiments, when two or more MSE sequences are present, at least two of these MSE sequences are targeted by the same miRNA. In some embodiments, when two or more MSE sequences are present, at least two of these MSE sequences are targeted by different miRNAs.

[0046] In various embodiments, the one or more MSE sequences are targeted by miRNA(s) which is characterized by tissue-specific, cell type-specific, cell-state-specific or species-specific expression. In some embodiments, the one or more MSE sequences is targeted by miR-1, miR-155, miR-124, miR-182, miR-96, miR-183, miR-21, miR-16, miR-17, miR-19, miR-25, miR-34, miR-92, miR-93, miR-142, miR-222, miR-149, miR-375, miR-503, or miR-181b-2.

[0047] In various embodiments, the first payload polypeptide is a gene editing nuclease, a chimeric antigen receptor (CAR), an antibody, a cytotoxic protein, a cell surface receptor, a transcription factor, an enzyme, a reporter protein, a cytokine, or a polypeptide that confers drug resistance.

[0048] In various embodiments, the second payload polypeptide is a gene editing nuclease, a chimeric antigen receptor (CAR), an antibody, a cytotoxic protein, a cell surface receptor, a transcription factor, an enzyme, a reporter protein, a cytokine, or a polypeptide that confers drug resistance.

[0049] In some embodiments, the gene editing nuclease is a Cas protein, ZFN nuclease, or TALEN. In one embodiment, the Cas protein is Cas9.

[0050] In another aspect, provided herein is a vector comprising the polynucleotide described herein. In some embodiments, the vector is a viral vector. In some embodiments, the viral vector is a retroviral vector, an adenovirus vector, a parvovirus vector, an influenza virus vector, a herpes virus vector, a poxvirus vector, a rhabdovirus vector, a paramyxovirus vector, a morbillivirus vector, or a reovirus vector. In some embodiments, the retroviral vector is a lentiviral vector. In some embodiments, the parvoviral vector is an adeno-associated virus (AAV) vector. In some embodiments, the paramyxovirus vector is a Sendai virus (SeV) vector.

[0051] In another aspect, provided herein is a composition comprising the polynucleotide or the vector described herein and a carrier or excipient. In some embodiments, the composition is a pharmaceutical composition comprising the polynucleotide or the vector and a pharmaceutically acceptable carrier or excipient.

[0052] In another aspect, provided herein is a host cell comprising the polynucleotide, or the vector described herein.

[0053] In another aspect, provided herein is a method of selectively expressing a payload polypeptide in a target cell type or tissue or a cell in a specific state within a multicellular organism, comprising introducing to the multicellular organism an effective amount of the polynucleotide, or the vector, or the composition described herein. In some embodiments, the multicellular organism is an animal, a plant, or a fungus. In some embodiments, the animal is a human, veterinary animal, or experimental animal.

BRIEF DESCRIPTION OF THE DRAWINGS

[0054] **Fig. 1** shows a schematic of the cardiovirus programmed ribosomal frameshifting (PRF) element. Figure discloses SEQ ID NO: 12.

[0055] **Fig. 2** shows a schematic of the programmable ribosomal shift element of cardioviruses which, in the presence of the 2A protein, results in a ribosomal -1 shift.

[0056] **Figs. 3A-3B** show the schematic of a bicistronic RNA encoding epitope tagged GFP and mCherry, the latter being in a -1 frame. Between the constructs is either a canonical stem loop (SL), or a mutated form lacking the cytosine triplet (SLmut), from EMCV which serves as the 2A-dependent ribosomal shift site (**Fig. 3A**). Western blot of protein derived from cells transfected with a wild type and mutated version of the constructs depicted in **Fig. 3A** with either 2A or a mutant form (m2A) (**Fig. 3B**).

[0057] **Figs. 4A-4B** show the schematic of lentivirus constructs expressing a miR-21-targeted 2A transcript and an alternative splice site to generate mCherry (dashed lines). Downstream of the 3' splice site contains the 2A-dependent ribosomal frame shift motif (**Fig. 4A**). In the presence of miR-21, 2A should be silenced and mCherry can be translated in original frame (frame 0). In the absence of miR-21, 2A creates a functional ribosomal frameshift element, resulting in change to the -1 frame for the cargo (mCherry) (**Fig. 4A**). If the cargo (mCherry) is constructed in frame 0, the presence of miR-21 and the absence of 2A will enable expression. If the cargo (mCherry) in constructed in the -1 frame, expression will be limited to conditions in which miR-21 is absent and 2A is present (**Fig. 4A**). Fluorescent

microscopy of wild-type MDCK cells ($MDCK^{WT}$) and MDCK cells lacking miR-21 ($MDCK^{miR\text{-}21\text{-}/\text{-}}$) 2 days post transduction (2dpt) with a lentivirus depicted in **Fig. 4A** where the mCherry cargo was constructed to be in frame 0 relative to the ribosomal frame shift motif (**Fig. 4B**). Abbreviation used in the Figure: pA = Poly adenylation sequence.

[0058] **Figs. 5A-5B** show various exemplary gene expression schemes utilizing programmable miRNA-dependent gene expression. The expression scheme can be utilized to express a single gene of interest (GOI) or multiplexed GOI through the use of alternative splicing events and/or multiple promoters. Abbreviations used in the Figure: P1= Promoter 1; pA = Poly adenylation sequence; I = Insulator; P2= Promoter 2; P3= Promoter 3.

[0059] **Fig. 6** illustrates lentivirus- and AAV2-based miRNA-on switches with a single cytomegalovirus (CMV) promoter controlling cargo (mCherry) in frame 0 relative to the ribosomal frame shift motif in 293T cells. miR-21, but not miR-124, is present in 293T cells. Abbreviations used in the Figure: P1= Promoter 1; pA = Poly adenylation sequence.

[0060] **Fig. 7** illustrates lentivirus-based miRNA-on switch with a single CMV promoter controlling cargo (mCherry) in frame 0 relative to the ribosomal frame shift motif in U-87 cells. miR-124, but not miR-21, is present in U-87 cells. Abbreviations used in the Figure: P1= Promoter 1; pA = Poly adenylation sequence; SL=stem loop.

[0061] **Fig. 8** illustrates further exemplary gene expression schemes utilizing programmable miRNA-dependent gene expression. Abbreviations used in the Figure: P1= Promoter 1; pA = Poly adenylation sequence; P2= Promoter 2.

[0062] **Figs. 9A-9C** illustrate a miRNA-dependent expression construct developed using a lentivirus delivery platform. Schematic of a plasmid encoding eGFP as two independent exons wherein the intron contains the pre-cursors for either *Homo sapien* miR-21 (hsa-miR-21) or miR-375 (hsa-miR-375) (**Fig. 9A**). Schematic of a lentiviral genome comprising a bi-directional promoter designed to express an EMCV 2A frameshift protein harboring two miR-21 target sites in the 3' UTR and an in-frame mCherry transcript harboring a 5' stem loop (SL) comprising the EMCV programable ribosomal shift (PRS) element (**Fig. 9B**). Fluorescent microscopy images of 293 cells co-transfected with the pLenti-2A-miR-21-PRS-mCherry plasmid and a pcDNA-eGFP construct expressing either miR-21 or miR-375 (**Fig. 9C**). Images were taken at 3 days post treatment. Top panels show mCherry expression and bottom panels show eGFP expression.

[0063] **Figs. 10A-10B** illustrate a miRNA-dependent expression construct developed using a Sendai virus delivery platform. Schematic of an engineered Sendai virus genome encoding microRNA-21 (miR-21)-targeted (miR-21T) transcript encoding the EMCV 2A protein (2A)

and an in-frame mCherry transcript harboring a 5' stem loop (SL) comprising either a functional or mutated (SLmut) version of the EMCV programable ribosomal shift (PRS) element (**Fig. 10A**). Fluorescent microscopy images denoting mCherry expression in wild type Madin-Darby Canine Kidney (MDCK) cells, or a clonal MDCK line in which miR-21 expression was disrupted ($MDCK^{miR\text{-}21\text{-}/\text{-}}$) (**Fig. 10B**). Panels denote cells infected with the recombinant viruses depicted in **Fig. 10A** at a multiplicity of infection of 5 at 48 hours post infection.

[0064] **Figs. 11A-11C** show results of an *in vivo* study using an engineered Sendai virus delivery platform. Schematics of a Sendai virus engineered to express the 2A protein with three miR-503 targets in its 3' UTR (**Fig. 11A**). Red fluorescent protein (RFP) expression analyzed by immunohistochemistry (IHC) (**Fig. 11B**). A volcano plot of differentiated genes from RFP+ cells, showing that two genes, namely AQP5 and SFTPC, were significantly enriched (**Fig. 11C**).

DETAILED DESCRIPTION

[0065] One strategy to restrict expression of RNA- or DNA-based therapies to minimize off-target effects is the exploitation of miRNAs[5-9]. In most eukaryotic organisms, small noncoding RNAs called microRNAs (miRNAs) fine-tune protein expression by engaging mRNAs to induce de-adenylation and/or stall the ribosome during the translation process[10]. This biology orchestrates various developmental processes and is essential for maintaining most cell lineages in the body. In contrast to antiviral RNA interference (RNAi) utilized by plants and arthropods where the small RNA is captured from incoming virus, miRNAs derive from host-encoded RNA hairpins and do not participate in the host defenses[11]. A miRNA is loaded into an RNA-induced silencing complex (RISC) and engages its target mRNAs in a sequence-specific manner. The impact a miRNA has on its cognate host target(s) is determined by the extent of complementarity. Typically, binding of a miRNA to the target mRNA is not contiguous like it is for antiviral RNAi, leading to only moderate changes in target RNA regulation and protein output with levels ranging from 1.1- to 1.5-fold reductions[11]. The modest repression induced by miRNAs do not elicit drastic changes in the cell when measured over days. However, miRNA biology can dramatically influence cellular processes over the course of weeks to months and are ideal modulators of cell development and differentiation. For this reason, most cell lineages harbor a distinct profile of miRNAs although examples of ubiquitous species are also common. As this modest level of repression

is a product of target complementarity, should a miRNA engage an mRNA containing a target with perfect complementarity, the mRNA would be enzymatically cleaved, leading to complete ablation of the message akin to siRNA biology[12]. While this biology does not naturally occur in vertebrates, it can be engineered and applied to both mRNA and vector-based designs to control tropism. Indeed, there are now many reports of successful designs where such strategies have successfully limited the capacity of a given genetic circuit to be silenced in a specific cell lineage or tissue based on the unique expression of a miRNA. Despite the value in excluding expression of a biologic target in unwanted tissues, application of this concept does not enable one to achieve cell-specific expression unless every unwanted cell type both expressed a unique miRNA and a target for each tissue could be incorporated into the asset of interest. This is not possible because the miRNA expression profiles of all cell types are not known and, if this knowledge was obtained, the space constraints to include each target would be prohibitive as cargo capacity in most clinical vectors is finite. As a result, a new strategy for achieving cell-specificity is needed.

[0066] Incorporation of the miRNA-based circuit described herein can ensure that a given mRNA- or vector- based therapeutics delivers its biological payload exclusively to a given cell type of interest. The capacity to achieve this minimizes toxicity and immunogenicity while improving therapeutic outcomes.

Definitions

[0067] The term "microRNA (miRNA) Silencing Element" or "MSE" is used herein to refer to a nucleotide sequence within an mRNA that can bind to a specific miRNA and result in a measurable amount of post-transcriptional silencing of such mRNA (determined, e.g., by a decrease in mRNA and/or protein content). For post-transcriptional silencing to occur, MSE-miRNA sequence complementarity in most cases will include the seed sequence of the miRNA, which is typically comprised of nucleotides 1-7 or 2-8 of the miRNA, and additional complementarity following the seed sequence.

[0068] The term "complementarity" means that a nucleic acid can form hydrogen bond(s) with another nucleic acid sequence by either traditional Watson-Crick or other non-traditional types of interactions such as Wobble-base pairing which permits binding of guanine and uracil. A percent complementarity indicates the percentage of residues in a nucleic acid molecule that can form hydrogen bonds with a second nucleic acid sequence.

[0069] In reference to the nucleic acid molecules of the present disclosure, the binding free energy for a nucleic acid molecule with its complementary sequence is sufficient to allow the

relevant function of the nucleic acid to proceed, e.g., miRNA activity. Determination of binding free energies for nucleic acid molecules is well known in the art (see, e.g., Turner et al., 1987, CSH Symp. Quant. Biol. LII pp. 123-133; Frier et al., 1986, Proc. Nat. Acad. Sci. USA 83:9373-9377; Turner et al., 1987, J Am. Chem. Soc. 109:3783-3785). "Perfectly complementary" means that all the contiguous residues of a nucleic acid sequence will form hydrogen bond(s) with the same number of contiguous residues in a second nucleic acid sequence. In one embodiment, the human miRNA has partial complementarity (i.e., less than 100% complementarity) with the corresponding target nucleic acid molecule.

[0070] The term "ribosomal frameshift stimulator", as used herein, refers to a trans-acting proteinous molecule that can promote a ribosomal frameshift in an mRNA transcript.

[0071] The term "ribosomal frameshift element", as used herein, refers to a cis-acting polynucleotide sequence that can cause a ribosomal frameshift in an mRNA transcript in the presence of a ribosomal frameshift stimulator.

[0072] As used herein, the term "multicellular organism" refers to an individual organism consisting of a plurality of cells (typically, a plurality of cells of different types). Multicellular organisms include animals, plants, fungi, and the like. In some embodiments, animals refer to mammals including humans, veterinary animals (e.g., cats, dogs, cows, horses, sheep, pigs, etc.) and experimental animal models (e.g., mice, rats, monkeys, etc.). In one embodiment, the animal is a human.

[0073] The term "therapeutically effective amount" refers to that quantity of a compound (e.g., polynucleotide, vector) or a pharmaceutical composition comprising such compound that is sufficient to result in a desired activity upon administration to a subject in need thereof. Within the context of the present invention, the term "therapeutically effective" refers to that quantity of a compound or pharmaceutical composition that is sufficient to achieve selective expression of a payload polypeptide in a target cell type or tissue or a cell in a specific state.

[0074] The phrase "pharmaceutically acceptable" refers to molecular entities and compositions that are physiologically tolerable and do not typically produce an allergic or similar untoward reaction, when administered to a mammal (e.g., human). Preferably, as used herein, the term "pharmaceutically acceptable" means approved by a regulatory agency of the Federal or a state government or listed in the U.S. Pharmacopeia or other generally recognized pharmacopeia for use in animals, and more particularly in humans.

[0075] The term "carrier" applied to pharmaceutical compositions of the invention refers to a diluent, excipient, or vehicle with which a compound (e.g., a polynucleotide or vector) is

administered. Such pharmaceutical carriers can be sterile liquids, such as water and oils, including those of petroleum, animal, vegetable or synthetic origin, such as peanut oil, soybean oil, mineral oil, sesame oil and the like. Water or aqueous solution, saline solutions, and aqueous dextrose and glycerol solutions are preferably employed as carriers, particularly for injectable solutions. Suitable pharmaceutical carriers are described in "Remington's Pharmaceutical Sciences" by E. W. Martin, 18th Edition.

[0076] The term "about" or "approximately" means within a statistically meaningful range of a value. Such a range can be within an order of magnitude, preferably within 50%, more preferably within 20%, still more preferably within 10%, and even more preferably within 5% of a given value or range. The allowable variation encompassed by the term "about" or "approximately" depends on the particular system under study, and can be readily appreciated by one of ordinary skill in the art.

[0077] In accordance with the present invention there may be employed conventional molecular biology, microbiology, and recombinant DNA techniques within the skill of the art. Such techniques are explained fully in the literature. See, e.g., Sambrook, Fritsch & Maniatis, Molecular Cloning: A Laboratory Manual, Second Edition. Cold Spring Harbor, N.Y.: Cold Spring Harbor Laboratory Press, 1989 (herein "Sambrook et al., 1989"); DNA Cloning: A Practical Approach, Volumes I and II (D. N. Glover ed. 1985); Oligonucleotide Synthesis (M. J. Gait ed. 1984); Nucleic Acid Hybridization [B. D. Hames & S. J. Higgins eds. (1985)]; Transcription And Translation [B. D. Hames & S. J. Higgins, eds. (1984)]; Animal Cell Culture [R. I. Freshney, ed. (1986)]; Immobilized Cells And Enzymes [IRL Press, (1986)]; B. Perbal, A Practical Guide To Molecular Cloning (1984); Ausubel, F. M. et al. (eds.). Current Protocols in Molecular Biology. John Wiley & Sons, Inc., 1994. These techniques include site directed mutagenesis as described in Kunkel, Proc. Natl. Acad. Sci. USA 82: 488-492 (1985), U.S. Pat. No. 5,071,743, Fukuoka et al., Biochem. Biophys. Res. Commun. 263: 357-360 (1999); Kim and Maas, BioTech. 28: 196-198 (2000); Parikh and Guengerich, BioTech. 24: 4 28-431 (1998); Ray and Nickoloff, BioTech. 13: 342-346 (1992); Wang et al., BioTech. 19: 556-559 (1995); Wang and Malcolm, BioTech. 26: 680-682 (1999); Xu and Gong, BioTech. 26: 639-641 (1999), U.S. Pat. Nos. 5,789,166 and 5,932,419, Hogrefe, Strategies 14. 3: 74-75 (2001), U.S. Pat. Nos. 5,702,931, 5,780,270, and 6,242,222, Angag and Schutz, Biotech. 30: 486-488 (2001), Wang and Wilkinson, Biotech. 29: 976-978 (2000), Kang et al., Biotech. 20: 44-46 (1996), Ogel and McPherson, Protein Engineer. 5: 467-468 (1992), Kirsch and Joly, Nuc. Acids. Res. 26: 1848-1850 (1998), Rhem and Hancock, J. Bacteriol. 178: 3346-3349 (1996), Boles and Miogsa, Curr. Genet. 28: 197-198

(1995), Barrenttino et al., Nuc. Acids. Res. 22: 541-542 (1993), Tessier and Thomas, Meths. Molec. Biol. 57: 229-237, and Pons et al., Meth. Molec. Biol. 67: 209-218.

microRNA (miRNA)-based circuits

[0078] In one aspect, described herein are miRNA-based polynucleotide circuits which can be programmed to express a polypeptide payload in a target cell type or tissue, a cell in a specific state, or a target species.

[0079] In some embodiments, the present disclosure provides a polynucleotide comprising: a) a nucleotide sequence encoding a ribosomal frameshift stimulator; b) one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of the one or more MSE sequences is targeted by a miRNA, and wherein each of the one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the ribosomal frameshift stimulator in the absence of the respective miRNA targeting the MSE sequence; and c) a first ribosomal frameshift element; and d) a nucleotide sequence encoding a first payload polypeptide, wherein the first ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the first payload polypeptide, and wherein translation of the first payload polypeptide is controlled by the first ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator. Optionally, the polynucleotide may further comprise one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, wherein within each combination, the ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the payload polypeptide, wherein translation of each additional payload polypeptide is controlled by its closest 5' ribosomal frameshift element in the resulting mRNA and independently requires either the presence or absence of the ribosomal frameshift stimulator.

[0080] In one embodiment, the present disclosure provides a system comprising: (i) a first polynucleotide comprising a) a nucleotide sequence encoding a ribosomal frameshift stimulator; b) one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of the one or more MSE sequences is targeted by a miRNA, and wherein each of the one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the ribosomal frameshift stimulator in the absence of the respective miRNA targeting the MSE sequence; and (ii) a second polynucleotide comprising c) a first ribosomal frameshift element; and d) a nucleotide sequence encoding a first payload polypeptide, wherein the first ribosomal frameshift element

is positioned 5' to the nucleotide sequence encoding the first payload polypeptide, and wherein translation of the first payload polypeptide is controlled by the first ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator. Optionally, the system further comprises (as part of the second polynucleotide or as one or more additional polynucleotides) one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, wherein within each combination, the ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the payload polypeptide, wherein translation of each additional payload polypeptide is controlled by its closest 5' ribosomal frameshift element in the resulting mRNA and independently requires either the presence or absence of the ribosomal frameshift stimulator.

[0081] miRNAs are small (19-25 bp), non-coding RNA molecules encoded in the genomes of plants and animals. These highly conserved, short RNAs regulate the expression of genes by binding to specific mRNAs in a sequence-specific manner. Canonically, miRNA targeting is reliant on base pairing of the "seed" region which typically is comprised of nucleotides 1–7 or 2-8 of the miRNA to sites in the mRNA 3' untranslated region (3′ UTR). Bartel, Cell 116(2):281 (2004). miRNA regulation moderately affects global protein production resulting in a "fine tuning" of the cellular transcriptome. Baek et al., Nature 455(7209):64 (2008) and Selbach et al., Nature 455(7209):58 (2008).

[0082] Like mRNAs, miRNA expression profiles appear to vary from tissue to tissue but are similar for identical tissues in different individuals (Baskerville and Bartel, 2005). Determining a miRNA with the desired expression profile may be achieved using techniques known to those skilled in the art. For example, the mirVana™ miRNA Probe Set and mirVana™ miRNA Detection Kit available from Thermo Fisher Scientific. may be used to compare the miRNA expression profiles in human tissues according to the manufacturer's instructions. Another common way of identifying tissue-specific miRNAs is using Northern Blot. An example of such a technique is described in Lagos-Quintana M et al, Current Biol (2002) 12:735-739, which is incorporated herein by reference in its entirety. Methods of identifying new miRNAs and their target sequences using a computation approach are disclosed in WO2004/066183 and Brennecke J et al, PLoS Biology (2005) 3(3):0404-0418 (Brennecke et al., 2005), each of which is incorporated herein by reference in its entirety. Once the miRNA has been identified, one can generate an MSE sequence by generating a reverse and complement sequence of the miRNA . In most cases, a MSE sequence should

have at least complementarity to the seed region of the miRNA and additional complementarity following the seed sequence.

[0083] Several hundred miRNAs have been cloned and sequenced from mouse, human, *Drosphila*, C, *elegans* and *Arabidopsis*. Examples of such sequences may be found on microRNA databases, e.g., miRBase (mirbase.org).

[0084] In various embodiments, a polynucleotide molecule of the present disclosure comprises one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of the one or more MSE sequences is targeted by a miRNA. In some embodiments, the polynucleotide comprises two MSE sequences. In some embodiments, the polynucleotide comprises three MSE sequences. In some embodiments, the polynucleotide comprises four MSE sequences. In some embodiments, the polynucleotide comprises five MSE sequences. In some embodiments, the polynucleotide comprises six MSE sequences. In some embodiments, the polynucleotide comprises seven MSE sequences. In some embodiments, the polynucleotide comprises eight MSE sequences. In some embodiments, the polynucleotide comprises nine MSE sequences. In some embodiments, the polynucleotide comprises ten or more MSE sequences.

[0085] In some embodiments, when two or more MSE sequences are present, at least two of these MSE sequences are targeted by the same miRNA. In some embodiments, when two or more MSE sequences are present, at least two of these MSE sequences are targeted by different miRNAs.

[0086] In various embodiments, the one or more MSE sequences are targeted by miRNA(s) which are characterized by tissue-specific, cell type-specific, cell state-specific or species-specific expression.

[0087] As described herein, a tissue-specific, cell type-specific, cell state-specific or species-specific MSE useful in the RNA-based circuits of the present disclosure can be derived from those MSEs that bind, and are post-transcriptionally inhibited by, miRNAs which are expressed at high levels in a particular tissue or cell type, or at a particular cell state, or in a select species, but are not expressed or expressed at very low levels in other tissue or cell types, or other cell states, or in other species. However, in some cases, MSEs that bind, and are post-transcriptionally inhibited by, miRNAs which are expressed at low levels in a particular tissue or cell type, or at a particular cell state, or in a select species may also be useful, for example, for achieving a desired level of expression of a particular payload polypeptide.

[0088] miRNAs that are "highly expressed" or "expressed at high levels" can be detected by standard Northern blot analysis (Pall et al., Nature Protocols 3(6) 1077 (2008)). Preferably, such highly expressed miRNAs represent greater than or equal to 0.1% of the total cellular miRNA found in the tissue or cell of interest as measured by RNA deep sequencing (Hafner et al., Methods 44(1)3 (2008)).

[0089] miRNAs that are "expressed at very low levels" may be undetectable by standard Northern blot analysis. Preferably, such miRNAs expressed at very low levels represent equal to or less than 0.01% of the total cellular miRNA found in the tissue or cell of interest as measured by RNA deep sequencing.

[0090] In some embodiments, the one or more MSE sequences is targeted by miR-1, miR-155, miR-124, miR-182, miR-96, miR-183, miR-21, miR-16, miR-17, miR-19, miR-25, miR-34, miR-92, miR-93, miR-142, miR-222, miR-149, miR-181b-2, or a combination thereof.

[0091] In some embodiments, the one or more MSE sequences is targeted by aae-bantam-5p, aae-let-7, aae-miR-1, aae-miR-10, aae-miR-100, aae-miR-1000, aae-miR-10365, aae-miR-11-3p, aae-miR-11-5p, aae-miR-1174, aae-miR-1175-3p, aae-miR-1175-5p, aae-miR-11893, aae-miR-11894a, aae-miR-11894b, aae-miR-11895, aae-miR-11896, aae-miR-11897a, aae-miR-11897b, aae-miR-11898, aae-miR-11899, aae-miR-11900, aae-miR-11901, aae-miR-11902, aae-miR-11903a, aae-miR-11903b, aae-miR-11904, aae-miR-11905, aae-miR-11906, aae-miR-11907, aae-miR-11908, aae-miR-11909, aae-miR-11910, aae-miR-11911, aae-miR-11912, aae-miR-11913, aae-miR-11914, aae-miR-11915, aae-miR-11916, aae-miR-11917, aae-miR-11918, aae-miR-11919, aae-miR-11920, aae-miR-11921, aae-miR-11922, aae-miR-11923, aae-miR-11924, aae-miR-11925, aae-miR-11926, aae-miR-11927, aae-miR-11928, aae-miR-12-3p, aae-miR-12-5p, aae-miR-124, aae-miR-125-5p, aae-miR-13-3p, aae-miR-13-5p, aae-miR-133, aae-miR-137, aae-miR-14, aae-miR-184, aae-miR-1889-3p, aae-miR-1889-5p, aae-miR-1890, aae-miR-1891, aae-miR-190, aae-miR-193, aae-miR-210, aae-miR-219, aae-miR-252-3p, aae-miR-252-5p, aae-miR-263a-3p, aae-miR-263a-5p, aae-miR-263b-3p, aae-miR-263b-5p, aae-miR-275-3p, aae-miR-275-5p, aae-miR-276-3p, aae-miR-276-5p, aae-miR-2765, aae-miR-277-3p, aae-miR-277-5p, aae-miR-278-3p, aae-miR-278-5p, aae-miR-279, aae-miR-281-3p, aae-miR-281-5p, aae-miR-282-3p, aae-miR-282-5p, aae-miR-283, aae-miR-285, aae-miR-286a, aae-miR-286b, aae-miR-2940-3p, aae-miR-2940-5p, aae-miR-2941, aae-miR-2942, aae-miR-2943, aae-miR-2944a-3p, aae-miR-2944a-5p, aae-miR-2944b-3p, aae-miR-2944b-5p, aae-miR-2945-3p, aae-miR-2945-5p, aae-miR-2946, aae-miR-2a-3p, aae-miR-2a-5p, aae-miR-2b, aae-miR-2c, aae-miR-305-3p, aae-miR-305-5p, aae-miR-306-3p, aae-miR-306-5p, aae-miR-307, aae-miR-308-3p, aae-miR-

308-5p, aae-miR-309a, aae-miR-309b-3p, aae-miR-309b-5p, aae-miR-31, aae-miR-315-3p, aae-miR-315-5p, aae-miR-316, aae-miR-317, aae-miR-33, aae-miR-34-3p, aae-miR-34-5p, aae-miR-375, aae-miR-7, aae-miR-71-3p, aae-miR-71-5p, aae-miR-79-3p, aae-miR-79-5p, aae-miR-8-3p, aae-miR-8-5p, aae-miR-87, aae-miR-927, aae-miR-929, aae-miR-92a-3p, aae-miR-92a-5p, aae-miR-92b-3p, aae-miR-92b-5p, aae-miR-932-3p, aae-miR-932-5p, aae-miR-957, aae-miR-965, aae-miR-970, aae-miR-980-3p, aae-miR-980-5p, aae-miR-981, aae-miR-988-3p, aae-miR-988-5p, aae-miR-989, aae-miR-993, aae-miR-996, aae-miR-998, aae-miR-999, aae-miR-9a, aae-miR-9b, aae-miR-9c-3p, aae-miR-9c-5p, aae-miR-iab-4-3p, aae-miR-iab-4-5p, aau-miR160, aau-miR162, aau-miR168, aau-miR172, aau-miR2086, aau-miR319, aau-miR396, abu-let-7a, abu-let-7b, abu-let-7c, abu-let-7d, abu-let-7e, abu-let-7f, abu-let-7g, abu-let-7h, abu-let-7i, abu-miR-1, abu-miR-100, abu-miR-101a, abu-miR-101b, abu-miR-103, abu-miR-10543, abu-miR-10544, abu-miR-10545-3p, abu-miR-10545-5p, abu-miR-10546, abu-miR-10547, abu-miR-10548-3p, abu-miR-10548-5p, abu-miR-10549, abu-miR-10550-3p, abu-miR-10550-5p, abu-miR-10551, abu-miR-10552, abu-miR-10553, abu-miR-10554, abu-miR-10555, abu-miR-10556a, abu-miR-10556b, abu-miR-10557, abu-miR-10558, abu-miR-10559, abu-miR-10560, abu-miR-10561, abu-miR-10562, abu-miR-10563, abu-miR-10564, abu-miR-10565, abu-miR-106, abu-miR-107, abu-miR-10a, abu-miR-10b, abu-miR-10c, abu-miR-10d, abu-miR-122, abu-miR-124, abu-miR-125a, abu-miR-125b, abu-miR-126-3p, abu-miR-126-5p, abu-miR-128, abu-miR-129, abu-miR-130, abu-miR-132-3p, abu-miR-132-5p, abu-miR-133a, abu-miR-133b, abu-miR-135a-3p, abu-miR-135a-5p, abu-miR-135b, abu-miR-135c-3p, abu-miR-135c-5p, abu-miR-135d, abu-miR-137, abu-miR-138, abu-miR-1388, abu-miR-139, abu-miR-140, abu-miR-142-3p, abu-miR-142-5p, abu-miR-143, abu-miR-144, abu-miR-145, abu-miR-146, abu-miR-147, abu-miR-148a-3p, abu-miR-148a-5p, abu-miR-148b, abu-miR-150, abu-miR-152, abu-miR-153a, abu-miR-153b, abu-miR-153c, abu-miR-155, abu-miR-15a, abu-miR-15b, abu-miR-15c-3p, abu-miR-15c-5p, abu-miR-16a, abu-miR-16b, abu-miR-16c, abu-miR-17, abu-miR-1788, abu-miR-181a, abu-miR-181b, abu-miR-181c, abu-miR-182, abu-miR-183, abu-miR-184a, abu-miR-184b, abu-miR-187, abu-miR-18a, abu-miR-18b, abu-miR-190a-3p, abu-miR-190a-5p, abu-miR-190b, abu-miR-192, abu-miR-193-3p, abu-miR-193-5p, abu-miR-194a, abu-miR-194b, abu-miR-196a, abu-miR-196b, abu-miR-199-3p, abu-miR-199-5p, abu-miR-19a, abu-miR-19b, abu-miR-19c, abu-miR-19d, abu-miR-200a, abu-miR-200b, abu-miR-202, abu-miR-203, abu-miR-204, abu-miR-205, abu-miR-206, abu-miR-20a, abu-miR-20b, abu-miR-21, abu-miR-210, abu-miR-212-3p, abu-miR-214, abu-miR-216a, abu-miR-216b, abu-miR-2187a, abu-miR-2187b-3p, abu-miR-2187b-5p, abu-miR-2188, abu-miR-218a, abu-miR-218b, abu-

miR-219-5p, abu-miR-221, abu-miR-222, abu-miR-22a, abu-miR-22b, abu-miR-22c, abu-miR-23a, abu-miR-23b, abu-miR-23c, abu-miR-24a, abu-miR-24b-3p, abu-miR-24b-5p, abu-miR-24c, abu-miR-25, abu-miR-26a, abu-miR-26b, abu-miR-27a, abu-miR-27b, abu-miR-27c, abu-miR-27d-3p, abu-miR-27d-5p, abu-miR-27e, abu-miR-29a, abu-miR-29b, abu-miR-29c-3p, abu-miR-29c-5p, abu-miR-29d, abu-miR-301a, abu-miR-301b, abu-miR-30a-3p, abu-miR-30a-5p, abu-miR-30b, abu-miR-30c, abu-miR-30d, abu-miR-31, abu-miR-3120, abu-miR-33-5p, abu-miR-338, abu-miR-34, abu-miR-365, abu-miR-375, abu-miR-429b, abu-miR-430, abu-miR-449a, abu-miR-449b-3p, abu-miR-449b-5p, abu-miR-451, abu-miR-454b, abu-miR-455, abu-miR-456, abu-miR-457, abu-miR-458, abu-miR-460, abu-miR-462, abu-miR-489, abu-miR-499, abu-miR-551, abu-miR-7, abu-miR-7132a-3p, abu-miR-7132a-5p, abu-miR-7132b-3p, abu-miR-7132b-5p, abu-miR-7133-3p, abu-miR-7133-5p, abu-miR-7147, abu-miR-722, abu-miR-723a, abu-miR-723b, abu-miR-724, abu-miR-725, abu-miR-726, abu-miR-727a-5p, abu-miR-727b-3p, abu-miR-728a, abu-miR-728b, abu-miR-729, abu-miR-730, abu-miR-731-3p, abu-miR-731-5p, abu-miR-734, abu-miR-736, abu-miR-737, abu-miR-7552, abu-miR-8160a, abu-miR-8160b, abu-miR-9-3p, abu-miR-9-5p, abu-miR-92a, abu-miR-92b, abu-miR-93, abu-miR-96, abu-miR-99a, abu-miR-99b, aca-let-7a-2-3p, aca-let-7a-3-3p, aca-let-7a-3p, aca-let-7a-5p, aca-let-7b-3p, aca-let-7b-5p, aca-let-7c-1-3p, aca-let-7c-2-3p, aca-let-7c-3-3p, aca-let-7c-5p, aca-let-7d-3p, aca-let-7d-5p, aca-let-7e-3p, aca-let-7e-5p, aca-let-7f-1-3p, aca-let-7f-2-3p, aca-let-7f-5p, aca-let-7g, aca-let-7i-3p, aca-let-7i-5p, aca-miR-100, aca-miR-101-1-5p, aca-miR-101-2-5p, aca-miR-101-3p, aca-miR-103-3p, aca-miR-103-5p, aca-miR-106-3p, aca-miR-106-5p, aca-miR-107-3p, aca-miR-107-5p, aca-miR-10a-3p, aca-miR-10a-5p, aca-miR-10b-3p, aca-miR-10b-5p, aca-miR-10c-3p, aca-miR-10c-5p, aca-miR-122-3p, aca-miR-122-5p, aca-miR-124a, aca-miR-124b, aca-miR-125a-3p, aca-miR-125a-5p, aca-miR-125b, aca-miR-126-3p, aca-miR-126-5p, aca-miR-128-3p, aca-miR-128-5p, aca-miR-129a-3p, aca-miR-129a-5p, aca-miR-129b-3p, aca-miR-129b-5p, aca-miR-1306, aca-miR-130a-1-5p, aca-miR-130a-2-5p, aca-miR-130a-3p, aca-miR-130b-3p, aca-miR-130b-5p, aca-miR-130c, aca-miR-132-3p, aca-miR-132-5p, aca-miR-1329-3p, aca-miR-1329-5p, aca-miR-133a, aca-miR-133a-3p, aca-miR-133b-3p, aca-miR-133b-5p, aca-miR-135-1-3p, aca-miR-135-2-3p, aca-miR-135-3-3p, aca-miR-135-5p, aca-miR-137a, aca-miR-137b-3p, aca-miR-137b-5p, aca-miR-138-1-3p, aca-miR-138-2-3p, aca-miR-138-5p, aca-miR-1388-3p, aca-miR-1388-5p, aca-miR-139-3p, aca-miR-139-5p, aca-miR-1397, aca-miR-140-3p, aca-miR-140-5p, aca-miR-142-3p, aca-miR-142-5p, aca-miR-143-3p, aca-miR-143-5p, aca-miR-144-3p, aca-miR-144-5p, aca-miR-145-3p, aca-miR-145-5p, aca-miR-146a-3p, aca-miR-146a-5p, aca-miR-146b-3p, aca-miR-146b-5p, aca-miR-147,

aca-miR-148a-3p, aca-miR-148a-5p, aca-miR-148b-3p, aca-miR-148b-5p, aca-miR-150-3p, aca-miR-150-5p, aca-miR-153-3p, aca-miR-153-5p, aca-miR-155-3p, aca-miR-155-5p, aca-miR-15a-3p, aca-miR-15a-5p, aca-miR-15b-3p, aca-miR-15b-5p, aca-miR-1641-5p, aca-miR-1662-3p, aca-miR-1662-5p, aca-miR-1677a, aca-miR-1677b-3p, aca-miR-1677b-5p, aca-miR-16a-3p, aca-miR-16a-5p, aca-miR-16b-3p, aca-miR-16b-5p, aca-miR-17-3p, aca-miR-17-5p, aca-miR-1788-3p, aca-miR-1788-5p, aca-miR-1805-3p, aca-miR-1805-5p, aca-miR-181a, aca-miR-181b, aca-miR-181c-5p, aca-miR-182-3p, aca-miR-182-5p, aca-miR-184-3p, aca-miR-184-5p, aca-miR-187-3p, aca-miR-187-5p, aca-miR-18a-3p, aca-miR-18a-5p, aca-miR-18b-3p, aca-miR-18b-5p, aca-miR-190a-3p, aca-miR-190a-5p, aca-miR-190b, aca-miR-191-3p, aca-miR-191-5p, aca-miR-193-3p, aca-miR-193-5p, aca-miR-194-1-3p, aca-miR-194-2-3p, aca-miR-194-5p, aca-miR-196a, aca-miR-196c-3p, aca-miR-196c-5p, aca-miR-199a-5p, aca-miR-199b-5p, aca-miR-19a-3p, aca-miR-19a-5p, aca-miR-19b, aca-miR-19c-3p, aca-miR-1a-1-5p, aca-miR-1a-2-5p, aca-miR-1a-3p, aca-miR-1b-3p, aca-miR-1b-5p, aca-miR-200a-3p, aca-miR-200a-5p, aca-miR-200b-3p, aca-miR-200b-5p, aca-miR-202-3p.1, aca-miR-202-5p, aca-miR-202-5p.2, aca-miR-203-3p, aca-miR-203-5p, aca-miR-204a-3p, aca-miR-204a-5p, aca-miR-205a, aca-miR-205b, aca-miR-206-3p, aca-miR-206-5p, aca-miR-208-3p, aca-miR-208-5p, aca-miR-20a-3p, aca-miR-20a-5p, aca-miR-20b-3p, aca-miR-20b-5p, aca-miR-21-3p, aca-miR-21-5p, aca-miR-210-3p, aca-miR-210-5p, aca-miR-212-3p, aca-miR-212-5p, aca-miR-214-3p, aca-miR-214-5p, aca-miR-215-3p, aca-miR-215-5p, aca-miR-216a, aca-miR-216b-3p, aca-miR-216b-5p, aca-miR-217-3p, aca-miR-217-5p, aca-miR-218-3p, aca-miR-218-5p, aca-miR-2188-3p, aca-miR-2188-5p, aca-miR-219-1-3p, aca-miR-219-2-3p, aca-miR-219-5p, aca-miR-22-3p, aca-miR-22-5p, aca-miR-221-3p, aca-miR-221-5p, aca-miR-222a-3p, aca-miR-222a-5p, aca-miR-222b-3p, aca-miR-222b-5p, aca-miR-223-3p, aca-miR-223-5p, aca-miR-23a-3p, aca-miR-23a-5p, aca-miR-23b-3p, aca-miR-23b-5p, aca-miR-24-1-5p, aca-miR-24-2-5p, aca-miR-24-3p, aca-miR-26-1-3p, aca-miR-26-2-3p, aca-miR-26-3-5p, aca-miR-26-3p, aca-miR-26-5p, aca-miR-27a-3p, aca-miR-27a-5p, aca-miR-27b-3p, aca-miR-27b-5p, aca-miR-2970-3p, aca-miR-2970-5p, aca-miR-29a-1-5p, aca-miR-29a-2-5p, aca-miR-29a-3p, aca-miR-29b, aca-miR-301a-3p, aca-miR-301a-5p, aca-miR-301b-3p, aca-miR-301b-5p, aca-miR-302a-3p, aca-miR-302b, aca-miR-30a-3p, aca-miR-30a-5p, aca-miR-30b-3p, aca-miR-30b-5p, aca-miR-30c-2-3p, aca-miR-30c-3p, aca-miR-30c-5p, aca-miR-30d-3p, aca-miR-30d-5p, aca-miR-30e-3p, aca-miR-30e-5p, aca-miR-31-3p, aca-miR-31-5p, aca-miR-32-3p, aca-miR-32-5p, aca-miR-33-1-3p, aca-miR-33-2-3p, aca-miR-33-5p, aca-miR-338-3p, aca-miR-338-5p, aca-miR-34a-3p, aca-miR-34a-5p, aca-miR-34b-3p, aca-miR-34b-5p, aca-miR-34c-3p, aca-miR-34c-5p, aca-miR-363-3p, aca-miR-

363-5p, aca-miR-365-3p, aca-miR-365-5p, aca-miR-367, aca-miR-375-3p, aca-miR-375-5p, aca-miR-383-3p, aca-miR-383-5p, aca-miR-425-3p, aca-miR-425-5p, aca-miR-429-3p, aca-miR-429-5p, aca-miR-449a, aca-miR-449b, aca-miR-449c-3p, aca-miR-449c-5p, aca-miR-451-3p, aca-miR-451-5p, aca-miR-454-3p, aca-miR-454-5p, aca-miR-455-3p, aca-miR-455-5p, aca-miR-456, aca-miR-457-3p, aca-miR-457-5p, aca-miR-458, aca-miR-460a-3p, aca-miR-460a-5p, aca-miR-460b-3p, aca-miR-460b-5p, aca-miR-489-3p, aca-miR-489-5p, aca-miR-490-3p, aca-miR-490-5p, aca-miR-497-3p, aca-miR-497-5p, aca-miR-499-3p, aca-miR-499-5p, aca-miR-5390, aca-miR-5391, aca-miR-5392, aca-miR-5393, aca-miR-5394-3p, aca-miR-5394-5p, aca-miR-5395, aca-miR-5396a, aca-miR-5396b-3p, aca-miR-5396b-5p, aca-miR-5397-3p, aca-miR-5397-5p, aca-miR-5398-3p, aca-miR-5398-5p, aca-miR-5399-3p, aca-miR-5399-5p, aca-miR-5400, aca-miR-5401, aca-miR-5402-3p, aca-miR-5402-5p, aca-miR-5403, aca-miR-5404, aca-miR-5405-3p, aca-miR-5405-5p, aca-miR-5406-3p, aca-miR-5406-5p, aca-miR-5407-3p, aca-miR-5407-5p, aca-miR-5408a-3p, aca-miR-5408a-5p, aca-miR-5408b, aca-miR-5408c-3p, aca-miR-5408c-5p, aca-miR-5409, aca-miR-5410-3p, aca-miR-5410-5p, aca-miR-5411, aca-miR-5412-3p, aca-miR-5412-5p, aca-miR-5413-3p, aca-miR-5413-5p, aca-miR-5414, aca-miR-5415, aca-miR-5416, aca-miR-5417, aca-miR-5418, aca-miR-5419, aca-miR-5420, aca-miR-5421, aca-miR-5422, aca-miR-5423, aca-miR-5424, aca-miR-5425, aca-miR-5426-3p, aca-miR-5426-5p, aca-miR-5427, aca-miR-5428, aca-miR-5429, aca-miR-5430, aca-miR-5431, aca-miR-5432, aca-miR-5433, aca-miR-5434, aca-miR-5435a, aca-miR-5435b-3p, aca-miR-5435b-5p, aca-miR-5435c-3p, aca-miR-5435c-5p, aca-miR-5436-3p, aca-miR-5436-5p, aca-miR-5437, aca-miR-5438, aca-miR-5439, aca-miR-5440, aca-miR-5441, aca-miR-5442, aca-miR-5443, aca-miR-5444a, aca-miR-5444b, aca-miR-5445, aca-miR-5446, aca-miR-5447, aca-miR-5448, aca-miR-5449, aca-miR-5450, aca-miR-5451, aca-miR-5452-3p, aca-miR-5452-5p, aca-miR-5453, aca-miR-5454, aca-miR-5455-3p, aca-miR-5455-5p, aca-miR-5456, aca-miR-5457, aca-miR-5458, aca-miR-5459, aca-miR-5460, aca-miR-5461, aca-miR-5462, aca-miR-5463, aca-miR-5464-3p, aca-miR-5464-5p, aca-miR-5465, aca-miR-5466, aca-miR-5467, aca-miR-5468, aca-miR-5469, aca-miR-5470, aca-miR-551, aca-miR-7-1-3p, aca-miR-7-2-3p, aca-miR-7-5p, aca-miR-726, aca-miR-727-3p, aca-miR-727-5p, aca-miR-737-3p, aca-miR-737-5p, aca-miR-875, aca-miR-9-1-3p, aca-miR-9-3-3p, aca-miR-9-5p, aca-miR-92a, aca-miR-9572-3p, aca-miR-9572-5p, aca-miR-9573-3p, aca-miR-9573-5p, aca-miR-9574-3p, aca-miR-9574-5p, aca-miR-9575-3p, aca-miR-9575-5p, aca-miR-9576-3p, aca-miR-9576-5p, aca-miR-9577-3p, aca-miR-9577-5p, aca-miR-98-3p, aca-miR-98-5p, aca-miR-99a-3p, aca-miR-99a-5p, aca-miR-99b-3p, aca-miR-99b-5p, aga-bantam, aga-let-7, aga-miR-1, aga-miR-10, aga-miR-100, aga-miR-1000,

aga-miR-10355-3p, aga-miR-10355-5p, aga-miR-10356-3p, aga-miR-10356-5p, aga-miR-10357-3p, aga-miR-10357-5p, aga-miR-10358-3p, aga-miR-10358-5p, aga-miR-10359-3p, aga-miR-10359-5p, aga-miR-10360-3p, aga-miR-10360-5p, aga-miR-10361a-3p, aga-miR-10361a-5p, aga-miR-10361b-3p, aga-miR-10361b-5p, aga-miR-10362-3p, aga-miR-10362-5p, aga-miR-10363-3p, aga-miR-10363-5p, aga-miR-10364-3p, aga-miR-10364-5p, aga-miR-10365-3p, aga-miR-10365-5p, aga-miR-10366a-2-5p, aga-miR-10366a-3p, aga-miR-10366a-5p, aga-miR-10366b-3p, aga-miR-10366b-5p, aga-miR-10367-3p, aga-miR-10367-5p, aga-miR-10368-3p, aga-miR-10368-5p, aga-miR-10369-3p, aga-miR-10369-5p, aga-miR-10370-2-5p, aga-miR-10370-3p, aga-miR-10370-5p, aga-miR-10371-3p, aga-miR-10371-5p, aga-miR-10372a-3p, aga-miR-10372a-5p, aga-miR-10372b-3p, aga-miR-10372b-5p, aga-miR-10373-3p, aga-miR-10373-5p, aga-miR-10374-3p, aga-miR-10375a-3p, aga-miR-10375a-5p, aga-miR-10375b-3p, aga-miR-10375b-5p, aga-miR-10376-3p, aga-miR-10376-5p, aga-miR-10377a-3p, aga-miR-10377a-5p, aga-miR-10377b-3p, aga-miR-10377b-5p, aga-miR-10378-3p, aga-miR-10378-5p, aga-miR-10379-3p, aga-miR-10379-5p, aga-miR-10380-3p, aga-miR-10380-5p, aga-miR-10381-5p, aga-miR-11, aga-miR-1174, aga-miR-1175, aga-miR-12, aga-miR-124, aga-miR-12413-3p, aga-miR-12414-3p, aga-miR-12415-3p, aga-miR-12416-3p, aga-miR-12417-5p, aga-miR-12418-3p, aga-miR-12419-5p, aga-miR-125, aga-miR-133, aga-miR-137, aga-miR-13b, aga-miR-14, aga-miR-184, aga-miR-1889, aga-miR-1890, aga-miR-1891, aga-miR-190, aga-miR-2, aga-miR-210, aga-miR-219, aga-miR-263a, aga-miR-263b, aga-miR-275, aga-miR-276-3p, aga-miR-276-5p, aga-miR-277, aga-miR-278, aga-miR-279, aga-miR-2796-3p, aga-miR-2796-5p, aga-miR-281, aga-miR-282, aga-miR-283, aga-miR-285-3p, aga-miR-285-5p, aga-miR-286, aga-miR-286b-3p, aga-miR-286b-5p, aga-miR-2944a-3p, aga-miR-2944a-5p, aga-miR-2944b-3p, aga-miR-2944b-5p, aga-miR-2945-3p, aga-miR-2945-5p, aga-miR-2b-3p, aga-miR-2b-5p, aga-miR-2c-3p, aga-miR-2c-5p, aga-miR-305, aga-miR-306, aga-miR-307, aga-miR-308, aga-miR-309, aga-miR-31-3p, aga-miR-31-5p, aga-miR-315, aga-miR-317, aga-miR-33-3p, aga-miR-33-5p, aga-miR-34, aga-miR-375, aga-miR-7, aga-miR-79, aga-miR-8, aga-miR-87, aga-miR-927, aga-miR-929, aga-miR-92a, aga-miR-92b, aga-miR-932-3p, aga-miR-932-5p, aga-miR-957, aga-miR-965-3p, aga-miR-965-5p, aga-miR-970, aga-miR-980-3p, aga-miR-980-5p, aga-miR-981, aga-miR-988, aga-miR-989, aga-miR-993, aga-miR-996, aga-miR-998-3p, aga-miR-998-5p, aga-miR-9a, aga-miR-9b, aga-miR-9c, aga-miR-iab-4, age-miR-100, age-miR-101, age-miR-103, age-miR-106a, age-miR-106b, age-miR-10a, age-miR-124a, age-miR-125b, age-miR-127, age-miR-128, age-miR-133a, age-miR-135, age-miR-15a, age-miR-15b, age-miR-16, age-miR-17-3p, age-miR-17-5p, age-miR-18, age-miR-194,

age-miR-196, age-miR-197, age-miR-198, age-miR-19a, age-miR-19b, age-miR-20, age-miR-205, age-miR-21, age-miR-214, age-miR-218, age-miR-22, age-miR-222, age-miR-23a, age-miR-27a, age-miR-28, age-miR-29a, age-miR-29b, age-miR-30b, age-miR-34a, age-miR-506, age-miR-507, age-miR-508, age-miR-509a, age-miR-509b, age-miR-510, age-miR-513a, age-miR-513b, age-miR-513c, age-miR-513d, age-miR-513e, age-miR-514, age-miR-9, age-miR-92, age-miR-93, age-miR-98, ahy-miR156a, ahy-miR156b-3p, ahy-miR156b-5p, ahy-miR156c, ahy-miR159, ahy-miR160-3p, ahy-miR160-5p, ahy-miR167-3p, ahy-miR167-5p, ahy-miR3508, ahy-miR3509-3p, ahy-miR3509-5p, ahy-miR3510, ahy-miR3511-3p, ahy-miR3511-5p, ahy-miR3512, ahy-miR3513-3p, ahy-miR3513-5p, ahy-miR3514-3p, ahy-miR3514-5p, ahy-miR3515, ahy-miR3516, ahy-miR3517, ahy-miR3518, ahy-miR3519, ahy-miR3520-3p, ahy-miR3520-5p, ahy-miR3521, ahy-miR394, ahy-miR398, ahy-miR408-3p, ahy-miR408-5p, aja-let-7i, aja-miR-142, aja-miR-143, aja-miR-144, aja-miR-145, aja-miR-1893, aja-miR-21, aja-miR-214, aja-miR-22, aja-miR-25, aja-miR-29b, aja-miR-29c, aja-miR-3074, aja-miR-3120, aja-miR-331, aja-miR-3596, aja-miR-3618, aja-miR-671, aja-miR-7, aly-miR156a-3p, aly-miR156a-5p, aly-miR156b-3p, aly-miR156b-5p, aly-miR156c-3p, aly-miR156c-5p, aly-miR156d-3p, aly-miR156d-5p, aly-miR156e-3p, aly-miR156e-5p, aly-miR156f-3p, aly-miR156f-5p, aly-miR156g-3p, aly-miR156g-5p, aly-miR156h-3p, aly-miR156h-5p, aly-miR157a-3p, aly-miR157a-5p, aly-miR157b-3p, aly-miR157b-5p, aly-miR157c-3p, aly-miR157c-5p, aly-miR157d-3p, aly-miR157d-5p, aly-miR158a-3p, aly-miR158a-5p, aly-miR158b-3p, aly-miR158b-5p, aly-miR159a-3p, aly-miR159a-5p, aly-miR159b-3p, aly-miR159b-5p, aly-miR159c-3p, aly-miR159c-5p, aly-miR160a-3p, aly-miR160a-5p, aly-miR160b-3p, aly-miR160b-5p, aly-miR160c-3p, aly-miR160c-5p, aly-miR161-3p.1, aly-miR161-3p.2, aly-miR161-5p.1, aly-miR161-5p.2, aly-miR162a-3p, aly-miR162a-5p, aly-miR162b-3p, aly-miR162b-5p, aly-miR163-3p.1, aly-miR163-3p.2, aly-miR163-5p.1, aly-miR163-5p.2, aly-miR164a-3p, aly-miR164a-5p, aly-miR164b-3p, aly-miR164b-5p, aly-miR164c-3p, aly-miR164c-5p, aly-miR165a-3p, aly-miR165a-5p, aly-miR165b-3p, aly-miR165b-5p, aly-miR166a-3p, aly-miR166a-5p, aly-miR166b-3p, aly-miR166b-5p, aly-miR166c-3p, aly-miR166c-5p, aly-miR166d-3p, aly-miR166d-5p, aly-miR166e-3p, aly-miR166e-5p, aly-miR166f-3p, aly-miR166f-5p, aly-miR166g-3p, aly-miR166g-5p, aly-miR166h-3p, aly-miR166h-5p, aly-miR167a-3p, aly-miR167a-5p, aly-miR167b-3p, aly-miR167b-5p, aly-miR167c-3p, aly-miR167c-5p, aly-miR167d-3p, aly-miR167d-5p, aly-miR168a-3p, aly-miR168a-5p, aly-miR168b-3p, aly-miR168b-5p, aly-miR169a-3p, aly-miR169a-5p, aly-miR169b-3p, aly-miR169b-5p, aly-miR169c-3p, aly-miR169c-5p, aly-miR169d-3p, aly-miR169d-5p, aly-miR169e-3p, aly-

miR169e-5p, aly-miR169f-3p, aly-miR169f-5p, aly-miR169g-3p, aly-miR169g-5p, aly-miR169h-3p, aly-miR169h-5p, aly-miR169i-3p, aly-miR169i-5p, aly-miR169j-3p, aly-miR169j-5p, aly-miR169k-3p, aly-miR169k-5p, aly-miR169l-3p, aly-miR169l-5p, aly-miR169m-3p, aly-miR169m-5p, aly-miR169n-3p, aly-miR169n-5p, aly-miR170-3p, aly-miR170-5p, aly-miR171a-3p, aly-miR171a-5p, aly-miR171b-3p, aly-miR171b-5p, aly-miR171c-3p, aly-miR171c-5p, aly-miR172a-3p, aly-miR172a-5p, aly-miR172b-3p, aly-miR172b-5p, aly-miR172c-3p, aly-miR172c-5p, aly-miR172d-3p, aly-miR172d-5p, aly-miR172e-3p, aly-miR172e-5p, aly-miR172f-3p, aly-miR172f-5p, aly-miR173a-3p, aly-miR173a-5p, aly-miR173b-3p, aly-miR173b-5p, aly-miR1887, aly-miR2111a-3p, aly-miR2111a-5p, aly-miR2111b-3p, aly-miR2111b-5p, aly-miR2111c-3p, aly-miR2111c-5p, aly-miR2112-3p, aly-miR2112-5p, aly-miR319a-3p, aly-miR319a-5p, aly-miR319b-3p, aly-miR319b-5p, aly-miR319c-3p, aly-miR319c-5p, aly-miR319d-3p, aly-miR319d-5p, aly-miR3433-3p, aly-miR3433-5p, aly-miR3434-3p, aly-miR3434-5p, aly-miR3435-3p, aly-miR3435-5p, aly-miR3436-3p, aly-miR3436-5p, aly-miR3437-3p, aly-miR3437-5p, aly-miR3438-3p, aly-miR3438-5p, aly-miR3439-3p, aly-miR3439-5p, aly-miR3440-3p, aly-miR3440-5p, aly-miR3441-3p.1, aly-miR3441-3p.2, aly-miR3441-5p.1, aly-miR3441-5p.2, aly-miR3442-3p, aly-miR3442-5p, aly-miR3443-3p, aly-miR3443-5p, aly-miR3444a-3p, aly-miR3444a-5p, aly-miR3444b, aly-miR3445-3p.1, aly-miR3445-3p.2, aly-miR3445-5p.1, aly-miR3445-5p.2, aly-miR3446-3p, aly-miR3446-5p, aly-miR3447-3p, aly-miR3447-5p, aly-miR3448-3p, aly-miR3448-5p, aly-miR3449-3p, aly-miR3449-5p, aly-miR390a-3p, aly-miR390a-5p, aly-miR390b-3p, aly-miR390b-5p, aly-miR391-3p, aly-miR391-5p, aly-miR393a-3p, aly-miR393a-5p, aly-miR393b-3p, aly-miR393b-5p, aly-miR394a-3p, aly-miR394a-5p, aly-miR394b-3p, aly-miR394b-5p, aly-miR395b-3p, aly-miR395b-5p, aly-miR395c-3p, aly-miR395c-5p, aly-miR395d-3p, aly-miR395d-5p, aly-miR395e-3p, aly-miR395e-5p, aly-miR395f-3p, aly-miR395f-5p, aly-miR395g-3p, aly-miR395g-5p, aly-miR395h-3p, aly-miR395h-5p, aly-miR395i, aly-miR396a-3p, aly-miR396a-5p, aly-miR396b-3p, aly-miR396b-5p, aly-miR397a-3p, aly-miR397a-5p, aly-miR397b-3p, aly-miR397b-5p, aly-miR398a-3p, aly-miR398a-5p, aly-miR398b-3p, aly-miR398b-5p, aly-miR398c-3p, aly-miR398c-5p, aly-miR399a-3p, aly-miR399a-5p, aly-miR399b-3p, aly-miR399b-5p, aly-miR399c-3p, aly-miR399c-5p, aly-miR399d-3p, aly-miR399d-5p, aly-miR399e-3p, aly-miR399e-5p, aly-miR399f-3p, aly-miR399f-5p, aly-miR399g-3p, aly-miR399g-5p, aly-miR399h-3p, aly-miR399h-5p, aly-miR399i-3p, aly-miR399i-5p, aly-miR400-3p, aly-miR400-5p, aly-miR402-3p, aly-miR402-5p, aly-miR403a-3p, aly-miR403a-5p, aly-miR403b-3p, aly-miR403b-5p, aly-miR408-3p, aly-miR408-5p, aly-miR4221, aly-

miR4222, aly-miR4223, aly-miR4224, aly-miR4225, aly-miR4226, aly-miR4227, aly-miR4228, aly-miR4229, aly-miR4230, aly-miR4231, aly-miR4232, aly-miR4233, aly-miR4234, aly-miR4235, aly-miR4236, aly-miR4237, aly-miR4238, aly-miR4239, aly-miR4240, aly-miR4241, aly-miR4242, aly-miR4243, aly-miR4244, aly-miR4245, aly-miR4246, aly-miR4247, aly-miR4248a, aly-miR4248b, aly-miR4248c, aly-miR4249, aly-miR4250, aly-miR472-3p, aly-miR472-5p, aly-miR771-3p, aly-miR771-5p, aly-miR773b-3p, aly-miR773b-5p, aly-miR774a-3p.1, aly-miR774a-3p.2, aly-miR774a-5p.1, aly-miR774a-5p.2, aly-miR774b-3p, aly-miR774b-5p, aly-miR781-3p, aly-miR781-5p, aly-miR822-3p, aly-miR822-5p, aly-miR823-3p, aly-miR823-5p, aly-miR824-3p, aly-miR824-5p, aly-miR825-3p, aly-miR825-5p, aly-miR827-3p, aly-miR827-5p, aly-miR828-3p, aly-miR828-5p, aly-miR829-3p, aly-miR829-5p, aly-miR831-3p, aly-miR831-5p, aly-miR833-3p, aly-miR833-5p, aly-miR834-3p, aly-miR834-5p, aly-miR835-3p, aly-miR835-5p, aly-miR837-3p, aly-miR837-5p, aly-miR838-3p, aly-miR838-5p, aly-miR839-3p, aly-miR839-5p, aly-miR840-3p, aly-miR840-5p, aly-miR841, aly-miR842-3p, aly-miR842-5p, aly-miR844-3p, aly-miR844-5p, aly-miR845a-3p, aly-miR845a-5p, aly-miR845b-3p, aly-miR845b-5p, aly-miR846-3p, aly-miR846-5p, aly-miR847-3p, aly-miR847-5p, aly-miR848-3p, aly-miR848-5p, aly-miR851-3p, aly-miR851-5p, aly-miR852-3p, aly-miR852-5p, aly-miR853-3p, aly-miR853-5p, aly-miR856-3p, aly-miR856-5p, aly-miR857-3p, aly-miR857-5p, aly-miR858-3p, aly-miR858-5p, aly-miR859-3p, aly-miR859-5p, aly-miR860-3p, aly-miR860-5p, aly-miR861-3p, aly-miR861-5p, aly-miR862-3p, aly-miR862-5p, aly-miR868-3p, aly-miR868-5p, aly-miR869-3p, aly-miR869-5p, ama-miR156, ama-miR396-3p, ama-miR396-5p, ame-bantam-3p, ame-let-7-5p, ame-miR-1-3p, ame-miR-10-5p, ame-miR-100-5p, ame-miR-1000-5p, ame-miR-1006-3p, ame-miR-11-3p, ame-miR-1175-3p, ame-miR-12-5p, ame-miR-124-3p, ame-miR-125-5p, ame-miR-133-3p, ame-miR-137-3p, ame-miR-13a-3p, ame-miR-13b-3p, ame-miR-14-3p, ame-miR-184-3p, ame-miR-190-5p, ame-miR-193-3p, ame-miR-2-3p, ame-miR-210-3p, ame-miR-219-5p, ame-miR-252a-5p, ame-miR-252b-5p, ame-miR-263a-5p, ame-miR-263b-5p, ame-miR-275-3p, ame-miR-276-3p, ame-miR-2765-3p, ame-miR-2765-5p, ame-miR-277-3p, ame-miR-278-3p, ame-miR-2788-3p, ame-miR-2796-3p, ame-miR-279a-3p, ame-miR-279b-3p, ame-miR-279c-3p, ame-miR-279d-3p, ame-miR-281-3p, ame-miR-282-5p, ame-miR-283-5p, ame-miR-2944-3p, ame-miR-29b-3p, ame-miR-2b-5p, ame-miR-3049-3p, ame-miR-3049-5p, ame-miR-305-5p, ame-miR-306-5p, ame-miR-307-3p, ame-miR-315-5p, ame-miR-316-5p, ame-miR-317-3p, ame-miR-318-3p, ame-miR-31a-5p, ame-miR-33-5p, ame-miR-34-5p, ame-miR-3477-5p, ame-miR-3478-3p, ame-miR-3715-5p, ame-miR-3716a-3p, ame-miR-3716b-3p, ame-miR-3717-5p, ame-miR-3718a-3p, ame-

miR-3718b-5p, ame-miR-3718c-5p, ame-miR-3719-3p, ame-miR-3720-5p, ame-miR-3721-3p, ame-miR-3722-5p, ame-miR-3723-5p, ame-miR-3724-3p, ame-miR-3725-3p, ame-miR-3726-5p, ame-miR-3727-3p, ame-miR-3728-5p, ame-miR-3729-3p, ame-miR-3730-5p, ame-miR-3731-5p, ame-miR-3732-3p, ame-miR-3733-5p, ame-miR-3734-3p, ame-miR-3735-5p, ame-miR-3736-5p, ame-miR-3737-5p, ame-miR-3738-5p, ame-miR-3739-3p, ame-miR-3740-5p, ame-miR-3741-3p, ame-miR-3742-5p, ame-miR-3743-3p, ame-miR-3744-5p, ame-miR-3745-3p, ame-miR-3746-3p, ame-miR-3747a-5p, ame-miR-3747b-5p, ame-miR-3748-3p, ame-miR-3749-3p, ame-miR-375-3p, ame-miR-3750-5p, ame-miR-3751-3p, ame-miR-3752-3p, ame-miR-3753-5p, ame-miR-3754-5p, ame-miR-3755-5p, ame-miR-3756-5p, ame-miR-3757-3p, ame-miR-3758-5p, ame-miR-3759-3p, ame-miR-3760-5p, ame-miR-3761-5p, ame-miR-3762-5p, ame-miR-3763-5p, ame-miR-3764-3p, ame-miR-3765-5p, ame-miR-3766-3p, ame-miR-3767-3p, ame-miR-3768-3p, ame-miR-3769-3p, ame-miR-3770-5p, ame-miR-3771-3p, ame-miR-3772-3p, ame-miR-3773-3p, ame-miR-3774-3p, ame-miR-3775-5p, ame-miR-3776-5p, ame-miR-3777-3p, ame-miR-3778-3p, ame-miR-3779-5p, ame-miR-3780-5p, ame-miR-3781-3p, ame-miR-3782-5p, ame-miR-3783-3p, ame-miR-3784-3p, ame-miR-3785-3p, ame-miR-3786-3p, ame-miR-3786-5p, ame-miR-3787-5p, ame-miR-3788-5p, ame-miR-3789-3p, ame-miR-3790-5p, ame-miR-3791-3p, ame-miR-3792-5p, ame-miR-3793-5p, ame-miR-3794-5p, ame-miR-3795-5p, ame-miR-3796-3p, ame-miR-3797-5p, ame-miR-3798-3p, ame-miR-3799-5p, ame-miR-3800-3p, ame-miR-3801-5p, ame-miR-6000a-3p, ame-miR-6000a-5p, ame-miR-6000b-3p, ame-miR-6001-3p, ame-miR-6001-5p, ame-miR-6002-3p, ame-miR-6002-5p, ame-miR-6003-3p, ame-miR-6003-5p, ame-miR-6004-3p, ame-miR-6004-5p, ame-miR-6005-3p, ame-miR-6005-5p, ame-miR-6006-3p, ame-miR-6006-5p, ame-miR-6012-3p, ame-miR-6037-3p, ame-miR-6038-5p, ame-miR-6039-5p, ame-miR-6040-3p, ame-miR-6041-3p, ame-miR-6042-3p, ame-miR-6043-3p, ame-miR-6044-5p, ame-miR-6045-5p, ame-miR-6046-3p, ame-miR-6047a-3p, ame-miR-6047a-5p, ame-miR-6047b-3p, ame-miR-6048-3p, ame-miR-6049-5p, ame-miR-6050-5p, ame-miR-6051-3p, ame-miR-6052-5p, ame-miR-6053-5p, ame-miR-6054-3p, ame-miR-6055-5p, ame-miR-6056-5p, ame-miR-6057-5p, ame-miR-6058-5p, ame-miR-6059-3p, ame-miR-6060-5p, ame-miR-6061-3p, ame-miR-6062-3p, ame-miR-6063-3p, ame-miR-6064-5p, ame-miR-6065-3p, ame-miR-6066-5p, ame-miR-6067-5p, ame-miR-7-5p, ame-miR-71-5p, ame-miR-750-3p, ame-miR-79-3p, ame-miR-8-3p, ame-miR-87-3p, ame-miR-927a-5p, ame-miR-927b-5p, ame-miR-928-5p, ame-miR-929-5p, ame-miR-92a-3p, ame-miR-92b-3p, ame-miR-92c-3p, ame-miR-92c-5p, ame-miR-932-5p, ame-miR-965-3p, ame-miR-965-5p, ame-miR-971-3p, ame-miR-980-3p, ame-miR-981-3p, ame-miR-985-3p, ame-miR-9864-5p, ame-miR-9865-

5p, ame-miR-9866-5p, ame-miR-9867-5p, ame-miR-9868-3p, ame-miR-9869-5p, ame-miR-9870-5p, ame-miR-9871-3p, ame-miR-9872-5p, ame-miR-9873-3p, ame-miR-9874-5p, ame-miR-9875-3p, ame-miR-9876-3p, ame-miR-9877-3p, ame-miR-9878-3p, ame-miR-9879-3p, ame-miR-9880-3p, ame-miR-9881-5p, ame-miR-9882-5p, ame-miR-9883-5p, ame-miR-9884-3p, ame-miR-9885-5p, ame-miR-9886-3p, ame-miR-9887-5p, ame-miR-9888-5p, ame-miR-9889-3p, ame-miR-989-3p, ame-miR-9890-5p, ame-miR-9891-3p, ame-miR-9892-3p, ame-miR-9893-5p, ame-miR-9894-3p, ame-miR-9895-3p, ame-miR-9896-5p, ame-miR-993-3p, ame-miR-996-3p, ame-miR-9a-5p, ame-miR-9b-5p, ame-miR-9c-3p, ame-miR-iab-4-5p, amg-miR2086, amg-miR319, amg-miR396, ami-let-7a-2-3p, ami-let-7a-3p, ami-let-7a-4-3p, ami-let-7a-5p, ami-let-7b-3p, ami-let-7b-5p, ami-let-7c-2-3p, ami-let-7c-3p, ami-let-7c-5p, ami-let-7d-3p, ami-let-7d-5p, ami-let-7e-3p, ami-let-7e-5p, ami-let-7f-3p, ami-let-7f-5p, ami-let-7g-3p, ami-let-7g-5p, ami-let-7i-3p, ami-let-7i-5p, ami-miR-100-3p, ami-miR-100-5p, ami-miR-101-2-5p, ami-miR-101-3p, ami-miR-101-5p, ami-miR-103-3p, ami-miR-106-5p, ami-miR-107-3p, ami-miR-107-5p, ami-miR-10a-3p, ami-miR-10a-5p, ami-miR-10b-3p, ami-miR-10b-5p, ami-miR-10c-3p, ami-miR-10c-5p, ami-miR-122-3p, ami-miR-122-5p, ami-miR-124-3p, ami-miR-124-5p, ami-miR-125a-5p, ami-miR-125b-2-3p, ami-miR-125b-3p, ami-miR-125b-5p, ami-miR-126-3p, ami-miR-126-5p, ami-miR-128-2-5p, ami-miR-128-3p, ami-miR-128-5p, ami-miR-129a-3p, ami-miR-129a-5p, ami-miR-129b-3p, ami-miR-129b-5p, ami-miR-1306-3p, ami-miR-1306-5p, ami-miR-130a-3p, ami-miR-130b-3p, ami-miR-130b-5p, ami-miR-130c-3p, ami-miR-132-3p, ami-miR-132-5p, ami-miR-1329-5p, ami-miR-133a-3p, ami-miR-133a-5p, ami-miR-133b-3p, ami-miR-135-2-3p, ami-miR-135-3-3p, ami-miR-135-3p, ami-miR-135-5p, ami-miR-137a-3p, ami-miR-137b-3p, ami-miR-138-2-3p, ami-miR-138-3p, ami-miR-138-5p, ami-miR-1388-3p, ami-miR-1388-5p, ami-miR-139-3p, ami-miR-139-5p, ami-miR-1397-3p, ami-miR-1397-5p, ami-miR-140-3p, ami-miR-140-5p, ami-miR-1416-5p, ami-miR-142-2-5p, ami-miR-142-3p, ami-miR-142-5p, ami-miR-143-3p, ami-miR-143-5p, ami-miR-144-3p, ami-miR-144-5p, ami-miR-145-3p, ami-miR-145-5p, ami-miR-146a-5p, ami-miR-146b-3p, ami-miR-146b-5p, ami-miR-146c-3p, ami-miR-146c-5p, ami-miR-147-3p, ami-miR-147-5p, ami-miR-148b-3p, ami-miR-148b-5p, ami-miR-150-3p, ami-miR-150-5p, ami-miR-152-3p, ami-miR-152-5p, ami-miR-153-3p, ami-miR-155-5p, ami-miR-15a-3p, ami-miR-15a-5p, ami-miR-15b-3p, ami-miR-15b-5p, ami-miR-15c-3p, ami-miR-15c-5p, ami-miR-1641-5p, ami-miR-1662-5p, ami-miR-1677a-3p, ami-miR-1677b-3p, ami-miR-1677b-5p, ami-miR-1677c-3p, ami-miR-1677c-5p, ami-miR-16a-2-3p, ami-miR-16a-3p, ami-miR-16a-5p, ami-miR-16b-3p, ami-miR-16b-5p, ami-miR-17-3p, ami-miR-17-5p, ami-miR-1720-3p, ami-miR-1788-3p, ami-miR-1788-5p, ami-miR-1791-3p, ami-miR-

1791-5p, ami-miR-18-3p, ami-miR-18-5p, ami-miR-1805-3p, ami-miR-1805-5p, ami-miR-181a-2-3p, ami-miR-181a-3-3p, ami-miR-181a-3p, ami-miR-181a-5p, ami-miR-181b-2-3p, ami-miR-181b-3-3p, ami-miR-181b-3p, ami-miR-181b-5p, ami-miR-182-3p, ami-miR-182-5p, ami-miR-183-3p, ami-miR-183-5p, ami-miR-184-3p, ami-miR-184-5p, ami-miR-187-3p, ami-miR-187-5p, ami-miR-190a-3p, ami-miR-190a-5p, ami-miR-190b-5p, ami-miR-191-5p, ami-miR-192-3p, ami-miR-192-5p, ami-miR-193a-3p, ami-miR-193a-5p, ami-miR-193b-3p, ami-miR-193b-5p, ami-miR-194-2-3p, ami-miR-194-3p, ami-miR-194-5p, ami-miR-196-5p, ami-miR-199-3p, ami-miR-199-5p, ami-miR-19a-5p, ami-miR-19b-3p, ami-miR-19b-5p, ami-miR-1a-2-5p, ami-miR-1a-3p, ami-miR-1a-5p, ami-miR-1b-3p, ami-miR-1b-5p, ami-miR-200a-3p, ami-miR-200a-5p, ami-miR-200b-3p, ami-miR-200b-5p, ami-miR-202-5p, ami-miR-203-3p, ami-miR-203-5p, ami-miR-204-2-3p, ami-miR-204-3p, ami-miR-204-5p, ami-miR-205a-3p, ami-miR-205a-5p, ami-miR-205b-5p, ami-miR-206-3p, ami-miR-206-5p, ami-miR-208-3p, ami-miR-20a-3p, ami-miR-20a-5p, ami-miR-21-3p, ami-miR-21-5p, ami-miR-210-3p, ami-miR-210-5p, ami-miR-212-3p, ami-miR-212-5p, ami-miR-214-3p, ami-miR-214-5p, ami-miR-215-3p, ami-miR-215-5p, ami-miR-216a-5p, ami-miR-216b-3p, ami-miR-216b-5p, ami-miR-217-3p, ami-miR-217-5p, ami-miR-218-5p, ami-miR-2184-3p, ami-miR-2184-5p, ami-miR-2188-3p, ami-miR-2188-5p, ami-miR-219a-3p, ami-miR-219a-5p, ami-miR-219b-3p, ami-miR-219b-5p, ami-miR-221-3p, ami-miR-221-5p, ami-miR-222a-3p, ami-miR-222a-5p, ami-miR-222b-3p, ami-miR-222b-5p, ami-miR-223-3p, ami-miR-223-5p, ami-miR-23a-3p, ami-miR-23b-3p, ami-miR-23b-5p, ami-miR-24-2-5p, ami-miR-24-3p, ami-miR-24-5p, ami-miR-26-2-3p, ami-miR-26-3p, ami-miR-26-5p, ami-miR-27a-3p, ami-miR-27a-5p, ami-miR-27b-3p, ami-miR-27b-5p, ami-miR-2970-3p, ami-miR-2970-5p, ami-miR-2984-3p, ami-miR-29a-2-5p, ami-miR-29a-3p, ami-miR-29a-5p, ami-miR-29b-2-5p, ami-miR-29b-3p, ami-miR-29b-5p, ami-miR-301a-3p, ami-miR-301a-5p, ami-miR-301b-3p, ami-miR-301b-5p, ami-miR-302a-3p, ami-miR-302b-3p, ami-miR-302c-3p, ami-miR-302d-3p, ami-miR-3064-3p, ami-miR-30a-3p, ami-miR-30a-5p, ami-miR-30b-3p, ami-miR-30b-5p, ami-miR-30c-2-3p, ami-miR-30c-3p, ami-miR-30c-5p, ami-miR-30d-3p, ami-miR-30d-5p, ami-miR-30e-3p, ami-miR-30e-5p, ami-miR-31-3p, ami-miR-31-5p, ami-miR-32-3p, ami-miR-32-5p, ami-miR-33-2-3p, ami-miR-33-3p, ami-miR-33-5p, ami-miR-338-2-5p, ami-miR-338-3p, ami-miR-338-5p, ami-miR-34a-3p, ami-miR-34a-5p, ami-miR-34b-3p, ami-miR-34b-5p, ami-miR-34c-3p, ami-miR-34c-5p, ami-miR-3618-3p, ami-miR-365-2-5p, ami-miR-365-3p, ami-miR-365-5p, ami-miR-367-3p, ami-miR-375-3p, ami-miR-383-5p, ami-miR-425-3p, ami-miR-425-5p, ami-miR-429-3p, ami-miR-429-5p, ami-miR-449a-5p, ami-miR-449b-5p, ami-miR-449c-5p, ami-miR-449d-5p, ami-miR-454-3p, ami-miR-454-5p, ami-

miR-455-3p, ami-miR-455-5p, ami-miR-456-3p, ami-miR-458-3p, ami-miR-459-5p, ami-miR-460a-5p, ami-miR-460b-3p, ami-miR-460b-5p, ami-miR-489-3p, ami-miR-489-5p, ami-miR-490-3p, ami-miR-490-5p, ami-miR-497-3p, ami-miR-497-5p, ami-miR-499-3p, ami-miR-499-5p, ami-miR-551-3p, ami-miR-551-5p, ami-miR-599-3p, ami-miR-599-5p, ami-miR-737-5p, ami-miR-7a-2-3p, ami-miR-7a-3p, ami-miR-7a-5p, ami-miR-7b-5p, ami-miR-875-5p, ami-miR-9-3p, ami-miR-9-4-3p, ami-miR-9-5p, ami-miR-92a-3p, ami-miR-92a-5p, ami-miR-92b-3p, ami-miR-93-3p, ami-miR-93-5p, ami-miR-9598-3p, ami-miR-9598-5p, ami-miR-9599-3p, ami-miR-9599-5p, ami-miR-96-3p, ami-miR-96-5p, ami-miR-9600-3p, ami-miR-9600-5p, ami-miR-9601-3p, ami-miR-9601-5p, ami-miR-9602-3p, ami-miR-9602-5p, ami-miR-9603-3p, ami-miR-9603-5p, ami-miR-9604-3p, ami-miR-9604-5p, ami-miR-9605-3p, ami-miR-9605-5p, ami-miR-9606-3p, ami-miR-9606-5p, ami-miR-9607-3p, ami-miR-9607-5p, ami-miR-9608-3p, ami-miR-9608-5p, ami-miR-9609-3p, ami-miR-9609-5p, ami-miR-9610-3p, ami-miR-9610-5p, ami-miR-9611-3p, ami-miR-9611-5p, ami-miR-9612-3p, ami-miR-9612-5p, ami-miR-9613-3p, ami-miR-9613-5p, ami-miR-98-3p, ami-miR-98-5p, ami-miR-99a-3p, ami-miR-99a-5p, ami-miR-99b-3p, ami-miR-99b-5p, aof-miR12137, aof-miR12138, aof-miR12139, aof-miR12140, aof-miR12141, aof-miR12142, aof-miR12143, aof-miR12144, aof-miR12145, aof-miR12146, aof-miR12147, aof-miR12148, aof-miR12149, aof-miR12150, aof-miR12151, aof-miR12152, aof-miR12153, aof-miR12154, aof-miR12155, aof-miR12156, aof-miR12157, aof-miR12158, aof-miR12159, aof-miR12160, aof-miR12161, aof-miR12162, aof-miR12163, aof-miR12164, aof-miR12165, aof-miR12166, aof-miR12167, aof-miR12168, aof-miR12169, aof-miR12170, aof-miR12171, aof-miR12172, aof-miR12173, aof-miR12174, aof-miR12175, aof-miR12176, aof-miR12177, aof-miR156a, aof-miR156b, aof-miR156c, aof-miR159, aof-miR160a, aof-miR160b, aof-miR160c, aof-miR164, aof-miR166a, aof-miR166b, aof-miR166c, aof-miR166d, aof-miR167a, aof-miR167b, aof-miR167c, aof-miR168a, aof-miR168b, aof-miR169a, aof-miR169b, aof-miR169c, aof-miR171a, aof-miR171b, aof-miR171c, aof-miR172, aof-miR2118a, aof-miR2118b, aof-miR2118c, aof-miR2275a, aof-miR2275b, aof-miR2275c, aof-miR2275d, aof-miR319a, aof-miR319b, aof-miR390, aof-miR391, aof-miR393a, aof-miR393b, aof-miR394, aof-miR395a, aof-miR395b, aof-miR396a, aof-miR396b, aof-miR398, aof-miR399a, aof-miR399b, aof-miR399c, aof-miR408, aof-miR477a, aof-miR477b, aof-miR479, aof-miR482a, aof-miR482b, aof-miR482c, aof-miR5139a, aof-miR5139b, aof-miR535, aof-miR536, aof-miR8155, aof-miR827, aof-miR828, api-bantam, api-let-7, api-miR-1, api-miR-10, api-miR-100, api-miR-1000, api-miR-124, api-miR-137, api-miR-13a, api-miR-14, api-miR-184a, api-miR-184b,

api-miR-190, api-miR-1923, api-miR-210, api-miR-219, api-miR-252a, api-miR-252b, api-miR-263a, api-miR-263b, api-miR-275, api-miR-276, api-miR-2765, api-miR-277, api-miR-278, api-miR-2796, api-miR-279a, api-miR-279b, api-miR-281, api-miR-29, api-miR-2a, api-miR-2b, api-miR-2c, api-miR-3015a, api-miR-3015b, api-miR-3015c, api-miR-3016, api-miR-3017a, api-miR-3017b, api-miR-3018, api-miR-3019, api-miR-3020, api-miR-3021, api-miR-3022, api-miR-3023, api-miR-3024, api-miR-3025, api-miR-3026, api-miR-3027, api-miR-3028, api-miR-3029, api-miR-3030, api-miR-3031, api-miR-3032, api-miR-3033, api-miR-3034, api-miR-3035, api-miR-3036, api-miR-3037, api-miR-3038, api-miR-3039, api-miR-3040, api-miR-3041, api-miR-3042, api-miR-3043, api-miR-3044, api-miR-3045a, api-miR-3045b, api-miR-3046, api-miR-3047, api-miR-3048, api-miR-3049, api-miR-3050, api-miR-3051, api-miR-3052, api-miR-3053, api-miR-3054, api-miR-3055, api-miR-3056, api-miR-306, api-miR-307, api-miR-315, api-miR-316, api-miR-317, api-miR-34, api-miR-7, api-miR-71, api-miR-8, api-miR-87a, api-miR-87b, api-miR-927, api-miR-929, api-miR-92a, api-miR-92b, api-miR-965, api-miR-971, api-miR-981, api-miR-993, api-miR-996, api-miR-998, api-miR-9a, api-miR-9b, api-miR-iab-4, apl-miR-11588-3p, apl-miR-11588-5p, apl-miR-11589-3p, apl-miR-11589-5p, apl-miR-11590-3p, apl-miR-11590-5p, apl-miR-11591-3p, apl-miR-11591-5p, aqc-miR156a, aqc-miR156b, aqc-miR159, aqc-miR160a, aqc-miR160b, aqc-miR166a, aqc-miR166b, aqc-miR166c, aqc-miR166d, aqc-miR166e, aqc-miR167, aqc-miR168, aqc-miR169a, aqc-miR169b, aqc-miR169c, aqc-miR171a, aqc-miR171b, aqc-miR171c, aqc-miR171d, aqc-miR171e, aqc-miR171f, aqc-miR172a, aqc-miR172b, aqc-miR319, aqc-miR395a, aqc-miR395b, aqc-miR396a, aqc-miR396b, aqc-miR398a, aqc-miR398b, aqc-miR399, aqc-miR408, aqc-miR477a, aqc-miR477b, aqc-miR477c, aqc-miR477d, aqc-miR477e, aqc-miR477f, aqc-miR477g, aqc-miR482a, aqc-miR482b, aqc-miR482c, aqc-miR529, aqc-miR530, aqc-miR535, aqu-miR-2014-3p, aqu-miR-2014-5p, aqu-miR-2015-3p, aqu-miR-2015-5p, aqu-miR-2016-3p, aqu-miR-2016-5p, aqu-miR-2017-3p, aqu-miR-2017-5p, aqu-miR-2018-3p, aqu-miR-2018-5p, aqu-miR-2019-3p, aqu-miR-2019-5p, aqu-miR-2020-3p, aqu-miR-2020-5p, aqu-miR-2021-3p, aqu-miR-2021-5p, asu-let-7-3p, asu-let-7-5p, asu-lin-4-3p, asu-lin-4-5p, asu-miR-1-3p, asu-miR-1-5p, asu-miR-100a-1-3p, asu-miR-100a-2-3p, asu-miR-100a-5p, asu-miR-100b-3p, asu-miR-100b-5p, asu-miR-100c-3p, asu-miR-100c-5p, asu-miR-100d-3p, asu-miR-100d-5p, asu-miR-100e-3p, asu-miR-100e-5p, asu-miR-1175-3p, asu-miR-1175-5p, asu-miR-124-3p, asu-miR-124-5p, asu-miR-133-3p, asu-miR-133-5p, asu-miR-1822-3p, asu-miR-1822-5p, asu-miR-184-3p, asu-miR-184-5p, asu-miR-228-3p, asu-miR-228-5p, asu-miR-234-3p, asu-miR-234-5p, asu-miR-236-3p, asu-miR-236-5p, asu-miR-239-3p, asu-miR-239-5p, asu-miR-250-

3p, asu-miR-250-5p, asu-miR-252-3p, asu-miR-252-5p, asu-miR-279a-3p, asu-miR-279a-5p, asu-miR-279b-3p, asu-miR-279b-5p, asu-miR-279c-3p, asu-miR-279c-5p, asu-miR-283-3p, asu-miR-283-5p, asu-miR-2a-3p, asu-miR-2a-5p, asu-miR-2b-3p, asu-miR-2b-5p, asu-miR-34-3p, asu-miR-34-5p, asu-miR-36a-3p, asu-miR-36a-5p, asu-miR-36b-3p, asu-miR-36b-5p, asu-miR-36c-3p, asu-miR-36c-5p, asu-miR-36d-3p, asu-miR-36d-5p, asu-miR-36e-3p, asu-miR-36e-5p, asu-miR-36f-3p, asu-miR-36f-5p, asu-miR-375-3p, asu-miR-375-5p, asu-miR-43a-3p, asu-miR-43a-5p, asu-miR-43b-3p, asu-miR-43b-5p, asu-miR-43c-1-5p, asu-miR-43c-2-5p, asu-miR-43c-3p, asu-miR-43d-3p, asu-miR-43d-5p, asu-miR-43e-3p, asu-miR-43e-5p, asu-miR-44a-3p, asu-miR-44a-5p, asu-miR-44b-3p, asu-miR-44b-5p, asu-miR-46-3p, asu-miR-46-5p, asu-miR-49-3p, asu-miR-49-5p, asu-miR-50-3p, asu-miR-50-5p, asu-miR-5342-3p, asu-miR-5342-5p, asu-miR-5345a-3p, asu-miR-5345a-5p, asu-miR-5345b, asu-miR-5346-3p, asu-miR-5346-5p, asu-miR-5347-3p, asu-miR-5347-5p, asu-miR-5348-3p, asu-miR-5348-5p, asu-miR-5349-3p, asu-miR-5349-5p, asu-miR-5350a-3p, asu-miR-5350a-5p, asu-miR-5350b-3p, asu-miR-5350b-5p, asu-miR-5350c-3p, asu-miR-5350c-5p, asu-miR-5350d-3p, asu-miR-5350d-5p, asu-miR-5351-3p, asu-miR-5351-5p, asu-miR-5352-3p, asu-miR-5352-5p, asu-miR-5353-3p, asu-miR-5353-5p, asu-miR-5354-3p, asu-miR-5354-5p, asu-miR-5355-3p, asu-miR-5355-5p, asu-miR-5356a-3p, asu-miR-5356a-5p, asu-miR-5356b-3p, asu-miR-5356b-5p, asu-miR-5357-3p, asu-miR-5357-5p, asu-miR-5358a-3p, asu-miR-5358a-5p, asu-miR-5358b-3p, asu-miR-5358b-5p, asu-miR-5359-3p, asu-miR-5359-5p, asu-miR-5360-3p, asu-miR-5360-5p, asu-miR-5361-3p, asu-miR-5361-5p, asu-miR-5362-3p, asu-miR-5362-5p, asu-miR-5363-3p, asu-miR-5363-5p, asu-miR-5364-3p, asu-miR-5364-5p, asu-miR-5365a-3p, asu-miR-5365a-5p, asu-miR-5365b-3p, asu-miR-5365b-5p, asu-miR-5366-3p, asu-miR-5366-5p, asu-miR-5367-3p, asu-miR-5367-5p, asu-miR-56, asu-miR-57-3p, asu-miR-57-5p, asu-miR-67-3p, asu-miR-67-5p, asu-miR-7-3p, asu-miR-7-5p, asu-miR-71-3p, asu-miR-71-5p, asu-miR-72-3p, asu-miR-72-5p, asu-miR-750-3p, asu-miR-750-5p, asu-miR-76-3p, asu-miR-76-5p, asu-miR-79-3p, asu-miR-79-5p, asu-miR-791-3p, asu-miR-791-5p, asu-miR-81a, asu-miR-81b-3p, asu-miR-81b-5p, asu-miR-81c-3p, asu-miR-81c-5p, asu-miR-83-3p, asu-miR-83-5p, asu-miR-84-3p, asu-miR-84-5p, asu-miR-86-3p, asu-miR-86-5p, asu-miR-87a-3p, asu-miR-87a-5p, asu-miR-87b-3p, asu-miR-87b-5p, asu-miR-9-3p, asu-miR-9-5p, asu-miR-92-3p, asu-miR-92-5p, asu-miR-993-3p, asu-miR-993-5p, ata-miR1432-3p, ata-miR1432-5p, ata-miR156a-3p, ata-miR156a-5p, ata-miR156b-3p, ata-miR156b-5p, ata-miR156c-3p, ata-miR156c-5p, ata-miR156d-3p, ata-miR156d-5p, ata-miR156e-3p, ata-miR156e-5p, ata-miR160a-3p, ata-miR160a-5p, ata-miR160b-3p, ata-miR160b-5p, ata-miR160c-3p, ata-miR160c-5p, ata-miR164a-3p, ata-miR164a-5p, ata-

miR164b-3p, ata-miR164b-5p, ata-miR164c-3p, ata-miR164c-5p, ata-miR166a-3p, ata-miR166a-5p, ata-miR166b-3p, ata-miR166b-5p, ata-miR166c-3p, ata-miR166c-5p, ata-miR166d-3p, ata-miR166d-5p, ata-miR166e-3p, ata-miR166e-5p, ata-miR167a-3p, ata-miR167a-5p, ata-miR167b-3p, ata-miR167b-5p, ata-miR167c-3p, ata-miR167c-5p, ata-miR167d-3p, ata-miR167d-5p, ata-miR167e-3p, ata-miR167e-5p, ata-miR167f-3p, ata-miR167f-5p, ata-miR168-3p, ata-miR168-5p, ata-miR169a-3p, ata-miR169a-5p, ata-miR169b-3p, ata-miR169b-5p, ata-miR169c-3p, ata-miR169c-5p, ata-miR169d-3p, ata-miR169d-5p, ata-miR169e-5p, ata-miR169f-3p, ata-miR169f-5p, ata-miR169g-3p, ata-miR169g-5p, ata-miR169h-3p, ata-miR169h-5p, ata-miR169i-3p, ata-miR169i-5p, ata-miR169j-3p, ata-miR169j-5p, ata-miR171a-3p, ata-miR171a-5p, ata-miR171b-3p, ata-miR171b-5p, ata-miR171c-3p, ata-miR171c-5p, ata-miR171d-3p, ata-miR171d-5p, ata-miR172a-3p, ata-miR172a-5p, ata-miR172b-3p, ata-miR172b-5p, ata-miR172c-3p, ata-miR172c-5p, ata-miR2118a-3p, ata-miR2118a-5p, ata-miR2118b-3p, ata-miR2118b-5p, ata-miR2118c-3p, ata-miR2118d-3p, ata-miR2275a-3p, ata-miR2275a-5p, ata-miR2275b-3p, ata-miR2275b-5p, ata-miR2275c-3p, ata-miR2275c-5p, ata-miR319-3p, ata-miR319-5p, ata-miR390-3p, ata-miR390-5p, ata-miR393-3p, ata-miR393-5p, ata-miR394-3p, ata-miR394-5p, ata-miR395a-3p, ata-miR395a-5p, ata-miR395b-3p, ata-miR395b-5p, ata-miR395c-3p, ata-miR395c-5p, ata-miR395d-3p, ata-miR395d-5p, ata-miR395e-3p, ata-miR395e-5p, ata-miR395f-3p, ata-miR395f-5p, ata-miR396a-3p, ata-miR396a-5p, ata-miR396b-3p, ata-miR396b-5p, ata-miR396c-3p, ata-miR396c-5p, ata-miR396d-3p, ata-miR396d-5p, ata-miR396e-3p, ata-miR396e-5p, ata-miR398f-3p, ata-miR398f-5p, ata-miR398g-3p, ata-miR398g-5p, ata-miR399a-3p, ata-miR399a-5p, ata-miR399b-3p, ata-miR399b-5p, ata-miR408-3p, ata-miR408-5p, ata-miR5062a-3p, ata-miR5062a-5p, ata-miR5062b-3p, ata-miR5062b-5p, ata-miR5070-3p, ata-miR5070-5p, ata-miR5084-3p, ata-miR5084-5p, ata-miR5168-3p, ata-miR5168-5p, ata-miR5181-3p, ata-miR5181-5p, ata-miR5200-3p, ata-miR5200-5p, ata-miR528-3p, ata-miR528-5p, ata-miR6201-3p, ata-miR6201-5p, ata-miR9672-3p, ata-miR9672-5p, ata-miR9674a-3p, ata-miR9674a-5p, ata-miR9674b-3p, ata-miR9674b-5p, ata-miR9674c-3p, ata-miR9674c-5p, ata-miR9677-3p, ata-miR9677-5p, ata-miR9772a-3p, ata-miR9772a-5p, ata-miR9772b-3p, ata-miR9772b-5p, ata-miR9776-3p, ata-miR9776-5p, ata-miR9783-3p, ata-miR9783-5p, ata-miR9863a-3p, ata-miR9863a-5p, ata-miR9863b-3p, ata-miR9863b-5p, ath-miR10515, ath-miR156a-3p, ath-miR156a-5p, ath-miR156b-3p, ath-miR156b-5p, ath-miR156c-3p, ath-miR156c-5p, ath-miR156d-3p, ath-miR156d-5p, ath-miR156e, ath-miR156f-3p, ath-miR156f-5p, ath-miR156g, ath-miR156h, ath-miR156i, ath-miR156j, ath-miR157a-3p, ath-miR157a-5p, ath-miR157b-3p, ath-

miR157b-5p, ath-miR157c-3p, ath-miR157c-5p, ath-miR157d, ath-miR158a-3p, ath-miR158a-5p, ath-miR158b, ath-miR159a, ath-miR159b-3p, ath-miR159b-5p, ath-miR159c, ath-miR160a-3p, ath-miR160a-5p, ath-miR160b, ath-miR160c-3p, ath-miR160c-5p, ath-miR161.1, ath-miR161.2, ath-miR162a-3p, ath-miR162a-5p, ath-miR162b-3p, ath-miR162b-5p, ath-miR163, ath-miR164a, ath-miR164b-3p, ath-miR164b-5p, ath-miR164c-3p, ath-miR164c-5p, ath-miR165a-3p, ath-miR165a-5p, ath-miR165b, ath-miR166a-3p, ath-miR166a-5p, ath-miR166b-3p, ath-miR166b-5p, ath-miR166c, ath-miR166d, ath-miR166e-3p, ath-miR166e-5p, ath-miR166f, ath-miR166g, ath-miR167a-3p, ath-miR167a-5p, ath-miR167b, ath-miR167c-3p, ath-miR167c-5p, ath-miR167d, ath-miR168a-3p, ath-miR168a-5p, ath-miR168b-3p, ath-miR168b-5p, ath-miR169a-3p, ath-miR169a-5p, ath-miR169b-3p, ath-miR169b-5p, ath-miR169c, ath-miR169d, ath-miR169e, ath-miR169f-3p, ath-miR169f-5p, ath-miR169g-3p, ath-miR169g-5p, ath-miR169h, ath-miR169i, ath-miR169j, ath-miR169k, ath-miR169l, ath-miR169m, ath-miR169n, ath-miR170-3p, ath-miR170-5p, ath-miR171a-3p, ath-miR171a-5p, ath-miR171b-3p, ath-miR171b-5p, ath-miR171c-3p, ath-miR171c-5p, ath-miR172a, ath-miR172b-3p, ath-miR172b-5p, ath-miR172c, ath-miR172d-3p, ath-miR172d-5p, ath-miR172e-3p, ath-miR172e-5p, ath-miR173-3p, ath-miR173-5p, ath-miR1886.1, ath-miR1886.2, ath-miR1886.3, ath-miR1887, ath-miR1888a, ath-miR1888b, ath-miR2111a-3p, ath-miR2111a-5p, ath-miR2111b-3p, ath-miR2111b-5p, ath-miR2112-3p, ath-miR2112-5p, ath-miR2933a, ath-miR2933b, ath-miR2934-3p, ath-miR2934-5p, ath-miR2936, ath-miR2937, ath-miR2938, ath-miR2939, ath-miR319a, ath-miR319b, ath-miR319c, ath-miR3434-3p, ath-miR3434-5p, ath-miR3440b-3p, ath-miR3440b-5p, ath-miR390a-3p, ath-miR390a-5p, ath-miR390b-3p, ath-miR390b-5p, ath-miR391-3p, ath-miR391-5p, ath-miR3932a, ath-miR3932b-3p, ath-miR3932b-5p, ath-miR3933, ath-miR393a-3p, ath-miR393a-5p, ath-miR393b-3p, ath-miR393b-5p, ath-miR394a, ath-miR394b-3p, ath-miR394b-5p, ath-miR395a, ath-miR395b, ath-miR395c, ath-miR395d, ath-miR395e, ath-miR395f, ath-miR396a-3p, ath-miR396a-5p, ath-miR396b-3p, ath-miR396b-5p, ath-miR397a, ath-miR397b, ath-miR398a-3p, ath-miR398a-5p, ath-miR398b-3p, ath-miR398b-5p, ath-miR398c-3p, ath-miR398c-5p, ath-miR399a, ath-miR399b, ath-miR399c-3p, ath-miR399c-5p, ath-miR399d, ath-miR399e, ath-miR399f, ath-miR400, ath-miR401, ath-miR402, ath-miR403-3p, ath-miR403-5p, ath-miR404, ath-miR405a, ath-miR405b, ath-miR405d, ath-miR406, ath-miR407, ath-miR408-3p, ath-miR408-5p, ath-miR413, ath-miR414, ath-miR415, ath-miR416, ath-miR417, ath-miR418, ath-miR419, ath-miR420, ath-miR4221, ath-miR4227, ath-miR4228-3p, ath-miR4228-5p, ath-miR4239, ath-miR4240, ath-miR4243, ath-miR4245, ath-miR426, ath-miR447a-3p, ath-miR447a.2-3p, ath-miR447b, ath-

miR447c-3p, ath-miR447c-5p, ath-miR472-3p, ath-miR472-5p, ath-miR5012, ath-miR5013, ath-miR5014a-3p, ath-miR5014a-5p, ath-miR5014b, ath-miR5015, ath-miR5016, ath-miR5017-3p, ath-miR5017-5p, ath-miR5018, ath-miR5019, ath-miR5020a, ath-miR5020b, ath-miR5020c, ath-miR5021, ath-miR5022, ath-miR5023, ath-miR5024-3p, ath-miR5024-5p, ath-miR5025, ath-miR5026, ath-miR5027, ath-miR5028, ath-miR5029, ath-miR5595a, ath-miR5628, ath-miR5629, ath-miR5630a, ath-miR5630b, ath-miR5631, ath-miR5632-3p, ath-miR5632-5p, ath-miR5633, ath-miR5634, ath-miR5635a, ath-miR5635b, ath-miR5635c, ath-miR5635d, ath-miR5636, ath-miR5637, ath-miR5638a, ath-miR5638b, ath-miR5639-3p, ath-miR5639-5p, ath-miR5640, ath-miR5641, ath-miR5642a, ath-miR5642b, ath-miR5643a, ath-miR5643b, ath-miR5644, ath-miR5645a, ath-miR5645b, ath-miR5645c, ath-miR5645d, ath-miR5645e, ath-miR5645f, ath-miR5646, ath-miR5647, ath-miR5648-3p, ath-miR5648-5p, ath-miR5649a, ath-miR5649b, ath-miR5650, ath-miR5651, ath-miR5652, ath-miR5653, ath-miR5654-3p, ath-miR5654-5p, ath-miR5655, ath-miR5656, ath-miR5657, ath-miR5658, ath-miR5659, ath-miR5660, ath-miR5661, ath-miR5662, ath-miR5663-3p, ath-miR5663-5p, ath-miR5664, ath-miR5665, ath-miR5666, ath-miR5995b, ath-miR5996, ath-miR5997, ath-miR5998a, ath-miR5998b, ath-miR5999, ath-miR771, ath-miR773a, ath-miR773b-3p, ath-miR773b-5p, ath-miR774a, ath-miR774b-3p, ath-miR774b-5p, ath-miR775, ath-miR776, ath-miR777, ath-miR778, ath-miR779.1, ath-miR779.2, ath-miR780.1, ath-miR780.2, ath-miR781a, ath-miR781b, ath-miR782, ath-miR8121, ath-miR8165, ath-miR8166, ath-miR8167a, ath-miR8167b, ath-miR8167c, ath-miR8167d, ath-miR8167e, ath-miR8167f, ath-miR8168, ath-miR8169, ath-miR8170-3p, ath-miR8170-5p, ath-miR8171, ath-miR8172, ath-miR8173, ath-miR8174, ath-miR8175, ath-miR8176, ath-miR8177, ath-miR8178, ath-miR8179, ath-miR8180, ath-miR8181, ath-miR8182, ath-miR8183, ath-miR8184, ath-miR822-3p, ath-miR822-5p, ath-miR823, ath-miR824-3p, ath-miR824-5p, ath-miR825, ath-miR826a, ath-miR826b, ath-miR827, ath-miR828, ath-miR829-3p.1, ath-miR829-3p.2, ath-miR829-5p, ath-miR830-3p, ath-miR830-5p, ath-miR831-3p, ath-miR831-5p, ath-miR832-3p, ath-miR832-5p, ath-miR833a-3p, ath-miR833a-5p, ath-miR833b, ath-miR834, ath-miR835-3p, ath-miR835-5p, ath-miR836, ath-miR837-3p, ath-miR837-5p, ath-miR838, ath-miR839-5p, ath-miR840-3p, ath-miR840-5p, ath-miR841a-3p, ath-miR841a-5p, ath-miR841b-3p, ath-miR841b-5p, ath-miR842, ath-miR843, ath-miR844-3p, ath-miR844-5p, ath-miR845a, ath-miR845b, ath-miR846-3p, ath-miR846-5p, ath-miR847, ath-miR848, ath-miR849, ath-miR850, ath-miR851-3p, ath-miR851-5p, ath-miR852, ath-miR853, ath-miR854a, ath-miR854b, ath-miR854c, ath-miR854d, ath-miR854e, ath-miR855, ath-miR856, ath-miR857, ath-miR858a, ath-miR858b, ath-miR859, ath-miR860, ath-miR861-3p, ath-

miR861-5p, ath-miR862-3p, ath-miR862-5p, ath-miR863-3p, ath-miR863-5p, ath-miR864-3p, ath-miR864-5p, ath-miR865-3p, ath-miR865-5p, ath-miR866-3p, ath-miR866-5p, ath-miR867, ath-miR868-3p, ath-miR868-5p, ath-miR869.1, ath-miR869.2, ath-miR870-3p, ath-miR870-5p, atr-miR156a, atr-miR156b, atr-miR156c, atr-miR156d, atr-miR159, atr-miR160, atr-miR164a, atr-miR164b, atr-miR166a, atr-miR166b, atr-miR166c, atr-miR166d, atr-miR167, atr-miR168, atr-miR169a, atr-miR169b, atr-miR169c, atr-miR171a, atr-miR171b, atr-miR171c, atr-miR172, atr-miR2111, atr-miR2950, atr-miR319a, atr-miR319b, atr-miR319c, atr-miR319d, atr-miR319e, atr-miR390.1, atr-miR390.2, atr-miR393, atr-miR394, atr-miR395, atr-miR396a, atr-miR396b, atr-miR396c, atr-miR396d, atr-miR396e, atr-miR397a, atr-miR397b, atr-miR398, atr-miR477, atr-miR535, atr-miR828, atr-miR8551, atr-miR8552a, atr-miR8552b, atr-miR8552c, atr-miR8552d, atr-miR8553a, atr-miR8553b, atr-miR8554, atr-miR8555, atr-miR8556, atr-miR8557, atr-miR8558a, atr-miR8558b, atr-miR8559, atr-miR8560, atr-miR8561.1, atr-miR8561.2, atr-miR8562a, atr-miR8562b, atr-miR8562c, atr-miR8563, atr-miR8564, atr-miR8565a, atr-miR8565b, atr-miR8565c, atr-miR8565d, atr-miR8565e, atr-miR8565f, atr-miR8565g, atr-miR8565h, atr-miR8566, atr-miR8567, atr-miR8568, atr-miR8569, atr-miR8570, atr-miR8571, atr-miR8572, atr-miR8573, atr-miR8574, atr-miR8575, atr-miR8576, atr-miR8577, atr-miR8578.1, atr-miR8578.2, atr-miR8579, atr-miR8580, atr-miR8581, atr-miR8582, atr-miR8583, atr-miR8584, atr-miR8585, atr-miR8586, atr-miR8587, atr-miR8588, atr-miR8589, atr-miR8590, atr-miR8591, atr-miR8592, atr-miR8593, atr-miR8594.1, atr-miR8594.2, atr-miR8595, atr-miR8596, atr-miR8597, atr-miR8598, atr-miR8599, atr-miR8600, atr-miR8601, atr-miR8602, atr-miR8603, atr-miR8604, atr-miR8605, atr-miR8606, atr-miR8607, atr-miR8608, atr-miR8609, atr-miR8610.1, atr-miR8610.2, atr-miR8611, atr-miR8612, atr-miR8613, atr-miR8614, atr-miR8615, atr-miR8616, atr-miR8617, bbe-let-7a-2-3p, bbe-let-7a-3p, bbe-let-7a-5p, bbe-miR-1-3p, bbe-miR-1-5p, bbe-miR-100-3p, bbe-miR-100-5p, bbe-miR-10a-3p, bbe-miR-10a-5p, bbe-miR-10b-3p, bbe-miR-10b-5p, bbe-miR-10c-5p, bbe-miR-124-3p, bbe-miR-124-5p, bbe-miR-125a-3p, bbe-miR-125a-5p, bbe-miR-125b-3p, bbe-miR-129a-3p, bbe-miR-129a-5p, bbe-miR-129b-5p, bbe-miR-133-3p, bbe-miR-133-5p, bbe-miR-135a-3p, bbe-miR-135a-5p, bbe-miR-135b-5p, bbe-miR-137-3p, bbe-miR-153-3p, bbe-miR-182a-3p, bbe-miR-182a-5p, bbe-miR-182b-3p, bbe-miR-182b-5p, bbe-miR-182c-5p, bbe-miR-182d-3p, bbe-miR-183-5p, bbe-miR-184-3p, bbe-miR-184-5p, bbe-miR-190-3p, bbe-miR-190-5p, bbe-miR-193b-3p, bbe-miR-200a-3p, bbe-miR-200a-5p, bbe-miR-200b-3p, bbe-miR-200b-5p, bbe-miR-200c-3p, bbe-miR-2013-3p, bbe-miR-2056-3p, bbe-miR-2057-3p, bbe-miR-2057-5p, bbe-miR-2058-3p, bbe-miR-2058-5p, bbe-miR-2059-3p,

bbe-miR-2059-5p, bbe-miR-2060a-3p, bbe-miR-2060b-3p, bbe-miR-2060c-3p, bbe-miR-2061-3p, bbe-miR-2061-5p, bbe-miR-2062-3p, bbe-miR-2062-5p, bbe-miR-2063-3p, bbe-miR-2063-5p, bbe-miR-2064-3p, bbe-miR-2064-5p, bbe-miR-2066-3p, bbe-miR-2066-5p, bbe-miR-2067-3p, bbe-miR-2067-5p, bbe-miR-2068-3p, bbe-miR-2068-5p, bbe-miR-2069-3p, bbe-miR-2070-3p, bbe-miR-2070-5p, bbe-miR-2071-3p, bbe-miR-2071-5p, bbe-miR-2072-3p, bbe-miR-2072-5p, bbe-miR-2076-3p, bbe-miR-2076-5p, bbe-miR-210-3p, bbe-miR-210-5p, bbe-miR-216-3p, bbe-miR-216-5p, bbe-miR-217-3p, bbe-miR-217-5p, bbe-miR-219-3p, bbe-miR-219-5p, bbe-miR-22-3p, bbe-miR-22-5p, bbe-miR-242-5p, bbe-miR-252a-3p, bbe-miR-252a-5p, bbe-miR-252b-3p, bbe-miR-252b-5p, bbe-miR-278-5p, bbe-miR-281-3p, bbe-miR-281-5p, bbe-miR-29a-3p, bbe-miR-29a-5p, bbe-miR-29b-3p, bbe-miR-29b-5p, bbe-miR-31-3p, bbe-miR-31-5p, bbe-miR-33-2-3p, bbe-miR-33-3p, bbe-miR-33-5p, bbe-miR-34a-5p, bbe-miR-34b-3p, bbe-miR-34b-5p, bbe-miR-34c-5p, bbe-miR-34d-5p, bbe-miR-34f-5p, bbe-miR-34g-5p, bbe-miR-34h-5p, bbe-miR-375-3p, bbe-miR-4057-3p, bbe-miR-4856a-3p, bbe-miR-4856a-5p, bbe-miR-4857-3p, bbe-miR-4857-5p, bbe-miR-4859-3p, bbe-miR-4859-5p, bbe-miR-4860-3p, bbe-miR-4860-5p, bbe-miR-4861-3p, bbe-miR-4863-3p, bbe-miR-4863-5p, bbe-miR-4864-3p, bbe-miR-4864-5p, bbe-miR-4865-3p, bbe-miR-4865-5p, bbe-miR-4866-3p, bbe-miR-4866-5p, bbe-miR-4867-3p, bbe-miR-4868a-3p, bbe-miR-4868b-3p, bbe-miR-4868c-3p, bbe-miR-4868c-5p, bbe-miR-4869-3p, bbe-miR-4869-5p, bbe-miR-4873-5p, bbe-miR-4874-3p, bbe-miR-4874-5p, bbe-miR-4876-3p, bbe-miR-4877-3p, bbe-miR-4878-5p, bbe-miR-4879-5p, bbe-miR-4880-5p, bbe-miR-4887-5p, bbe-miR-4888-5p, bbe-miR-4889b-3p, bbe-miR-4890-5p, bbe-miR-4891-3p, bbe-miR-4891-5p, bbe-miR-4899-5p, bbe-miR-4904-3p, bbe-miR-4904-5p, bbe-miR-4928-3p, bbe-miR-7-3p, bbe-miR-7-5p, bbe-miR-705-5p, bbe-miR-71-3p, bbe-miR-71-5p, bbe-miR-9-3p, bbe-miR-9-5p, bbe-miR-92a-3p, bbe-miR-92a-5p, bbe-miR-92b-3p, bbe-miR-92b-5p, bbe-miR-92c-3p, bbe-miR-92d-3p, bbe-miR-92d-5p, bbe-miR-96-3p, bbe-miR-96-5p, bcy-miR156, bcy-miR396a, bcy-miR396b, bcy-miR529, bdi-miR1122, bdi-miR1127, bdi-miR1135, bdi-miR1139, bdi-miR1432, bdi-miR156a, bdi-miR156b-3p, bdi-miR156b-5p, bdi-miR156c, bdi-miR156d-3p, bdi-miR156d-5p, bdi-miR156e-3p, bdi-miR156e-5p, bdi-miR156f-3p, bdi-miR156f-5p, bdi-miR156g-3p, bdi-miR156g-5p, bdi-miR156h-3p, bdi-miR156h-5p, bdi-miR156i-3p, bdi-miR156i-5p, bdi-miR156j, bdi-miR159a-3p, bdi-miR159a-5p, bdi-miR159b-3p.1, bdi-miR159b-3p.2, bdi-miR159b-3p.3, bdi-miR159b-5p.1, bdi-miR159b-5p.2, bdi-miR159b-5p.3, bdi-miR159c, bdi-miR160a-3p, bdi-miR160a-5p, bdi-miR160b-3p, bdi-miR160b-5p, bdi-miR160c-3p, bdi-miR160c-5p, bdi-miR160d-3p, bdi-miR160d-5p, bdi-miR160e-3p, bdi-miR160e-5p, bdi-miR160f, bdi-miR162, bdi-miR164a-3p, bdi-miR164a-5p,

bdi-miR164b, bdi-miR164c-3p, bdi-miR164c-5p, bdi-miR164e, bdi-miR164f, bdi-miR166a-3p, bdi-miR166a-5p, bdi-miR166b-3p, bdi-miR166b-5p, bdi-miR166c-3p, bdi-miR166c-5p, bdi-miR166d-3p, bdi-miR166d-5p, bdi-miR166e-3p, bdi-miR166e-5p, bdi-miR166f, bdi-miR166g-3p, bdi-miR166g-5p, bdi-miR166h-3p, bdi-miR166h-5p, bdi-miR166i-3p, bdi-miR166i-5p, bdi-miR166j, bdi-miR167a, bdi-miR167b, bdi-miR167c-3p, bdi-miR167c-5p, bdi-miR167d-3p, bdi-miR167d-5p, bdi-miR167e-3p, bdi-miR167e-5p, bdi-miR167f, bdi-miR167g, bdi-miR168-3p, bdi-miR168-5p, bdi-miR169a-3p, bdi-miR169a-5p, bdi-miR169b, bdi-miR169c-3p, bdi-miR169c-5p, bdi-miR169d, bdi-miR169e-3p, bdi-miR169e-5p, bdi-miR169f, bdi-miR169g, bdi-miR169h-3p, bdi-miR169h-5p, bdi-miR169i, bdi-miR169j-3p, bdi-miR169j-5p, bdi-miR169k-3p, bdi-miR169k-5p, bdi-miR169l, bdi-miR169m, bdi-miR169n, bdi-miR171a, bdi-miR171b, bdi-miR171c-3p, bdi-miR171c-5p, bdi-miR171d-3p, bdi-miR171d-5p, bdi-miR171e, bdi-miR171f, bdi-miR172a-3p, bdi-miR172a-5p, bdi-miR172b, bdi-miR172d, bdi-miR1878-3p, bdi-miR1878-5p, bdi-miR2118a, bdi-miR2118b, bdi-miR2275a, bdi-miR2275b, bdi-miR2275c, bdi-miR319a, bdi-miR319b-3p, bdi-miR319b-5p, bdi-miR390a-3p, bdi-miR390a-5p, bdi-miR393a, bdi-miR393b-3p, bdi-miR393b-5p, bdi-miR394, bdi-miR395a, bdi-miR395b, bdi-miR395c-3p, bdi-miR395c-5p, bdi-miR395d-3p, bdi-miR395d-5p, bdi-miR395e-3p, bdi-miR395e-5p, bdi-miR395f-3p, bdi-miR395f-5p, bdi-miR395g-3p, bdi-miR395g-5p, bdi-miR395h-3p, bdi-miR395h-5p, bdi-miR395j-3p, bdi-miR395j-5p, bdi-miR395k-3p, bdi-miR395k-5p, bdi-miR395l-3p, bdi-miR395l-5p, bdi-miR395m, bdi-miR395n-3p, bdi-miR395n-5p, bdi-miR395o-3p, bdi-miR395o-5p, bdi-miR395p-3p, bdi-miR395p-5p, bdi-miR395q, bdi-miR396a-3p, bdi-miR396a-5p, bdi-miR396b-3p, bdi-miR396b-5p, bdi-miR396c-3p, bdi-miR396c-5p, bdi-miR396d-3p, bdi-miR396d-5p, bdi-miR396e-3p, bdi-miR396e-5p, bdi-miR397a, bdi-miR397b-3p, bdi-miR397b-5p, bdi-miR398a, bdi-miR398b, bdi-miR399a, bdi-miR399b, bdi-miR399c, bdi-miR399d, bdi-miR408-3p, bdi-miR408-5p, bdi-miR437, bdi-miR444a, bdi-miR444b, bdi-miR444c, bdi-miR444d, bdi-miR5049-3p, bdi-miR5049-5p, bdi-miR5054, bdi-miR5055, bdi-miR5056, bdi-miR5057, bdi-miR5058, bdi-miR5059, bdi-miR5060, bdi-miR5061, bdi-miR5062a, bdi-miR5063, bdi-miR5064, bdi-miR5065, bdi-miR5066, bdi-miR5067, bdi-miR5068, bdi-miR5069, bdi-miR5070, bdi-miR5163a-3p, bdi-miR5163a-5p, bdi-miR5163b-3p, bdi-miR5163b-5p, bdi-miR5164, bdi-miR5165-3p, bdi-miR5165-5p, bdi-miR5166, bdi-miR5167a-3p, bdi-miR5167a-5p, bdi-miR5167b-3p, bdi-miR5167b-5p, bdi-miR5169a, bdi-miR5169b, bdi-miR5170, bdi-miR5171a, bdi-miR5171b, bdi-miR5172-3p, bdi-miR5172-5p, bdi-miR5173-3p, bdi-miR5173-5p, bdi-miR5174a, bdi-miR5174b-3p, bdi-miR5174b-5p, bdi-miR5174c-3p, bdi-miR5174c-5p, bdi-miR5174d-3p, bdi-miR5174d-5p, bdi-miR5174e-3p.1,

bdi-miR5174e-3p.2, bdi-miR5174e-5p.1, bdi-miR5174e-5p.2, bdi-miR5174f, bdi-miR5175a, bdi-miR5175b, bdi-miR5176-3p, bdi-miR5176-5p, bdi-miR5177, bdi-miR5178-3p, bdi-miR5178-5p, bdi-miR5179, bdi-miR5180a, bdi-miR5180b, bdi-miR5181a-3p, bdi-miR5181a-5p, bdi-miR5181b, bdi-miR5181c-3p, bdi-miR5181c-5p, bdi-miR5181d, bdi-miR5181e, bdi-miR5182, bdi-miR5183, bdi-miR5184, bdi-miR5185a-3p, bdi-miR5185a-5p, bdi-miR5185b-3p, bdi-miR5185b-5p, bdi-miR5185c-3p, bdi-miR5185c-5p, bdi-miR5185d-3p, bdi-miR5185d-5p, bdi-miR5185e-3p, bdi-miR5185e-5p, bdi-miR5185f-3p, bdi-miR5185f-5p, bdi-miR5185g-3p, bdi-miR5185g-5p, bdi-miR5185h-3p, bdi-miR5185h-5p, bdi-miR5185i-3p, bdi-miR5185i-5p, bdi-miR5185j-3p, bdi-miR5185j-5p, bdi-miR5185k-3p, bdi-miR5185k-5p, bdi-miR5185l-3p, bdi-miR5185l-5p, bdi-miR5185m-3p, bdi-miR5185m-5p, bdi-miR5198, bdi-miR5199, bdi-miR5200a-3p, bdi-miR5200a-5p, bdi-miR5200b-3p, bdi-miR5200b-5p, bdi-miR5200c, bdi-miR5201-3p, bdi-miR5201-5p, bdi-miR5202, bdi-miR528-3p, bdi-miR528-5p, bdi-miR5281a, bdi-miR5281b, bdi-miR529-3p, bdi-miR529-5p, bdi-miR530a, bdi-miR530b, bdi-miR531, bdi-miR7707-3p, bdi-miR7707-5p, bdi-miR7708a-3p, bdi-miR7708a-5p, bdi-miR7708b-3p, bdi-miR7708b-5p, bdi-miR7709-3p, bdi-miR7709-5p, bdi-miR7710-3p, bdi-miR7710-5p, bdi-miR7711-3p.1, bdi-miR7711-3p.3, bdi-miR7711-3p.4, bdi-miR7711-5p.1, bdi-miR7711-5p.2, bdi-miR7711-5p.3, bdi-miR7711-5p.4, bdi-miR7712-3p, bdi-miR7712-5p, bdi-miR7713-3p, bdi-miR7713-5p, bdi-miR7714-3p, bdi-miR7714-5p, bdi-miR7715-3p, bdi-miR7715-5p, bdi-miR7716-3p, bdi-miR7716-5p, bdi-miR7717a-3p, bdi-miR7717a-5p, bdi-miR7717b-3p, bdi-miR7717b-5p, bdi-miR7717c-3p, bdi-miR7717c-5p, bdi-miR7718-3p, bdi-miR7718-5p, bdi-miR7719-3p, bdi-miR7719-5p, bdi-miR7720-3p, bdi-miR7720-5p, bdi-miR7721-3p, bdi-miR7721-5p, bdi-miR7722-3p, bdi-miR7722-5p, bdi-miR7723a-3p, bdi-miR7723a-5p, bdi-miR7723b-3p, bdi-miR7723b-5p, bdi-miR7724a-3p, bdi-miR7724a-5p, bdi-miR7724b-3p, bdi-miR7724b-5p, bdi-miR7725a-3p, bdi-miR7725a-5p, bdi-miR7725b-3p.1, bdi-miR7725b-3p.2, bdi-miR7725b-5p.1, bdi-miR7725b-5p.2, bdi-miR7726a-3p, bdi-miR7726a-5p, bdi-miR7726b-3p, bdi-miR7726b-5p, bdi-miR7727-3p, bdi-miR7727-5p, bdi-miR7728-3p, bdi-miR7728-5p, bdi-miR7729a-3p, bdi-miR7729a-5p, bdi-miR7729b-3p, bdi-miR7729b-5p, bdi-miR7730-3p, bdi-miR7730-5p, bdi-miR7731-3p, bdi-miR7731-5p, bdi-miR7732-3p, bdi-miR7732-5p, bdi-miR7733-3p, bdi-miR7733-5p, bdi-miR7734-3p, bdi-miR7734-5p, bdi-miR7735-3p, bdi-miR7735-5p, bdi-miR7736-3p, bdi-miR7736-5p, bdi-miR7737-3p, bdi-miR7737-5p, bdi-miR7738-3p, bdi-miR7738-5p, bdi-miR7739-3p, bdi-miR7739-5p, bdi-miR7740-3p, bdi-miR7740-5p, bdi-miR7741-3p.1, bdi-miR7741-3p.2, bdi-miR7741-5p.1, bdi-miR7741-5p.2, bdi-miR7742-3p, bdi-miR7742-5p, bdi-miR7743-3p, bdi-miR7743-5p, bdi-miR7744-3p, bdi-miR7744-5p, bdi-

miR7745-3p, bdi-miR7745-5p, bdi-miR7746-3p, bdi-miR7746-5p, bdi-miR7747-3p, bdi-miR7747-5p, bdi-miR7748a-3p, bdi-miR7748a-5p, bdi-miR7748b-3p, bdi-miR7748b-5p, bdi-miR7749-3p, bdi-miR7749-5p, bdi-miR7750-3p, bdi-miR7750-5p, bdi-miR7751-3p, bdi-miR7751-5p, bdi-miR7752-3p, bdi-miR7752-5p, bdi-miR7753-3p, bdi-miR7753-5p, bdi-miR7754-3p, bdi-miR7754-5p, bdi-miR7755-3p, bdi-miR7755-5p, bdi-miR7756-3p, bdi-miR7756-5p, bdi-miR7757-3p.1, bdi-miR7757-3p.2, bdi-miR7757-5p.1, bdi-miR7757-5p.2, bdi-miR7758-3p, bdi-miR7758-5p, bdi-miR7759-3p, bdi-miR7759-5p, bdi-miR7760-3p, bdi-miR7760-5p, bdi-miR7761-3p, bdi-miR7761-5p, bdi-miR7762-3p, bdi-miR7762-5p, bdi-miR7763-3p, bdi-miR7763-5p, bdi-miR7764-3p, bdi-miR7764-5p, bdi-miR7765-3p, bdi-miR7765-5p, bdi-miR7766-3p, bdi-miR7766-5p, bdi-miR7767-3p, bdi-miR7767-5p, bdi-miR7768a-3p, bdi-miR7768a-5p, bdi-miR7768b-3p, bdi-miR7768b-5p, bdi-miR7769-3p, bdi-miR7769-5p, bdi-miR7770-3p, bdi-miR7770-5p, bdi-miR7771-3p, bdi-miR7771-5p, bdi-miR7772-3p, bdi-miR7772-5p, bdi-miR7773-3p, bdi-miR7773-5p, bdi-miR7774-3p, bdi-miR7774-5p, bdi-miR7775-3p, bdi-miR7775-5p, bdi-miR7776-3p.1, bdi-miR7776-3p.2, bdi-miR7776-5p.1, bdi-miR7776-5p.2, bdi-miR7777-3p.1, bdi-miR7777-3p.2, bdi-miR7777-5p.1, bdi-miR7777-5p.2, bdi-miR7778-3p, bdi-miR7778-5p, bdi-miR7779-3p, bdi-miR7779-5p, bdi-miR7780-3p, bdi-miR7780-5p, bdi-miR7781-3p, bdi-miR7781-5p, bdi-miR7782-3p, bdi-miR7782-5p, bdi-miR7783-3p, bdi-miR7783-5p, bdi-miR7784a-3p, bdi-miR7784a-5p, bdi-miR7784b-3p, bdi-miR7784b-5p, bdi-miR7785-3p, bdi-miR7785-5p, bdi-miR7786-3p, bdi-miR7786-5p, bdi-miR7787-3p, bdi-miR7787-5p, bdi-miR827-3p, bdi-miR827-5p, bdi-miR845, bdi-miR9480a, bdi-miR9480b, bdi-miR9481a, bdi-miR9481b, bdi-miR9482, bdi-miR9483a, bdi-miR9483b, bdi-miR9484, bdi-miR9485, bdi-miR9486a, bdi-miR9486b, bdi-miR9487, bdi-miR9488, bdi-miR9489, bdi-miR9490, bdi-miR9491, bdi-miR9492, bdi-miR9493, bdi-miR9494, bdi-miR9495, bdi-miR9496, bdi-miR9497, bdi-miR9498, bdi-miR9499, bdo-bantam, bdo-let-7, bdo-miR-1, bdo-miR-10, bdo-miR-100, bdo-miR-1000, bdo-miR-11, bdo-miR-11593, bdo-miR-11594, bdo-miR-11595, bdo-miR-11596, bdo-miR-11597, bdo-miR-12, bdo-miR-124, bdo-miR-125, bdo-miR-137, bdo-miR-13a, bdo-miR-13b, bdo-miR-14, bdo-miR-184, bdo-miR-190, bdo-miR-193, bdo-miR-210, bdo-miR-219, bdo-miR-252, bdo-miR-263a, bdo-miR-263b, bdo-miR-275, bdo-miR-276a, bdo-miR-276b, bdo-miR-281, bdo-miR-282, bdo-miR-283, bdo-miR-284, bdo-miR-286, bdo-miR-2a, bdo-miR-2a-2, bdo-miR-2b, bdo-miR-2c, bdo-miR-304, bdo-miR-305, bdo-miR-306, bdo-miR-307, bdo-miR-308, bdo-miR-309a, bdo-miR-309b, bdo-miR-315, bdo-miR-316, bdo-miR-318, bdo-miR-375, bdo-miR-4, bdo-miR-5a, bdo-miR-5b, bdo-miR-6, bdo-miR-7, bdo-miR-79, bdo-miR-8, bdo-miR-87, bdo-miR-927, bdo-miR-929, bdo-miR-92b, bdo-miR-932, bdo-

miR-958, bdo-miR-970, bdo-miR-971, bdo-miR-980, bdo-miR-981, bdo-miR-988, bdo-miR-993, bdo-miR-994, bdo-miR-995, bdo-miR-996, bdo-miR-998, bdo-miR-999, bdo-miR-9b, bdo-miR-9c, bdo-miR-iab-4, bdo-miR-iab-8, bfl-let-7a-3p, bfl-let-7a-5p, bfl-let-7b, bfl-miR-1-3p, bfl-miR-1-5p, bfl-miR-100-3p, bfl-miR-100-5p, bfl-miR-10a-3p, bfl-miR-10a-5p, bfl-miR-10b, bfl-miR-10c, bfl-miR-124-3p, bfl-miR-124-5p, bfl-miR-125a-3p, bfl-miR-125a-5p, bfl-miR-125b, bfl-miR-129a-3p, bfl-miR-129a-5p, bfl-miR-129b, bfl-miR-133, bfl-miR-135a, bfl-miR-135b, bfl-miR-137, bfl-miR-153, bfl-miR-182a, bfl-miR-182b-3p, bfl-miR-182c, bfl-miR-182d, bfl-miR-183, bfl-miR-184-3p, bfl-miR-184-5p, bfl-miR-19-3p, bfl-miR-190, bfl-miR-193a, bfl-miR-193b, bfl-miR-200a, bfl-miR-200b, bfl-miR-200c, bfl-miR-2013, bfl-miR-2056, bfl-miR-2057, bfl-miR-2058-3p, bfl-miR-2058-5p, bfl-miR-2059-3p, bfl-miR-2059-5p, bfl-miR-2060, bfl-miR-2061, bfl-miR-2062-3p, bfl-miR-2062-5p, bfl-miR-2063, bfl-miR-2064, bfl-miR-2065, bfl-miR-2066, bfl-miR-2067, bfl-miR-2068-3p, bfl-miR-2068-5p, bfl-miR-2069, bfl-miR-2070-3p, bfl-miR-2070-5p, bfl-miR-2071-3p, bfl-miR-2071-5p, bfl-miR-2072-3p, bfl-miR-2072-5p, bfl-miR-2073, bfl-miR-2075, bfl-miR-2076-3p, bfl-miR-2076-5p, bfl-miR-210-3p, bfl-miR-210-5p, bfl-miR-216-3p, bfl-miR-216-5p, bfl-miR-217, bfl-miR-219, bfl-miR-22-3p, bfl-miR-22-5p, bfl-miR-242, bfl-miR-252a, bfl-miR-252b-3p, bfl-miR-252b-5p, bfl-miR-278, bfl-miR-281, bfl-miR-29a-3p, bfl-miR-29a-5p, bfl-miR-29b-3p, bfl-miR-29b-5p, bfl-miR-31-3p, bfl-miR-31-5p, bfl-miR-33, bfl-miR-34a, bfl-miR-34b-3p, bfl-miR-34b-5p, bfl-miR-34c, bfl-miR-34d, bfl-miR-34e, bfl-miR-375, bfl-miR-4057, bfl-miR-4856a, bfl-miR-4856b-3p, bfl-miR-4856b-5p, bfl-miR-4857, bfl-miR-4858-3p, bfl-miR-4858-5p, bfl-miR-4859-3p, bfl-miR-4859-5p, bfl-miR-4860-3p, bfl-miR-4860-5p, bfl-miR-4861, bfl-miR-4862-3p, bfl-miR-4862-5p, bfl-miR-4863-3p, bfl-miR-4863-5p, bfl-miR-4864-3p, bfl-miR-4864-5p, bfl-miR-4865-3p, bfl-miR-4865-5p, bfl-miR-4866-3p, bfl-miR-4866-5p, bfl-miR-4867, bfl-miR-4868a, bfl-miR-4868b, bfl-miR-4868c-3p, bfl-miR-4868c-5p, bfl-miR-4869-3p, bfl-miR-4869-5p, bfl-miR-4870, bfl-miR-4871-3p, bfl-miR-4871-5p, bfl-miR-4872a, bfl-miR-4872b, bfl-miR-4872c, bfl-miR-4873, bfl-miR-4874-3p, bfl-miR-4874-5p, bfl-miR-4875a-5p, bfl-miR-4875b-5p, bfl-miR-4875c-3p, bfl-miR-4875d-3p, bfl-miR-4876, bfl-miR-4877, bfl-miR-4878, bfl-miR-4879, bfl-miR-4880, bfl-miR-4881, bfl-miR-4882a, bfl-miR-4882b, bfl-miR-4882c, bfl-miR-4883, bfl-miR-4884, bfl-miR-4885, bfl-miR-4886, bfl-miR-4887, bfl-miR-4888, bfl-miR-4889a, bfl-miR-4889b, bfl-miR-4890, bfl-miR-4891-3p, bfl-miR-4891-5p, bfl-miR-4892, bfl-miR-4893, bfl-miR-4894, bfl-miR-4895, bfl-miR-4897, bfl-miR-4898, bfl-miR-4899, bfl-miR-4900a, bfl-miR-4900b, bfl-miR-4901, bfl-miR-4902, bfl-miR-4903, bfl-miR-4904-3p, bfl-miR-4904-5p, bfl-miR-4905, bfl-miR-4906, bfl-miR-4928, bfl-miR-7, bfl-miR-705, bfl-miR-71-3p, bfl-miR-71-5p, bfl-miR-9-3p,

bfl-miR-9-5p, bfl-miR-92a, bfl-miR-92b-3p, bfl-miR-92b-5p, bfl-miR-92c, bfl-miR-92d-5p, bfl-miR-96-3p, bfl-miR-96-5p, bfv-miR-BF1-3p, bfv-miR-BF1-5p, bfv-miR-BF2-3p, bfv-miR-BF2-5p, bgy-miR156, bgy-miR396a, bgy-miR396b, bgy-miR529, bhv1-miR-B1, bhv1-miR-B10, bhv1-miR-B2, bhv1-miR-B3, bhv1-miR-B4, bhv1-miR-B5, bhv1-miR-B6-3p, bhv1-miR-B6-5p, bhv1-miR-B7, bhv1-miR-B8-3p, bhv1-miR-B8-5p, bhv1-miR-B9, bhv5-miR-B11, bhv5-miR-B12, bhv5-miR-B13, bhv5-miR-B14, bhv5-miR-B8, bib-miR-193, bib-miR-2788, bkv-miR-B1-3p, bkv-miR-B1-5p, blv-miR-B1-3p, blv-miR-B1-5p, blv-miR-B2-3p, blv-miR-B2-5p, blv-miR-B3-3p, blv-miR-B3-5p, blv-miR-B4-3p, blv-miR-B4-5p, blv-miR-B5-3p, blv-miR-B5-5p, bma-let-7, bma-lin-4, bma-miR-100a, bma-miR-100b, bma-miR-100c, bma-miR-100d, bma-miR-1175, bma-miR-124, bma-miR-133, bma-miR-153, bma-miR-1822, bma-miR-228, bma-miR-232, bma-miR-234, bma-miR-236, bma-miR-239-3p, bma-miR-239-5p, bma-miR-250, bma-miR-252, bma-miR-268, bma-miR-279, bma-miR-281-3p, bma-miR-281-5p, bma-miR-283, bma-miR-2a, bma-miR-2b-3p, bma-miR-2b-5p, bma-miR-2c, bma-miR-2d, bma-miR-2e, bma-miR-2f, bma-miR-2g-3p, bma-miR-2g-5p, bma-miR-2h-3p, bma-miR-2h-5p, bma-miR-2i-3p, bma-miR-2i-5p, bma-miR-307, bma-miR-34, bma-miR-36a, bma-miR-36a-3, bma-miR-36b-3p, bma-miR-36b-5p, bma-miR-36c-3p, bma-miR-36c-5p, bma-miR-36d-3p, bma-miR-36d-5p, bma-miR-45, bma-miR-49, bma-miR-50, bma-miR-5360, bma-miR-5361, bma-miR-5363-3p, bma-miR-5363-5p, bma-miR-5364, bma-miR-5365a, bma-miR-5365b, bma-miR-5366-3p, bma-miR-5366-5p, bma-miR-57, bma-miR-5838-3p, bma-miR-5838-5p, bma-miR-5839-3p, bma-miR-5839-5p, bma-miR-5840, bma-miR-5841-3p, bma-miR-5841-5p, bma-miR-5842-3p, bma-miR-5842-5p, bma-miR-5843, bma-miR-5844, bma-miR-5845, bma-miR-5846, bma-miR-5847, bma-miR-5848, bma-miR-5849, bma-miR-5851, bma-miR-5852, bma-miR-5853, bma-miR-5854, bma-miR-5855, bma-miR-5856a, bma-miR-5856b, bma-miR-5857, bma-miR-5858-3p, bma-miR-5858-5p, bma-miR-5859, bma-miR-5861, bma-miR-5862-3p, bma-miR-5862-5p, bma-miR-5863, bma-miR-5864, bma-miR-5865, bma-miR-5866, bma-miR-5867, bma-miR-5868, bma-miR-5869, bma-miR-5871, bma-miR-5872, bma-miR-5873, bma-miR-5874, bma-miR-5875, bma-miR-5876, bma-miR-5877, bma-miR-5878, bma-miR-5879a, bma-miR-5879b, bma-miR-5880a, bma-miR-5880b, bma-miR-5881a, bma-miR-5881b, bma-miR-5882a, bma-miR-5882b, bma-miR-5883, bma-miR-60, bma-miR-7, bma-miR-71, bma-miR-72, bma-miR-750, bma-miR-81, bma-miR-84-3p, bma-miR-84-5p, bma-miR-86, bma-miR-87a, bma-miR-87b, bma-miR-9-3p, bma-miR-9-5p, bma-miR-92, bma-miR-9501-3p, bma-miR-9502, bma-miR-9503, bma-miR-9504, bma-miR-9505-3p, bma-miR-9505-5p, bma-miR-9506-3p, bma-miR-9507, bma-miR-9508-5p, bma-miR-9509-3p, bma-miR-9510, bma-miR-9511-3p, bma-miR-

9512, bma-miR-9513-5p, bma-miR-9514, bma-miR-9515, bma-miR-9516, bma-miR-9517-3p, bma-miR-9517-5p, bma-miR-9518, bma-miR-9519, bma-miR-9520, bma-miR-9521, bma-miR-9522, bma-miR-9523, bma-miR-9525, bma-miR-9526, bma-miR-9527, bma-miR-9528, bma-miR-9529, bma-miR-9530, bma-miR-9531, bma-miR-9532, bma-miR-9533, bma-miR-9534, bma-miR-9535, bma-miR-9536, bma-miR-9537, bmo-bantam-3p, bmo-bantam-5p, bmo-let-7-3p, bmo-let-7-5p, bmo-miR-10-3p, bmo-miR-10-5p, bmo-miR-100, bmo-miR-1000, bmo-miR-11-3p, bmo-miR-11-5p, bmo-miR-1175-3p, bmo-miR-1175-5p, bmo-miR-12, bmo-miR-124, bmo-miR-133, bmo-miR-137, bmo-miR-13a-3p, bmo-miR-13a-5p, bmo-miR-13b-3p, bmo-miR-13b-5p, bmo-miR-14-3p, bmo-miR-14-5p, bmo-miR-184-3p, bmo-miR-184-5p, bmo-miR-190-3p, bmo-miR-190-5p, bmo-miR-1923, bmo-miR-1926, bmo-miR-1a-3p, bmo-miR-1a-5p, bmo-miR-1b-3p, bmo-miR-1b-5p, bmo-miR-210, bmo-miR-252-3p, bmo-miR-252-5p, bmo-miR-263a-3p, bmo-miR-263a-5p, bmo-miR-263b-3p, bmo-miR-263b-5p, bmo-miR-2723, bmo-miR-2724, bmo-miR-2729, bmo-miR-2731, bmo-miR-2733a-3p, bmo-miR-2733a-5p, bmo-miR-2733b, bmo-miR-2733c, bmo-miR-2733d, bmo-miR-2733e, bmo-miR-2733f, bmo-miR-2733g, bmo-miR-2733h, bmo-miR-2733i-3p, bmo-miR-2733i-5p, bmo-miR-2733j, bmo-miR-2734, bmo-miR-2736, bmo-miR-2737, bmo-miR-2738, bmo-miR-2739, bmo-miR-274-3p, bmo-miR-274-5p, bmo-miR-2742, bmo-miR-2744, bmo-miR-2745, bmo-miR-2748, bmo-miR-275-3p, bmo-miR-275-5p, bmo-miR-2751, bmo-miR-2752, bmo-miR-2753, bmo-miR-2754, bmo-miR-2755-3p, bmo-miR-2755-5p, bmo-miR-2756-3p, bmo-miR-2756-5p, bmo-miR-2757-3p, bmo-miR-2757-5p, bmo-miR-2758-3p, bmo-miR-2758-5p, bmo-miR-2759, bmo-miR-276-3p, bmo-miR-276-5p, bmo-miR-2760-3p, bmo-miR-2760-5p, bmo-miR-2761-3p, bmo-miR-2761-5p, bmo-miR-2762, bmo-miR-2763-3p, bmo-miR-2763-5p, bmo-miR-2764, bmo-miR-2765, bmo-miR-2766-3p, bmo-miR-2766-5p, bmo-miR-2767, bmo-miR-2768-3p, bmo-miR-2768-5p, bmo-miR-2769, bmo-miR-277-3p, bmo-miR-277-5p, bmo-miR-2770-3p, bmo-miR-2770-5p, bmo-miR-2771-3p, bmo-miR-2771-5p, bmo-miR-2772a, bmo-miR-2772b, bmo-miR-2774a, bmo-miR-2774b, bmo-miR-2774c, bmo-miR-2775a, bmo-miR-2775b, bmo-miR-2776, bmo-miR-2777-3p, bmo-miR-2777-5p, bmo-miR-2778a-2-5p, bmo-miR-2778a-3p, bmo-miR-2778a-4-5p, bmo-miR-2778a-5p, bmo-miR-2778b-3p, bmo-miR-2778b-5p, bmo-miR-2778c-3p, bmo-miR-2778c-5p, bmo-miR-2778d-3p, bmo-miR-2778d-5p, bmo-miR-2779, bmo-miR-278-3p, bmo-miR-278-5p, bmo-miR-2780a-3p, bmo-miR-2780a-5p, bmo-miR-2780b, bmo-miR-2780c, bmo-miR-2780d, bmo-miR-2781, bmo-miR-2782, bmo-miR-2783, bmo-miR-2784, bmo-miR-2785, bmo-miR-2786, bmo-miR-2787-3p, bmo-miR-2787-5p, bmo-miR-2788, bmo-miR-2789, bmo-miR-2790-3p, bmo-miR-2790-5p, bmo-miR-2791, bmo-miR-2792-3p, bmo-

miR-2792-5p, bmo-miR-2794, bmo-miR-2795, bmo-miR-2796-3p, bmo-miR-2796-5p, bmo-miR-2797a, bmo-miR-2797b, bmo-miR-2797c, bmo-miR-2797d, bmo-miR-2798, bmo-miR-2799, bmo-miR-279a, bmo-miR-279b-3p, bmo-miR-279b-5p, bmo-miR-279c-3p, bmo-miR-279c-5p, bmo-miR-279d-3p, bmo-miR-279d-5p, bmo-miR-279e, bmo-miR-2800, bmo-miR-2801, bmo-miR-2803, bmo-miR-2804-3p, bmo-miR-2804-5p, bmo-miR-2805, bmo-miR-2806, bmo-miR-2807a, bmo-miR-2807b, bmo-miR-2807c-3p, bmo-miR-2807c-5p, bmo-miR-2807d, bmo-miR-2808a-3p, bmo-miR-2808a-5p, bmo-miR-2808b, bmo-miR-2808c, bmo-miR-2808d, bmo-miR-2808e, bmo-miR-2809, bmo-miR-281-3p, bmo-miR-281-5p, bmo-miR-2810, bmo-miR-2812, bmo-miR-2813, bmo-miR-2814, bmo-miR-2816, bmo-miR-2817, bmo-miR-2818, bmo-miR-2819, bmo-miR-282-3p, bmo-miR-282-5p, bmo-miR-2820, bmo-miR-2821, bmo-miR-2822, bmo-miR-2824, bmo-miR-2825, bmo-miR-2826, bmo-miR-2827, bmo-miR-2828, bmo-miR-283-3p, bmo-miR-283-5p, bmo-miR-2830, bmo-miR-2831, bmo-miR-2832, bmo-miR-2833, bmo-miR-2833b, bmo-miR-2834, bmo-miR-2835, bmo-miR-2836, bmo-miR-2837, bmo-miR-2838, bmo-miR-2839-3p, bmo-miR-2839-5p, bmo-miR-2840, bmo-miR-2841, bmo-miR-2842, bmo-miR-2843-1-3p, bmo-miR-2843-2-3p, bmo-miR-2843-5p, bmo-miR-2845, bmo-miR-2846, bmo-miR-2847, bmo-miR-2848, bmo-miR-2849, bmo-miR-285, bmo-miR-2851, bmo-miR-2852, bmo-miR-2854, bmo-miR-2855, bmo-miR-2856-3p, bmo-miR-2856-5p, bmo-miR-2857, bmo-miR-2859, bmo-miR-2860, bmo-miR-2998, bmo-miR-2999, bmo-miR-2a-1-5p, bmo-miR-2a-2-5p, bmo-miR-2a-3p, bmo-miR-2b-3p, bmo-miR-2b-5p, bmo-miR-3000, bmo-miR-3001, bmo-miR-305-3p, bmo-miR-305-5p, bmo-miR-306a-3p, bmo-miR-306a-5p, bmo-miR-306b, bmo-miR-307-3p, bmo-miR-307-5p, bmo-miR-308-3p, bmo-miR-308-5p, bmo-miR-31-3p, bmo-miR-31-5p, bmo-miR-316-3p, bmo-miR-316-5p, bmo-miR-317-3p, bmo-miR-317-5p, bmo-miR-3203-3p, bmo-miR-3203-5p, bmo-miR-3204a-3p, bmo-miR-3204a-5p, bmo-miR-3204b, bmo-miR-3205, bmo-miR-3206, bmo-miR-3207, bmo-miR-3208, bmo-miR-3209, bmo-miR-3210, bmo-miR-3211, bmo-miR-3212, bmo-miR-3213-3p, bmo-miR-3213-5p, bmo-miR-3214, bmo-miR-3215, bmo-miR-3216, bmo-miR-3217, bmo-miR-3218, bmo-miR-3219, bmo-miR-3220, bmo-miR-3221, bmo-miR-3222, bmo-miR-3223-3p, bmo-miR-3223-5p, bmo-miR-3224, bmo-miR-3225, bmo-miR-3226, bmo-miR-3227, bmo-miR-3228, bmo-miR-3229, bmo-miR-3230, bmo-miR-3231, bmo-miR-3232, bmo-miR-3233, bmo-miR-3234, bmo-miR-3235, bmo-miR-3236, bmo-miR-3237, bmo-miR-3238, bmo-miR-3239, bmo-miR-3241, bmo-miR-3242, bmo-miR-3243, bmo-miR-3244, bmo-miR-3245, bmo-miR-3246, bmo-miR-3247, bmo-miR-3248, bmo-miR-3249, bmo-miR-3250, bmo-miR-3251, bmo-miR-3252, bmo-miR-3253, bmo-miR-3254, bmo-miR-3255, bmo-miR-3256, bmo-miR-3257-3p, bmo-

miR-3257-5p, bmo-miR-3258, bmo-miR-3259, bmo-miR-3260, bmo-miR-3261, bmo-miR-3262, bmo-miR-3263, bmo-miR-3264, bmo-miR-3265, bmo-miR-3266, bmo-miR-3267a, bmo-miR-3267b, bmo-miR-3267c, bmo-miR-3268-3p, bmo-miR-3268-5p, bmo-miR-3269, bmo-miR-3270, bmo-miR-3271, bmo-miR-3272, bmo-miR-3273, bmo-miR-3274, bmo-miR-3275, bmo-miR-3276, bmo-miR-3277, bmo-miR-3278, bmo-miR-3279, bmo-miR-3280, bmo-miR-3282, bmo-miR-3283, bmo-miR-3284, bmo-miR-3285, bmo-miR-3286-3p, bmo-miR-3286-5p, bmo-miR-3287, bmo-miR-3288, bmo-miR-3289, bmo-miR-3290, bmo-miR-3291, bmo-miR-3292, bmo-miR-3293, bmo-miR-3294, bmo-miR-3295, bmo-miR-3296-3p, bmo-miR-3296-5p, bmo-miR-3297-3p, bmo-miR-3297-5p, bmo-miR-3298, bmo-miR-3299, bmo-miR-33-3p, bmo-miR-33-5p, bmo-miR-3301, bmo-miR-3302, bmo-miR-3303, bmo-miR-3304a, bmo-miR-3305, bmo-miR-3306, bmo-miR-3307, bmo-miR-3308-3p, bmo-miR-3308-5p, bmo-miR-3309, bmo-miR-3310, bmo-miR-3311, bmo-miR-3312, bmo-miR-3314, bmo-miR-3315, bmo-miR-3316, bmo-miR-3317, bmo-miR-3318, bmo-miR-3319, bmo-miR-3321, bmo-miR-3322, bmo-miR-3323, bmo-miR-3324, bmo-miR-3325, bmo-miR-3326, bmo-miR-3327-3p, bmo-miR-3327-5p, bmo-miR-3328, bmo-miR-3329, bmo-miR-3330, bmo-miR-3332, bmo-miR-3333, bmo-miR-3334, bmo-miR-3335, bmo-miR-3336, bmo-miR-3337, bmo-miR-3338-3p, bmo-miR-3338-5p, bmo-miR-3339, bmo-miR-3340, bmo-miR-3342, bmo-miR-3343, bmo-miR-3344, bmo-miR-3345, bmo-miR-3347a, bmo-miR-3347b, bmo-miR-3348, bmo-miR-3350, bmo-miR-3351, bmo-miR-3352, bmo-miR-3353, bmo-miR-3354, bmo-miR-3355, bmo-miR-3356, bmo-miR-3357, bmo-miR-3358, bmo-miR-3359, bmo-miR-3360, bmo-miR-3361, bmo-miR-3362, bmo-miR-3363, bmo-miR-3364, bmo-miR-3365, bmo-miR-3366, bmo-miR-3367, bmo-miR-3368, bmo-miR-3369, bmo-miR-3370, bmo-miR-3371, bmo-miR-3372-3p, bmo-miR-3372-5p, bmo-miR-3373-3p, bmo-miR-3373-5p, bmo-miR-3374-3p, bmo-miR-3374-5p, bmo-miR-3375-3p, bmo-miR-3375-5p, bmo-miR-3377-3p, bmo-miR-3377-5p, bmo-miR-3378-3p, bmo-miR-3378-5p, bmo-miR-3381-3p, bmo-miR-3381-5p, bmo-miR-3382-3p, bmo-miR-3382-5p, bmo-miR-3383-3p, bmo-miR-3383-5p, bmo-miR-3384-3p, bmo-miR-3384-5p, bmo-miR-3385-3p, bmo-miR-3385-5p, bmo-miR-3386-3p, bmo-miR-3386-5p, bmo-miR-3387-3p, bmo-miR-3387-5p, bmo-miR-3388-3p, bmo-miR-3388-5p, bmo-miR-3389-3p, bmo-miR-3389-5p, bmo-miR-3391-3p, bmo-miR-3391-5p, bmo-miR-3392, bmo-miR-3393, bmo-miR-3394, bmo-miR-3395, bmo-miR-3396, bmo-miR-3397, bmo-miR-3398, bmo-miR-3399, bmo-miR-34-3p, bmo-miR-34-5p, bmo-miR-3400, bmo-miR-3401, bmo-miR-3402, bmo-miR-3403, bmo-miR-3404, bmo-miR-3405, bmo-miR-3406-3p, bmo-miR-3406-5p, bmo-miR-3407, bmo-miR-3408, bmo-miR-3409, bmo-miR-3410, bmo-miR-3411, bmo-miR-3412, bmo-miR-3413,

bmo-miR-3414-3p, bmo-miR-3414-5p, bmo-miR-3415, bmo-miR-3416, bmo-miR-3417, bmo-miR-3418, bmo-miR-3419, bmo-miR-3420, bmo-miR-3421, bmo-miR-3422, bmo-miR-3423, bmo-miR-3424, bmo-miR-3425, bmo-miR-3426, bmo-miR-3427, bmo-miR-3428, bmo-miR-3429, bmo-miR-3430, bmo-miR-375-3p, bmo-miR-375-5p, bmo-miR-6497-3p, bmo-miR-6497-5p, bmo-miR-6498-3p, bmo-miR-6498-5p, bmo-miR-7-3p, bmo-miR-7-5p, bmo-miR-71-3p, bmo-miR-71-5p, bmo-miR-745-3p, bmo-miR-745-5p, bmo-miR-750-3p, bmo-miR-750-5p, bmo-miR-79-3p, bmo-miR-79-5p, bmo-miR-8-3p, bmo-miR-8-5p, bmo-miR-87, bmo-miR-927-3p, bmo-miR-927-5p, bmo-miR-929-3p, bmo-miR-929-5p, bmo-miR-92a, bmo-miR-92b, bmo-miR-932, bmo-miR-965-3p, bmo-miR-965-5p, bmo-miR-970-3p, bmo-miR-970-5p, bmo-miR-989a, bmo-miR-989b, bmo-miR-993a-3p, bmo-miR-993a-5p, bmo-miR-993b-3p, bmo-miR-993b-5p, bmo-miR-998, bmo-miR-9a-3p, bmo-miR-9a-5p, bmo-miR-9b-3p, bmo-miR-9b-5p, bmo-miR-9c-3p, bmo-miR-9c-5p, bmo-miR-9d, bmo-miR-iab-4-3p, bmo-miR-iab-4-5p, bmo-miR-iab-8, bna-miR1140, bna-miR156a, bna-miR156b, bna-miR156c, bna-miR156d, bna-miR156e, bna-miR156f, bna-miR156g, bna-miR159, bna-miR160a, bna-miR160b, bna-miR160c, bna-miR160d, bna-miR161, bna-miR162a, bna-miR164a, bna-miR164b, bna-miR164c, bna-miR164d, bna-miR166a, bna-miR166b, bna-miR166c, bna-miR166d, bna-miR166e, bna-miR166f, bna-miR167a, bna-miR167b, bna-miR167c, bna-miR167d, bna-miR168a, bna-miR168b, bna-miR169a, bna-miR169b, bna-miR169c, bna-miR169d, bna-miR169e, bna-miR169f, bna-miR169g, bna-miR169h, bna-miR169i, bna-miR169j, bna-miR169k, bna-miR169l, bna-miR169m, bna-miR169n, bna-miR171a, bna-miR171b, bna-miR171c, bna-miR171d, bna-miR171e, bna-miR171f, bna-miR171g, bna-miR172a, bna-miR172b, bna-miR172c, bna-miR172d, bna-miR2111a-3p, bna-miR2111a-5p, bna-miR2111b-3p, bna-miR2111b-5p, bna-miR2111c, bna-miR2111d, bna-miR390a, bna-miR390b, bna-miR390c, bna-miR393, bna-miR394a, bna-miR394b, bna-miR395a, bna-miR395b, bna-miR395c, bna-miR395d, bna-miR395e, bna-miR395f, bna-miR396a, bna-miR397a, bna-miR397b, bna-miR399a, bna-miR399b, bna-miR399c, bna-miR403, bna-miR6028, bna-miR6029, bna-miR6030, bna-miR6031, bna-miR6032, bna-miR6033, bna-miR6034, bna-miR6035, bna-miR6036, bna-miR824, bna-miR860, bol-miR157a, bol-miR171a, bol-miR172a, bol-miR172b, bol-miR398a-3p, bol-miR398a-5p, bol-miR824, bol-miR9408, bol-miR9409, bol-miR9410, bol-miR9411, bpcv1-miR-B1, bpcv2-miR-B1, bra-miR1140, bra-miR156a-3p, bra-miR156a-5p, bra-miR156b-3p, bra-miR156b-5p, bra-miR156c-3p, bra-miR156c-5p, bra-miR156d-3p, bra-miR156d-5p, bra-miR156e-3p, bra-miR156e-5p, bra-miR156f-3p, bra-miR156f-5p, bra-miR156g-3p, bra-miR156g-5p, bra-miR157a, bra-miR158-3p, bra-miR158-5p, bra-miR159a, bra-miR160a-3p,

bra-miR160a-5p, bra-miR161-3p, bra-miR161-5p, bra-miR162-3p, bra-miR162-5p, bra-miR164a, bra-miR164b-3p, bra-miR164b-5p, bra-miR164c-3p, bra-miR164c-5p, bra-miR164d-3p, bra-miR164d-5p, bra-miR164e-3p, bra-miR164e-5p, bra-miR167a, bra-miR167b, bra-miR167c, bra-miR167d, bra-miR168a-3p, bra-miR168a-5p, bra-miR168b-3p, bra-miR168b-5p, bra-miR168c-3p, bra-miR168c-5p, bra-miR171a, bra-miR171b, bra-miR171c, bra-miR171d, bra-miR171e, bra-miR172a, bra-miR172b-3p, bra-miR172b-5p, bra-miR172c-3p, bra-miR172c-5p, bra-miR172d-3p, bra-miR172d-5p, bra-miR1885a, bra-miR1885b, bra-miR2111-3p, bra-miR2111-5p, bra-miR2111a-3p, bra-miR2111a-5p, bra-miR2111b-3p, bra-miR2111b-5p, bra-miR319-3p, bra-miR319-5p, bra-miR390-3p, bra-miR390-5p, bra-miR391-3p, bra-miR391-5p, bra-miR395a-3p, bra-miR395a-5p, bra-miR395b-3p, bra-miR395b-5p, bra-miR395c-3p, bra-miR395c-5p, bra-miR395d-3p, bra-miR395d-5p, bra-miR396-3p, bra-miR396-5p, bra-miR398-3p, bra-miR398-5p, bra-miR400-3p, bra-miR400-5p, bra-miR403-3p, bra-miR403-5p, bra-miR408-3p, bra-miR408-5p, bra-miR5654a, bra-miR5654b, bra-miR5711, bra-miR5712, bra-miR5713, bra-miR5714, bra-miR5715, bra-miR5716, bra-miR5717, bra-miR5718, bra-miR5719, bra-miR5720, bra-miR5721, bra-miR5722, bra-miR5723, bra-miR5724, bra-miR5725, bra-miR5726, bra-miR6032-3p, bra-miR6032-5p, bra-miR824, bra-miR860-3p, bra-miR860-5p, bra-miR9408-3p, bra-miR9408-5p, bra-miR9552a-3p, bra-miR9552a-5p, bra-miR9552b-3p, bra-miR9552b-5p, bra-miR9553-3p, bra-miR9553-5p, bra-miR9554-3p, bra-miR9554-5p, bra-miR9555a-3p, bra-miR9555a-5p, bra-miR9555b-3p, bra-miR9555b-5p, bra-miR9556-3p, bra-miR9556-5p, bra-miR9557-3p, bra-miR9557-5p, bra-miR9558-3p, bra-miR9558-5p, bra-miR9559-3p, bra-miR9559-5p, bra-miR9560a-3p, bra-miR9560a-5p, bra-miR9560b-3p, bra-miR9560b-5p, bra-miR9561-3p, bra-miR9561-5p, bra-miR9562-3p, bra-miR9562-5p, bra-miR9563a-3p, bra-miR9563a-5p, bra-miR9563b-3p, bra-miR9563b-5p, bra-miR9564-3p, bra-miR9564-5p, bra-miR9565-3p, bra-miR9565-5p, bra-miR9566-3p, bra-miR9566-5p, bra-miR9567-3p, bra-miR9567-5p, bra-miR9568-3p, bra-miR9568-5p, bra-miR9569-3p, bra-miR9569-5p, bta-let-7a-3p, bta-let-7a-5p, bta-let-7b, bta-let-7c, bta-let-7d, bta-let-7e, bta-let-7f, bta-let-7g, bta-let-7i, bta-miR-1, bta-miR-100, bta-miR-10020, bta-miR-101, bta-miR-10161-5p, bta-miR-10162-5p, bta-miR-10163-3p, bta-miR-10164-3p, bta-miR-10165-5p, bta-miR-10166-5p, bta-miR-10167-3p, bta-miR-10168-5p, bta-miR-10169-3p, bta-miR-10170-5p, bta-miR-10171-3p, bta-miR-10172-3p, bta-miR-10172-5p, bta-miR-10173-5p, bta-miR-10174-3p, bta-miR-10174-5p, bta-miR-10175-3p, bta-miR-10175-5p, bta-miR-10176-5p, bta-miR-10177-5p, bta-miR-10178-5p, bta-miR-10179-5p, bta-miR-10180-3p, bta-miR-10181-5p, bta-miR-10182-3p, bta-miR-10182-5p, bta-miR-10183-5p, bta-miR-

10184-3p, bta-miR-10185-5p, bta-miR-10225a, bta-miR-10225b, bta-miR-103, bta-miR-105a, bta-miR-105b, bta-miR-106a, bta-miR-106b, bta-miR-107, bta-miR-10a, bta-miR-10b, bta-miR-1179, bta-miR-1185, bta-miR-1193, bta-miR-1197, bta-miR-11971, bta-miR-11972, bta-miR-11973, bta-miR-11974, bta-miR-11975, bta-miR-11976, bta-miR-11977, bta-miR-11978, bta-miR-11979, bta-miR-11980, bta-miR-11981, bta-miR-11982, bta-miR-11983, bta-miR-11984, bta-miR-11985, bta-miR-11986, bta-miR-11986b, bta-miR-11986c, bta-miR-11987, bta-miR-11988, bta-miR-11989, bta-miR-11990, bta-miR-11991, bta-miR-11992, bta-miR-11993, bta-miR-11994, bta-miR-11995, bta-miR-11996, bta-miR-11997, bta-miR-11998, bta-miR-11999, bta-miR-12000, bta-miR-12001, bta-miR-12002a, bta-miR-12002b, bta-miR-12003, bta-miR-12004, bta-miR-12005, bta-miR-12006, bta-miR-12007, bta-miR-12008, bta-miR-12009, bta-miR-12010, bta-miR-12011, bta-miR-12012, bta-miR-12013, bta-miR-12014, bta-miR-12015, bta-miR-12016, bta-miR-12017, bta-miR-12018, bta-miR-12019, bta-miR-12020, bta-miR-12021, bta-miR-12022, bta-miR-12023, bta-miR-12024, bta-miR-12025, bta-miR-12026, bta-miR-12027, bta-miR-12028, bta-miR-12029, bta-miR-12030, bta-miR-12031, bta-miR-12032, bta-miR-12033, bta-miR-12034, bta-miR-12035, bta-miR-12036, bta-miR-12037, bta-miR-12038, bta-miR-12039, bta-miR-12040, bta-miR-12041, bta-miR-12042, bta-miR-12043, bta-miR-12044, bta-miR-12045, bta-miR-12046, bta-miR-12047, bta-miR-12048, bta-miR-12049, bta-miR-12050, bta-miR-12051, bta-miR-12052, bta-miR-12053, bta-miR-12054, bta-miR-12055, bta-miR-12056, bta-miR-12057, bta-miR-12058, bta-miR-12059, bta-miR-12060, bta-miR-12061, bta-miR-12062, bta-miR-12063, bta-miR-12064, bta-miR-122, bta-miR-1224, bta-miR-1225-3p, bta-miR-1246, bta-miR-1247-3p, bta-miR-1247-5p, bta-miR-1248, bta-miR-1249, bta-miR-124a, bta-miR-124b, bta-miR-1251, bta-miR-1256, bta-miR-125a, bta-miR-125b, bta-miR-126-3p, bta-miR-126-5p, bta-miR-1260b, bta-miR-1264, bta-miR-127, bta-miR-1271, bta-miR-1277, bta-miR-128, bta-miR-1281, bta-miR-1282, bta-miR-1284, bta-miR-1287, bta-miR-129, bta-miR-129-3p, bta-miR-129-5p, bta-miR-1291, bta-miR-1296, bta-miR-1298, bta-miR-1301, bta-miR-1306, bta-miR-1307, bta-miR-130a, bta-miR-130b, bta-miR-132, bta-miR-133a, bta-miR-133b, bta-miR-133c, bta-miR-134, bta-miR-1343-3p, bta-miR-1343-5p, bta-miR-135a, bta-miR-135b, bta-miR-136, bta-miR-137, bta-miR-138, bta-miR-1388-3p, bta-miR-1388-5p, bta-miR-139, bta-miR-140, bta-miR-141, bta-miR-142-3p, bta-miR-142-5p, bta-miR-143, bta-miR-1434-3p, bta-miR-1434-5p, bta-miR-144, bta-miR-145, bta-miR-1468, bta-miR-146a, bta-miR-146b, bta-miR-147, bta-miR-148a, bta-miR-148b, bta-miR-148c, bta-miR-148d, bta-miR-149-3p, bta-miR-149-5p, bta-miR-150, bta-miR-151-3p, bta-miR-151-5p, bta-miR-152, bta-miR-153, bta-miR-154a, bta-miR-154b, bta-miR-154c, bta-miR-155, bta-miR-1584-3p, bta-

miR-1584-5p, bta-miR-15a, bta-miR-15b, bta-miR-1603, bta-miR-16a, bta-miR-16b, bta-miR-17-3p, bta-miR-17-5p, bta-miR-1721, bta-miR-1777a, bta-miR-1777b, bta-miR-1814a, bta-miR-1814b, bta-miR-1814c, bta-miR-181a, bta-miR-181b, bta-miR-181c, bta-miR-181d, bta-miR-182, bta-miR-183, bta-miR-1835, bta-miR-1839, bta-miR-184, bta-miR-1842, bta-miR-1843, bta-miR-185, bta-miR-186, bta-miR-187, bta-miR-188, bta-miR-18a, bta-miR-18b, bta-miR-190a, bta-miR-190b, bta-miR-191, bta-miR-1911, bta-miR-191b, bta-miR-192, bta-miR-193a, bta-miR-193a-3p, bta-miR-193a-5p, bta-miR-193b, bta-miR-194, bta-miR-1949, bta-miR-194b, bta-miR-194b-3p, bta-miR-195, bta-miR-196a, bta-miR-196b, bta-miR-197, bta-miR-199a-3p, bta-miR-199a-5p, bta-miR-199b, bta-miR-199c, bta-miR-19a, bta-miR-19b, bta-miR-200a, bta-miR-200b, bta-miR-200c, bta-miR-202, bta-miR-204, bta-miR-205, bta-miR-206, bta-miR-208a, bta-miR-208b, bta-miR-20a, bta-miR-20b, bta-miR-21-3p, bta-miR-21-5p, bta-miR-210, bta-miR-211, bta-miR-212, bta-miR-214, bta-miR-215, bta-miR-216a, bta-miR-216b, bta-miR-217, bta-miR-218, bta-miR-219, bta-miR-219-3p, bta-miR-219-5p, bta-miR-219b-3p, bta-miR-22-3p, bta-miR-22-5p, bta-miR-221, bta-miR-222, bta-miR-223, bta-miR-224, bta-miR-2284a, bta-miR-2284aa, bta-miR-2284ab, bta-miR-2284ac, bta-miR-2284b, bta-miR-2284c, bta-miR-2284d, bta-miR-2284e, bta-miR-2284f, bta-miR-2284g, bta-miR-2284h-3p, bta-miR-2284h-5p, bta-miR-2284i, bta-miR-2284j, bta-miR-2284k, bta-miR-2284l, bta-miR-2284m, bta-miR-2284n, bta-miR-2284o, bta-miR-2284p, bta-miR-2284q, bta-miR-2284r, bta-miR-2284s, bta-miR-2284t-3p, bta-miR-2284t-5p, bta-miR-2284u, bta-miR-2284v, bta-miR-2284w, bta-miR-2284x, bta-miR-2284y, bta-miR-2284z, bta-miR-2285a, bta-miR-2285aa, bta-miR-2285ab, bta-miR-2285ac, bta-miR-2285ad, bta-miR-2285ae, bta-miR-2285af, bta-miR-2285ag-3p, bta-miR-2285ah-5p, bta-miR-2285ai-5p, bta-miR-2285aj-5p, bta-miR-2285ak-5p, bta-miR-2285al-5p, bta-miR-2285am-5p, bta-miR-2285an, bta-miR-2285ao, bta-miR-2285ap, bta-miR-2285aq, bta-miR-2285ar, bta-miR-2285as, bta-miR-2285at, bta-miR-2285au, bta-miR-2285av, bta-miR-2285aw, bta-miR-2285ax, bta-miR-2285ay, bta-miR-2285az, bta-miR-2285b, bta-miR-2285ba, bta-miR-2285bb, bta-miR-2285bc, bta-miR-2285bd, bta-miR-2285be, bta-miR-2285bf, bta-miR-2285bg, bta-miR-2285bh, bta-miR-2285bi, bta-miR-2285bj, bta-miR-2285bk, bta-miR-2285bl, bta-miR-2285bm, bta-miR-2285bn, bta-miR-2285bo, bta-miR-2285bp, bta-miR-2285bq, bta-miR-2285br, bta-miR-2285bs, bta-miR-2285bt, bta-miR-2285bu, bta-miR-2285bv, bta-miR-2285bw, bta-miR-2285bx, bta-miR-2285by, bta-miR-2285bz, bta-miR-2285c, bta-miR-2285ca, bta-miR-2285cb, bta-miR-2285cc, bta-miR-2285cd, bta-miR-2285ce, bta-miR-2285cf, bta-miR-2285cg, bta-miR-2285ch, bta-miR-2285ci, bta-miR-2285cj, bta-miR-2285ck, bta-miR-2285cl, bta-miR-2285cm, bta-miR-

2285cn, bta-miR-2285co, bta-miR-2285cp, bta-miR-2285cq, bta-miR-2285cr, bta-miR-2285cs, bta-miR-2285ct, bta-miR-2285cu, bta-miR-2285cv, bta-miR-2285cw, bta-miR-2285cx, bta-miR-2285cy, bta-miR-2285cz, bta-miR-2285d, bta-miR-2285da, bta-miR-2285db, bta-miR-2285dc, bta-miR-2285dd, bta-miR-2285de, bta-miR-2285df, bta-miR-2285dg, bta-miR-2285dh, bta-miR-2285di, bta-miR-2285dj, bta-miR-2285dk, bta-miR-2285dl-3p, bta-miR-2285dm, bta-miR-2285e, bta-miR-2285f, bta-miR-2285g, bta-miR-2285h, bta-miR-2285i, bta-miR-2285j, bta-miR-2285k, bta-miR-2285l, bta-miR-2285m, bta-miR-2285n, bta-miR-2285o, bta-miR-2285p, bta-miR-2285q, bta-miR-2285r, bta-miR-2285s, bta-miR-2285t, bta-miR-2285u, bta-miR-2285v, bta-miR-2285w, bta-miR-2285x, bta-miR-2285y, bta-miR-2285z, bta-miR-2286, bta-miR-2287, bta-miR-2288, bta-miR-2289, bta-miR-2290, bta-miR-2291, bta-miR-2292, bta-miR-2293, bta-miR-2294, bta-miR-2295, bta-miR-2296, bta-miR-2297, bta-miR-2298, bta-miR-2299-3p, bta-miR-2299-5p, bta-miR-2300a-5p, bta-miR-2300b-3p, bta-miR-2301, bta-miR-2302, bta-miR-2303, bta-miR-2304, bta-miR-2305, bta-miR-2306, bta-miR-2307, bta-miR-2308, bta-miR-2309, bta-miR-2310, bta-miR-2311, bta-miR-2312, bta-miR-2313-3p, bta-miR-2313-5p, bta-miR-2314, bta-miR-2315, bta-miR-2316, bta-miR-2317, bta-miR-2318, bta-miR-2319a, bta-miR-2319b, bta-miR-2320-3p, bta-miR-2320-5p, bta-miR-2321, bta-miR-2322-3p, bta-miR-2322-5p, bta-miR-2323, bta-miR-2324, bta-miR-2325a, bta-miR-2325b, bta-miR-2325c, bta-miR-2326, bta-miR-2327, bta-miR-2328-3p, bta-miR-2328-5p, bta-miR-2329-3p, bta-miR-2329-5p, bta-miR-2330-3p, bta-miR-2330-5p, bta-miR-2331-3p, bta-miR-2331-5p, bta-miR-2332, bta-miR-2333, bta-miR-2334, bta-miR-2335, bta-miR-2336, bta-miR-2337, bta-miR-2338, bta-miR-2339, bta-miR-2340, bta-miR-2341, bta-miR-2342, bta-miR-2343, bta-miR-2344, bta-miR-2345, bta-miR-2346, bta-miR-2347, bta-miR-2348, bta-miR-2349, bta-miR-2350, bta-miR-2351, bta-miR-2352, bta-miR-2353, bta-miR-2354, bta-miR-2355-3p, bta-miR-2355-5p, bta-miR-2356, bta-miR-2357, bta-miR-2358, bta-miR-2359, bta-miR-2360, bta-miR-2361, bta-miR-2362, bta-miR-2363, bta-miR-2364, bta-miR-2365, bta-miR-2366, bta-miR-2367-3p, bta-miR-2367-5p, bta-miR-2368-3p, bta-miR-2368-5p, bta-miR-2369, bta-miR-2370-3p, bta-miR-2370-5p, bta-miR-2371, bta-miR-2372, bta-miR-2373-3p, bta-miR-2373-5p, bta-miR-2374, bta-miR-2375, bta-miR-2376, bta-miR-2377, bta-miR-2378, bta-miR-2379, bta-miR-2380, bta-miR-2381, bta-miR-2382-3p, bta-miR-2382-5p, bta-miR-2383, bta-miR-2384, bta-miR-2385-3p, bta-miR-2385-5p, bta-miR-2386, bta-miR-2387, bta-miR-2388-3p, bta-miR-2388-5p, bta-miR-2389, bta-miR-2390, bta-miR-2392, bta-miR-2393, bta-miR-2394, bta-miR-2395, bta-miR-2396, bta-miR-2397-3p, bta-miR-2397-5p, bta-miR-2398, bta-miR-2399-3p, bta-miR-2399-5p, bta-miR-23a, bta-miR-23b-3p, bta-miR-23b-5p, bta-miR-24, bta-miR-24-

3p, bta-miR-2400, bta-miR-2401, bta-miR-2402, bta-miR-2403, bta-miR-2404, bta-miR-2405, bta-miR-2406, bta-miR-2407, bta-miR-2408, bta-miR-2409, bta-miR-2410, bta-miR-2411-3p, bta-miR-2411-5p, bta-miR-2412, bta-miR-2413, bta-miR-2414, bta-miR-2415-3p, bta-miR-2415-5p, bta-miR-2416, bta-miR-2417, bta-miR-2418, bta-miR-2419-3p, bta-miR-2419-5p, bta-miR-2420, bta-miR-2421, bta-miR-2422, bta-miR-2423, bta-miR-2424, bta-miR-2425-3p, bta-miR-2425-5p, bta-miR-2426, bta-miR-2427, bta-miR-2428, bta-miR-2429, bta-miR-2430, bta-miR-2431-3p, bta-miR-2431-5p, bta-miR-2432, bta-miR-2433, bta-miR-2434, bta-miR-2435, bta-miR-2436-3p, bta-miR-2436-5p, bta-miR-2437, bta-miR-2438, bta-miR-2439-3p, bta-miR-2439-5p, bta-miR-2440, bta-miR-2441, bta-miR-2442, bta-miR-2443, bta-miR-2444, bta-miR-2446, bta-miR-2447, bta-miR-2448-3p, bta-miR-2448-5p, bta-miR-2449, bta-miR-2450a, bta-miR-2450b, bta-miR-2450c, bta-miR-2450d, bta-miR-2451, bta-miR-2452, bta-miR-2453, bta-miR-2454-3p, bta-miR-2454-5p, bta-miR-2455, bta-miR-2456, bta-miR-2457, bta-miR-2458, bta-miR-2459, bta-miR-2460, bta-miR-2461-3p, bta-miR-2461-5p, bta-miR-2462, bta-miR-2463, bta-miR-2464-3p, bta-miR-2464-5p, bta-miR-2465, bta-miR-2466-3p, bta-miR-2466-5p, bta-miR-2467-3p, bta-miR-2467-5p, bta-miR-2468, bta-miR-2469, bta-miR-2470, bta-miR-2471-3p, bta-miR-2471-5p, bta-miR-2472, bta-miR-2473, bta-miR-2474, bta-miR-2475, bta-miR-2477, bta-miR-2478, bta-miR-2479, bta-miR-2480, bta-miR-2481, bta-miR-2482, bta-miR-2483-3p, bta-miR-2483-5p, bta-miR-2484, bta-miR-2485, bta-miR-2486-3p, bta-miR-2486-5p, bta-miR-2488, bta-miR-2489, bta-miR-25, bta-miR-26a, bta-miR-26b, bta-miR-26c, bta-miR-27a-3p, bta-miR-27a-5p, bta-miR-27b, bta-miR-28, bta-miR-2881, bta-miR-2882, bta-miR-2883, bta-miR-2885, bta-miR-2886, bta-miR-2887, bta-miR-2888, bta-miR-2889, bta-miR-2890, bta-miR-2891, bta-miR-2892, bta-miR-2893, bta-miR-2894, bta-miR-2895, bta-miR-2896, bta-miR-2897, bta-miR-2898, bta-miR-2899, bta-miR-2900, bta-miR-2901, bta-miR-2902, bta-miR-2903, bta-miR-2904, bta-miR-2917, bta-miR-296-3p, bta-miR-296-5p, bta-miR-299, bta-miR-299-2, bta-miR-29a, bta-miR-29b, bta-miR-29c, bta-miR-29d-3p, bta-miR-29d-5p, bta-miR-29e, bta-miR-301a, bta-miR-301b, bta-miR-302a, bta-miR-302b, bta-miR-302c, bta-miR-302d, bta-miR-3064, bta-miR-3065, bta-miR-30a-5p, bta-miR-30b-3p, bta-miR-30b-5p, bta-miR-30c, bta-miR-30d, bta-miR-30e-5p, bta-miR-30f, bta-miR-31, bta-miR-3120, bta-miR-3141, bta-miR-3154, bta-miR-32, bta-miR-320a, bta-miR-320b, bta-miR-323, bta-miR-323b-3p, bta-miR-324, bta-miR-326, bta-miR-328, bta-miR-329a, bta-miR-329b, bta-miR-330, bta-miR-331-3p, bta-miR-331-5p, bta-miR-335, bta-miR-338, bta-miR-339a, bta-miR-339b, bta-miR-33a, bta-miR-33b, bta-miR-340, bta-miR-342, bta-miR-3431, bta-miR-3432a, bta-miR-3432b, bta-miR-345-3p, bta-miR-345-5p, bta-miR-346, bta-miR-34a, bta-miR-34b, bta-miR-34c, bta-

miR-3533, bta-miR-3578, bta-miR-3596, bta-miR-3600, bta-miR-3601, bta-miR-3602, bta-miR-3604, bta-miR-361, bta-miR-3613a, bta-miR-3613b, bta-miR-362-3p, bta-miR-362-5p, bta-miR-363, bta-miR-365-3p, bta-miR-365-5p, bta-miR-3660, bta-miR-367, bta-miR-369-3p, bta-miR-369-5p, bta-miR-370, bta-miR-371, bta-miR-374a, bta-miR-374b, bta-miR-374c, bta-miR-375, bta-miR-376a, bta-miR-376b, bta-miR-376c, bta-miR-376d, bta-miR-376e, bta-miR-377, bta-miR-378, bta-miR-378b, bta-miR-378c, bta-miR-378d, bta-miR-379, bta-miR-380-3p, bta-miR-380-5p, bta-miR-381, bta-miR-382, bta-miR-383, bta-miR-3956, bta-miR-3957, bta-miR-409a, bta-miR-409b, bta-miR-410, bta-miR-411a, bta-miR-411b, bta-miR-411c-3p, bta-miR-411c-5p, bta-miR-412, bta-miR-421, bta-miR-423-3p, bta-miR-423-5p, bta-miR-424-3p, bta-miR-424-5p, bta-miR-425-3p, bta-miR-425-5p, bta-miR-4286, bta-miR-429, bta-miR-431, bta-miR-432, bta-miR-433, bta-miR-4444, bta-miR-4449, bta-miR-448, bta-miR-449a, bta-miR-449b, bta-miR-449c, bta-miR-449d, bta-miR-450a, bta-miR-450b, bta-miR-451, bta-miR-452, bta-miR-4523, bta-miR-453, bta-miR-454, bta-miR-455-3p, bta-miR-455-5p, bta-miR-4657, bta-miR-4680, bta-miR-483, bta-miR-484, bta-miR-485, bta-miR-486, bta-miR-487a, bta-miR-487b, bta-miR-488, bta-miR-489, bta-miR-490, bta-miR-491, bta-miR-493, bta-miR-494, bta-miR-495, bta-miR-496, bta-miR-497, bta-miR-499, bta-miR-500, bta-miR-502a, bta-miR-502b, bta-miR-503-3p, bta-miR-503-5p, bta-miR-504, bta-miR-505, bta-miR-507-3p, bta-miR-507b, bta-miR-532, bta-miR-539, bta-miR-541, bta-miR-542-5p, bta-miR-543, bta-miR-544a, bta-miR-544b, bta-miR-545-3p, bta-miR-545-5p, bta-miR-551a, bta-miR-551b, bta-miR-562, bta-miR-568, bta-miR-574, bta-miR-582, bta-miR-584, bta-miR-592, bta-miR-599, bta-miR-6119-3p, bta-miR-6119-5p, bta-miR-6120-3p, bta-miR-6120-5p, bta-miR-6121-3p, bta-miR-6121-5p, bta-miR-6122-3p, bta-miR-6122-5p, bta-miR-6123, bta-miR-615, bta-miR-628, bta-miR-631, bta-miR-6501, bta-miR-6516, bta-miR-6517, bta-miR-6518, bta-miR-6519, bta-miR-652, bta-miR-6520, bta-miR-6521, bta-miR-6522, bta-miR-6523a, bta-miR-6523b, bta-miR-6524, bta-miR-6525, bta-miR-6526, bta-miR-6527, bta-miR-6528, bta-miR-6529a, bta-miR-6529b, bta-miR-653, bta-miR-6530, bta-miR-6531, bta-miR-6532, bta-miR-6533, bta-miR-6534, bta-miR-6535, bta-miR-6536, bta-miR-654, bta-miR-655, bta-miR-656, bta-miR-658, bta-miR-660, bta-miR-664a, bta-miR-664b, bta-miR-665, bta-miR-668-3p, bta-miR-669, bta-miR-670, bta-miR-671, bta-miR-6715, bta-miR-677, bta-miR-6775, bta-miR-7, bta-miR-708, bta-miR-7180, bta-miR-744, bta-miR-758, bta-miR-759, bta-miR-760-3p, bta-miR-760-5p, bta-miR-761, bta-miR-763, bta-miR-764, bta-miR-767, bta-miR-769, bta-miR-7691, bta-miR-7857-3p, bta-miR-7857-5p, bta-miR-7858, bta-miR-7859, bta-miR-7860, bta-miR-7861, bta-miR-7862, bta-miR-7863, bta-miR-7864, bta-miR-7865, bta-miR-8548, bta-miR-8549, bta-miR-8550, bta-miR-873,

bta-miR-874, bta-miR-875, bta-miR-876, bta-miR-877, bta-miR-885, bta-miR-9-3p, bta-miR-9-5p, bta-miR-92a, bta-miR-92b, bta-miR-93, bta-miR-935, bta-miR-940, bta-miR-95, bta-miR-96, bta-miR-98, bta-miR-9851, bta-miR-99a-3p, bta-miR-99a-5p, bta-miR-99b, cas-miR11592, cas-miR156a, cas-miR156b-3p, cas-miR156b-5p, cas-miR156c-3p, cas-miR156c-5p, cas-miR156d-3p, cas-miR156d-5p, cas-miR156e-3p, cas-miR156e-5p, cas-miR156f-3p, cas-miR156f-5p, cas-miR156g, cas-miR156h, cas-miR156i, cas-miR156j, cas-miR156k-3p, cas-miR156k-5p, cas-miR157a, cas-miR157b, cas-miR157c, cas-miR157d, cas-miR158a, cas-miR158b, cas-miR159a, cas-miR159b-3p, cas-miR159b-5p, cas-miR159c-3p, cas-miR159c-5, cas-miR160a, cas-miR160b-3p, cas-miR160b-5p, cas-miR161, cas-miR162a, cas-miR162b, cas-miR164, cas-miR165a, cas-miR165b, cas-miR166a, cas-miR166b, cas-miR166c-3p, cas-miR166c-5p, cas-miR166d, cas-miR166e, cas-miR166f-3p, cas-miR166f-5p, cas-miR167a, cas-miR167b, cas-miR167c, cas-miR168, cas-miR169a, cas-miR169b, cas-miR169c, cas-miR169d, cas-miR169e-3p, cas-miR169e-5p, cas-miR169f, cas-miR169g-3p, cas-miR169g-5p, cas-miR170, cas-miR171a-3p, cas-miR171a-5p, cas-miR171b, cas-miR171c-3p, cas-miR171c-5p, cas-miR172a-3p, cas-miR172a-5p, cas-miR172b, cas-miR172c, cas-miR172d, cas-miR173, cas-miR2111a, cas-miR2111b, cas-miR319a, cas-miR319b, cas-miR319c, cas-miR3435, cas-miR390a-3p, cas-miR390a-5p, cas-miR390b, cas-miR393-3p, cas-miR393-5p, cas-miR394, cas-miR395a, cas-miR395b, cas-miR395c-3p, cas-miR395c-5p, cas-miR395d-3p, cas-miR395d-5p, cas-miR396a, cas-miR396b, cas-miR397, cas-miR398a-3p, cas-miR398a-5p, cas-miR398b, cas-miR399a, cas-miR399b, cas-miR400, cas-miR403, cas-miR408, cas-miR472, cas-miR5139, cas-miR8171, cas-miR825, cas-miR827a, cas-miR827b, cas-miR828, cas-miR845, cas-miR857, cas-miR858, cas-miR860, cas-miR9560, cbn-let-7, cbn-lin-4, cbn-miR-1, cbn-miR-124, cbn-miR-1822, cbn-miR-1824a, cbn-miR-1824b, cbn-miR-2, cbn-miR-228, cbn-miR-230, cbn-miR-231, cbn-miR-232, cbn-miR-233, cbn-miR-234, cbn-miR-235, cbn-miR-236, cbn-miR-237, cbn-miR-238, cbn-miR-239a, cbn-miR-239b, cbn-miR-239c, cbn-miR-239d, cbn-miR-241, cbn-miR-242, cbn-miR-244, cbn-miR-245, cbn-miR-246, cbn-miR-248, cbn-miR-249, cbn-miR-250, cbn-miR-251a, cbn-miR-251b, cbn-miR-254, cbn-miR-255, cbn-miR-259, cbn-miR-34, cbn-miR-355, cbn-miR-356, cbn-miR-357, cbn-miR-359, cbn-miR-35a, cbn-miR-35b, cbn-miR-35c, cbn-miR-35d, cbn-miR-35e, cbn-miR-35f, cbn-miR-35g, cbn-miR-35h, cbn-miR-35i, cbn-miR-35j, cbn-miR-35k, cbn-miR-35l, cbn-miR-35m, cbn-miR-35n, cbn-miR-36, cbn-miR-360, cbn-miR-38, cbn-miR-39, cbn-miR-43, cbn-miR-44, cbn-miR-46, cbn-miR-47, cbn-miR-48, cbn-miR-49, cbn-miR-50, cbn-miR-51, cbn-miR-52, cbn-miR-54, cbn-miR-55, cbn-miR-56, cbn-miR-57, cbn-miR-58a, cbn-miR-58b, cbn-miR-59, cbn-miR-60, cbn-miR-61,

cbn-miR-62, cbn-miR-63, cbn-miR-64a, cbn-miR-64b, cbn-miR-64c, cbn-miR-64d, cbn-miR-64e, cbn-miR-64f, cbn-miR-64g, cbn-miR-64h, cbn-miR-64i, cbn-miR-64j, cbn-miR-64k, cbn-miR-64l, cbn-miR-64m, cbn-miR-67, cbn-miR-70, cbn-miR-72a, cbn-miR-72b, cbn-miR-73a, cbn-miR-73b, cbn-miR-74a, cbn-miR-74b, cbn-miR-74c, cbn-miR-74d, cbn-miR-75, cbn-miR-7579, cbn-miR-7597, cbn-miR-76, cbn-miR-7614, cbn-miR-7615, cbn-miR-7616, cbn-miR-7617, cbn-miR-7618, cbn-miR-7619, cbn-miR-7620a, cbn-miR-7620b, cbn-miR-7621a, cbn-miR-7621b, cbn-miR-7622, cbn-miR-7623, cbn-miR-7624, cbn-miR-7625, cbn-miR-7626, cbn-miR-7627, cbn-miR-7628, cbn-miR-7629, cbn-miR-7630, cbn-miR-7631, cbn-miR-7632, cbn-miR-7633, cbn-miR-7634, cbn-miR-7635, cbn-miR-7636, cbn-miR-7637, cbn-miR-7638, cbn-miR-7639, cbn-miR-7640, cbn-miR-7690, cbn-miR-77, cbn-miR-784, cbn-miR-785, cbn-miR-787, cbn-miR-789a, cbn-miR-789b, cbn-miR-79, cbn-miR-790, cbn-miR-80, cbn-miR-81, cbn-miR-82, cbn-miR-83, cbn-miR-84, cbn-miR-85, cbn-miR-86, cbn-miR-87, cbn-miR-90, cbr-let-7, cbr-lin-4, cbr-lsy-6, cbr-miR-1, cbr-miR-124a, cbr-miR-124b, cbr-miR-124c, cbr-miR-1817, cbr-miR-1822, cbr-miR-2, cbr-miR-2222, cbr-miR-2223, cbr-miR-2224, cbr-miR-2225-3p, cbr-miR-2225-5p, cbr-miR-2226-3p, cbr-miR-2226-5p, cbr-miR-2227, cbr-miR-2231, cbr-miR-228, cbr-miR-230, cbr-miR-231, cbr-miR-232, cbr-miR-233, cbr-miR-234, cbr-miR-235a, cbr-miR-235b-3p, cbr-miR-235b-5p, cbr-miR-236, cbr-miR-237-3p, cbr-miR-237-5p, cbr-miR-238, cbr-miR-239a, cbr-miR-239b, cbr-miR-240, cbr-miR-241, cbr-miR-242, cbr-miR-244, cbr-miR-245, cbr-miR-246, cbr-miR-247, cbr-miR-248, cbr-miR-249, cbr-miR-250, cbr-miR-251, cbr-miR-252, cbr-miR-253, cbr-miR-254, cbr-miR-255, cbr-miR-259, cbr-miR-268, cbr-miR-34, cbr-miR-354, cbr-miR-355, cbr-miR-356, cbr-miR-357, cbr-miR-358, cbr-miR-359, cbr-miR-35a, cbr-miR-35b, cbr-miR-35c, cbr-miR-35d-3p, cbr-miR-35d-5p, cbr-miR-35e, cbr-miR-35f, cbr-miR-35g, cbr-miR-36, cbr-miR-360, cbr-miR-38, cbr-miR-39, cbr-miR-392, cbr-miR-40, cbr-miR-41a, cbr-miR-41b, cbr-miR-42, cbr-miR-43, cbr-miR-44, cbr-miR-45, cbr-miR-46, cbr-miR-47, cbr-miR-48, cbr-miR-4813, cbr-miR-49, cbr-miR-50, cbr-miR-51, cbr-miR-52, cbr-miR-54a-3p, cbr-miR-54a-5p, cbr-miR-54b, cbr-miR-54c, cbr-miR-54d, cbr-miR-55, cbr-miR-56-3p, cbr-miR-56-5p, cbr-miR-57, cbr-miR-58a, cbr-miR-58b, cbr-miR-60, cbr-miR-61, cbr-miR-62, cbr-miR-64a, cbr-miR-64b, cbr-miR-64c, cbr-miR-65-3p, cbr-miR-65-5p, cbr-miR-67, cbr-miR-70, cbr-miR-71, cbr-miR-72, cbr-miR-73a, cbr-miR-73b, cbr-miR-74a, cbr-miR-74b-3p, cbr-miR-74b-5p, cbr-miR-75, cbr-miR-7579, cbr-miR-7580, cbr-miR-7581, cbr-miR-7582, cbr-miR-7583a-3p, cbr-miR-7583a-5p, cbr-miR-7583b, cbr-miR-7583c-3p, cbr-miR-7583c-5p, cbr-miR-7583d, cbr-miR-7584, cbr-miR-7585, cbr-miR-7586, cbr-miR-7587, cbr-miR-7588, cbr-miR-7589, cbr-miR-7590, cbr-miR-7591, cbr-miR-7592, cbr-miR-

7593, cbr-miR-7594a, cbr-miR-7594b, cbr-miR-7595, cbr-miR-7596, cbr-miR-76, cbr-miR-77, cbr-miR-784, cbr-miR-785a, cbr-miR-785b, cbr-miR-786, cbr-miR-787, cbr-miR-788, cbr-miR-789, cbr-miR-79, cbr-miR-790, cbr-miR-791, cbr-miR-792, cbr-miR-80, cbr-miR-81, cbr-miR-82, cbr-miR-83, cbr-miR-84, cbr-miR-85, cbr-miR-86, cbr-miR-87, cbr-miR-90a, cbr-miR-90b-3p, cbr-miR-90b-5p, cca-miR156a, cca-miR156b, cca-miR156c, cca-miR160a, cca-miR160b, cca-miR164, cca-miR167, cca-miR168a, cca-miR169a, cca-miR169b, cca-miR171, cca-miR172, cca-miR319, cca-miR390, cca-miR393, cca-miR394, cca-miR395a, cca-miR395b, cca-miR395c, cca-miR396a-3p, cca-miR396a-5p, cca-miR396b, cca-miR396c, cca-miR398, cca-miR399, cca-miR408, cca-miR6103-3p, cca-miR6103-5p, cca-miR6104, cca-miR6105a, cca-miR6105b, cca-miR6106-3p, cca-miR6106-5p, cca-miR6107, cca-miR6108a, cca-miR6108b, cca-miR6108c, cca-miR6108d, cca-miR6108e-3p, cca-miR6108e-5p, cca-miR6108f, cca-miR6108g, cca-miR6109, cca-miR6110-3p, cca-miR6110-5p, cca-miR6111-3p, cca-miR6111-5p, cca-miR6112, cca-miR6113, cca-miR6114-3p, cca-miR6114-5p, cca-miR6115, cca-miR6116-3p, cca-miR6116-5p, cca-miR6117, cca-miR6118-3p, cca-miR6118-5p, ccl-miR167a, ccl-miR167b, ccl-miR168, ccl-miR171, ccl-miR396, ccr-let-7a, ccr-let-7b, ccr-let-7g, ccr-let-7i, ccr-let-7j, ccr-miR-1, ccr-miR-100, ccr-miR-101a, ccr-miR-101b, ccr-miR-103, ccr-miR-107, ccr-miR-10b, ccr-miR-10c, ccr-miR-10d, ccr-miR-122, ccr-miR-124a, ccr-miR-124b, ccr-miR-125b, ccr-miR-125c, ccr-miR-126-3p, ccr-miR-126-5p, ccr-miR-128, ccr-miR-129, ccr-miR-130a, ccr-miR-130b, ccr-miR-130c, ccr-miR-132a, ccr-miR-132b, ccr-miR-133a-3p, ccr-miR-133a-5p, ccr-miR-135c, ccr-miR-137, ccr-miR-138, ccr-miR-139, ccr-miR-140-3p, ccr-miR-140-5p, ccr-miR-142-3p, ccr-miR-142-5p, ccr-miR-143, ccr-miR-144, ccr-miR-146a, ccr-miR-148, ccr-miR-153b, ccr-miR-153c, ccr-miR-155, ccr-miR-15a, ccr-miR-15b, ccr-miR-16a, ccr-miR-16b, ccr-miR-16c, ccr-miR-17-3p, ccr-miR-17-5p, ccr-miR-181a, ccr-miR-181b, ccr-miR-181c, ccr-miR-182-3p, ccr-miR-182-5p, ccr-miR-183, ccr-miR-184, ccr-miR-187, ccr-miR-18a, ccr-miR-18b, ccr-miR-18c, ccr-miR-190, ccr-miR-192, ccr-miR-193a, ccr-miR-194, ccr-miR-196a, ccr-miR-196b, ccr-miR-199-3p, ccr-miR-199-5p, ccr-miR-19d, ccr-miR-200a, ccr-miR-200b, ccr-miR-203a, ccr-miR-203b-3p, ccr-miR-203b-5p, ccr-miR-205, ccr-miR-206, ccr-miR-20a-3p, ccr-miR-20a-5p, ccr-miR-21, ccr-miR-210, ccr-miR-214, ccr-miR-217, ccr-miR-218a, ccr-miR-218b, ccr-miR-2192, ccr-miR-221, ccr-miR-222, ccr-miR-22a, ccr-miR-22b, ccr-miR-23a, ccr-miR-23b, ccr-miR-24, ccr-miR-25, ccr-miR-26a, ccr-miR-27a, ccr-miR-27c-3p, ccr-miR-27c-5p, ccr-miR-27d, ccr-miR-29a, ccr-miR-29b, ccr-miR-301a, ccr-miR-30b, ccr-miR-30d, ccr-miR-338, ccr-miR-34, ccr-miR-363, ccr-miR-365, ccr-miR-375, ccr-miR-429, ccr-miR-430, ccr-miR-454a, ccr-miR-454b, ccr-miR-455, ccr-miR-457a, ccr-miR-457b, ccr-

miR-459-3p, ccr-miR-459-5p, ccr-miR-460-3p, ccr-miR-460-5p, ccr-miR-489, ccr-miR-499, ccr-miR-551, ccr-miR-7132, ccr-miR-7133, ccr-miR-722, ccr-miR-724, ccr-miR-725, ccr-miR-726, ccr-miR-727-3p, ccr-miR-727-5p, ccr-miR-729, ccr-miR-730, ccr-miR-734, ccr-miR-738, ccr-miR-7a, ccr-miR-7b, ccr-miR-9-3p, ccr-miR-9-5p, ccr-miR-92a, ccr-miR-92b, ccr-miR-93, ccr-miR-96, ccr-miR-99, cel-let-7-3p, cel-let-7-5p, cel-lin-4-3p, cel-lin-4-5p, cel-lsy-6-3p, cel-lsy-6-5p, cel-miR-1-3p, cel-miR-1-5p, cel-miR-1018, cel-miR-1019-3p, cel-miR-1019-5p, cel-miR-1020-3p, cel-miR-1020-5p, cel-miR-1021, cel-miR-1022-3p, cel-miR-1022-5p, cel-miR-12134, cel-miR-124-3p, cel-miR-124-5p, cel-miR-1817, cel-miR-1818, cel-miR-1819-3p, cel-miR-1819-5p, cel-miR-1820-3p, cel-miR-1820-5p, cel-miR-1821-3p, cel-miR-1821-5p, cel-miR-1822-3p, cel-miR-1822-5p, cel-miR-1823-3p, cel-miR-1823-5p, cel-miR-1824-3p, cel-miR-1824-5p, cel-miR-1828, cel-miR-1829a-3p, cel-miR-1829a-5p, cel-miR-1829b-3p, cel-miR-1829b-5p, cel-miR-1829c-3p, cel-miR-1829c-5p, cel-miR-1830-3p, cel-miR-1830-5p, cel-miR-1832a-3p, cel-miR-1832a-5p, cel-miR-1832b-3p, cel-miR-1832b-5p, cel-miR-1833, cel-miR-2-3p, cel-miR-2-5p, cel-miR-2207-3p, cel-miR-2207-5p, cel-miR-2208a-3p, cel-miR-2208a-5p, cel-miR-2208b-3p, cel-miR-2208b-5p, cel-miR-2209a-3p, cel-miR-2209a-5p, cel-miR-2209b-3p, cel-miR-2209b-5p, cel-miR-2209c-3p, cel-miR-2209c-5p, cel-miR-2210-3p, cel-miR-2210-5p, cel-miR-2211-3p, cel-miR-2211-5p, cel-miR-2212-3p, cel-miR-2212-5p, cel-miR-2213-3p, cel-miR-2213-5p, cel-miR-2215-3p, cel-miR-2215-5p, cel-miR-2216-3p, cel-miR-2216-5p, cel-miR-2217a-3p, cel-miR-2217a-5p, cel-miR-2217b-1-5p, cel-miR-2217b-3p, cel-miR-2217b-5p, cel-miR-2218a-3p, cel-miR-2218a-5p, cel-miR-2218b-3p, cel-miR-2218b-5p, cel-miR-2219-3p, cel-miR-2219-5p, cel-miR-2220-3p, cel-miR-2220-5p, cel-miR-2221, cel-miR-228-3p, cel-miR-228-5p, cel-miR-229-3p, cel-miR-229-5p, cel-miR-230-3p, cel-miR-230-5p, cel-miR-231-3p, cel-miR-231-5p, cel-miR-232-3p, cel-miR-232-5p, cel-miR-233-3p, cel-miR-233-5p, cel-miR-234-3p, cel-miR-234-5p, cel-miR-235-3p, cel-miR-235-5p, cel-miR-236-3p, cel-miR-236-5p, cel-miR-237-3p, cel-miR-237-5p, cel-miR-238-3p, cel-miR-238-5p, cel-miR-239a-3p, cel-miR-239a-5p, cel-miR-239b-3p, cel-miR-239b-5p, cel-miR-240-3p, cel-miR-240-5p, cel-miR-241-3p, cel-miR-241-5p, cel-miR-242, cel-miR-243-3p, cel-miR-243-5p, cel-miR-244-3p, cel-miR-244-5p, cel-miR-245-3p, cel-miR-245-5p, cel-miR-246-3p, cel-miR-246-5p, cel-miR-247-3p, cel-miR-247-5p, cel-miR-248, cel-miR-249-3p, cel-miR-249-5p, cel-miR-250-3p, cel-miR-250-5p, cel-miR-251, cel-miR-252-3p, cel-miR-252-5p, cel-miR-253-3p, cel-miR-253-5p, cel-miR-254-3p, cel-miR-254-5p, cel-miR-255-3p, cel-miR-255-5p, cel-miR-256, cel-miR-259-3p, cel-miR-259-5p, cel-miR-261, cel-miR-264, cel-miR-265, cel-miR-266, cel-miR-267, cel-miR-268, cel-miR-269, cel-miR-270, cel-miR-271, cel-miR-272, cel-miR-273, cel-

miR-2953-3p, cel-miR-2953-5p, cel-miR-34-3p, cel-miR-34-5p, cel-miR-35-3p, cel-miR-35-5p, cel-miR-354-3p, cel-miR-354-5p, cel-miR-355-3p, cel-miR-355-5p, cel-miR-356a, cel-miR-356b-3p, cel-miR-356b-5p, cel-miR-357-3p, cel-miR-357-5p, cel-miR-358-3p, cel-miR-358-5p, cel-miR-359, cel-miR-36-3p, cel-miR-36-5p, cel-miR-360-3p, cel-miR-360-5p, cel-miR-37-3p, cel-miR-37-5p, cel-miR-38-3p, cel-miR-38-5p, cel-miR-39-3p, cel-miR-39-5p, cel-miR-392-3p, cel-miR-392-5p, cel-miR-40-3p, cel-miR-40-5p, cel-miR-41-3p, cel-miR-41-5p, cel-miR-42-3p, cel-miR-42-5p, cel-miR-43-3p, cel-miR-43-5p, cel-miR-44-3p, cel-miR-44-5p, cel-miR-45-3p, cel-miR-45-5p, cel-miR-46-3p, cel-miR-46-5p, cel-miR-47-3p, cel-miR-47-5p, cel-miR-48-3p, cel-miR-48-5p, cel-miR-4805-3p, cel-miR-4805-5p, cel-miR-4806-3p, cel-miR-4806-5p, cel-miR-4807, cel-miR-4808-3p, cel-miR-4808-5p, cel-miR-4809-3p, cel-miR-4809-5p, cel-miR-4810a, cel-miR-4810b-3p, cel-miR-4810b-5p, cel-miR-4811-3p, cel-miR-4811-5p, cel-miR-4812-3p, cel-miR-4812-5p, cel-miR-4813-3p, cel-miR-4813-5p, cel-miR-4814-3p, cel-miR-4814-5p, cel-miR-4815, cel-miR-4816-3p, cel-miR-4816-5p, cel-miR-49-3p, cel-miR-49-5p, cel-miR-4920, cel-miR-4921, cel-miR-4922, cel-miR-4923a, cel-miR-4923b, cel-miR-4924, cel-miR-4925, cel-miR-4926, cel-miR-4927, cel-miR-4929, cel-miR-4930, cel-miR-4931, cel-miR-4932, cel-miR-4933, cel-miR-4934, cel-miR-4935, cel-miR-4936, cel-miR-4937, cel-miR-4938, cel-miR-50-3p, cel-miR-50-5p, cel-miR-51-3p, cel-miR-51-5p, cel-miR-52-3p, cel-miR-52-5p, cel-miR-53-3p, cel-miR-53-5p, cel-miR-54-3p, cel-miR-54-5p, cel-miR-55-3p, cel-miR-55-5p, cel-miR-5545-3p, cel-miR-5545-5p, cel-miR-5546-3p, cel-miR-5546-5p, cel-miR-5547-3p, cel-miR-5547-5p, cel-miR-5548-3p, cel-miR-5548-5p, cel-miR-5549-3p, cel-miR-5549-5p, cel-miR-5550-3p, cel-miR-5550-5p, cel-miR-5551-3p, cel-miR-5551-5p, cel-miR-5552-3p, cel-miR-5552-5p, cel-miR-5553-3p, cel-miR-5553-5p, cel-miR-5592-3p, cel-miR-5592-5p, cel-miR-5593-3p, cel-miR-5593-5p, cel-miR-5594-3p, cel-miR-5594-5p, cel-miR-5595-3p, cel-miR-5595-5p, cel-miR-55b, cel-miR-56-3p, cel-miR-56-5p, cel-miR-57-3p, cel-miR-57-5p, cel-miR-58a-3p, cel-miR-58a-5p, cel-miR-58b-3p, cel-miR-58b-5p, cel-miR-58c, cel-miR-59-3p, cel-miR-59-5p, cel-miR-60-3p, cel-miR-60-5p, cel-miR-61-3p, cel-miR-61-5p, cel-miR-62, cel-miR-63-3p, cel-miR-63-5p, cel-miR-64-3p, cel-miR-64-5p, cel-miR-65-3p, cel-miR-65-5p, cel-miR-66-3p, cel-miR-66-5p, cel-miR-67-3p, cel-miR-67-5p, cel-miR-70-3p, cel-miR-70-5p, cel-miR-71-3p, cel-miR-71-5p, cel-miR-72-3p, cel-miR-72-5p, cel-miR-73-3p, cel-miR-73-5p, cel-miR-74-3p, cel-miR-74-5p, cel-miR-75-3p, cel-miR-75-5p, cel-miR-76-3p, cel-miR-76-5p, cel-miR-77-3p, cel-miR-77-5p, cel-miR-78, cel-miR-784-3p, cel-miR-784-5p, cel-miR-785-3p, cel-miR-785-5p, cel-miR-786-3p, cel-miR-786-5p, cel-miR-787-3p, cel-miR-787-5p, cel-miR-788-3p, cel-miR-788-5p, cel-miR-789-2-5p, cel-miR-789-3p, cel-miR-789-5p, cel-miR-

79-3p, cel-miR-79-5p, cel-miR-790-3p, cel-miR-790-5p, cel-miR-791-3p, cel-miR-791-5p, cel-miR-792-3p, cel-miR-792-5p, cel-miR-793, cel-miR-794-3p, cel-miR-794-5p, cel-miR-795-3p, cel-miR-795-5p, cel-miR-796, cel-miR-797-3p, cel-miR-797-5p, cel-miR-798, cel-miR-799, cel-miR-80-3p, cel-miR-80-5p, cel-miR-800-3p, cel-miR-800-5p, cel-miR-81-3p, cel-miR-81-5p, cel-miR-8186-3p, cel-miR-8186-5p, cel-miR-8187-3p, cel-miR-8187-5p, cel-miR-8188-3p, cel-miR-8188-5p, cel-miR-8189-3p, cel-miR-8189-5p, cel-miR-8190-3p, cel-miR-8190-5p, cel-miR-8191-3p, cel-miR-8191-5p, cel-miR-8192-3p, cel-miR-8192-5p, cel-miR-8193-3p, cel-miR-8193-5p, cel-miR-8194-3p, cel-miR-8194-5p, cel-miR-8195-3p, cel-miR-8195-5p, cel-miR-8196a-3p, cel-miR-8196a-5p, cel-miR-8196b-3p, cel-miR-8196b-5p, cel-miR-8197-3p, cel-miR-8197-5p, cel-miR-8198-3p, cel-miR-8198-5p, cel-miR-8199-3p, cel-miR-8199-5p, cel-miR-82-3p, cel-miR-82-5p, cel-miR-8200-3p, cel-miR-8200-5p, cel-miR-8201-3p, cel-miR-8201-5p, cel-miR-8202-3p, cel-miR-8202-5p, cel-miR-8203-3p, cel-miR-8203-5p, cel-miR-8204-3p, cel-miR-8204-5p, cel-miR-8205-3p, cel-miR-8205-5p, cel-miR-8206-3p, cel-miR-8206-5p, cel-miR-8207-3p, cel-miR-8207-5p, cel-miR-8208-3p, cel-miR-8208-5p, cel-miR-8209-3p, cel-miR-8209-5p, cel-miR-8210-3p, cel-miR-8210-5p, cel-miR-8211-3p, cel-miR-8211-5p, cel-miR-8212-3p, cel-miR-8212-5p, cel-miR-83-3p, cel-miR-83-5p, cel-miR-84-3p, cel-miR-84-5p, cel-miR-85-3p, cel-miR-85-5p, cel-miR-86-3p, cel-miR-86-5p, cel-miR-87-3p, cel-miR-87-5p, cel-miR-90-3p, cel-miR-90-5p, cfa-let-7a, cfa-let-7b, cfa-let-7c, cfa-let-7d, cfa-let-7e, cfa-let-7f, cfa-let-7g, cfa-let-7j, cfa-miR-1, cfa-miR-101, cfa-miR-103, cfa-miR-105a, cfa-miR-105b, cfa-miR-106a, cfa-miR-106b, cfa-miR-107, cfa-miR-10a, cfa-miR-10b, cfa-miR-1185, cfa-miR-1199-3p, cfa-miR-1199-5p, cfa-miR-122, cfa-miR-124, cfa-miR-1249, cfa-miR-125a, cfa-miR-125b, cfa-miR-126, cfa-miR-127, cfa-miR-1271, cfa-miR-128, cfa-miR-129, cfa-miR-1296, cfa-miR-1301, cfa-miR-1306, cfa-miR-1307, cfa-miR-130a, cfa-miR-130b, cfa-miR-132, cfa-miR-133a, cfa-miR-133b, cfa-miR-133c, cfa-miR-134, cfa-miR-1343, cfa-miR-135a-3p, cfa-miR-135a-5p, cfa-miR-135b, cfa-miR-136, cfa-miR-137, cfa-miR-138a, cfa-miR-138b, cfa-miR-139, cfa-miR-140, cfa-miR-141, cfa-miR-142, cfa-miR-143, cfa-miR-144, cfa-miR-145, cfa-miR-1468, cfa-miR-146a, cfa-miR-146b, cfa-miR-147, cfa-miR-148a, cfa-miR-148b, cfa-miR-149, cfa-miR-150, cfa-miR-151, cfa-miR-152, cfa-miR-153, cfa-miR-155, cfa-miR-15a, cfa-miR-15b, cfa-miR-16, cfa-miR-17, cfa-miR-181a, cfa-miR-181b, cfa-miR-181c, cfa-miR-181d, cfa-miR-182, cfa-miR-183, cfa-miR-1835, cfa-miR-1836, cfa-miR-1837, cfa-miR-1838, cfa-miR-1839, cfa-miR-184, cfa-miR-1840, cfa-miR-1841, cfa-miR-1842, cfa-miR-1843, cfa-miR-1844, cfa-miR-185, cfa-miR-186, cfa-miR-187, cfa-miR-188, cfa-miR-18a, cfa-miR-18b, cfa-miR-190a, cfa-miR-190b, cfa-miR-191, cfa-miR-192, cfa-miR-193a, cfa-miR-193b, cfa-miR-194,

cfa-miR-195, cfa-miR-196a, cfa-miR-196b, cfa-miR-197, cfa-miR-199, cfa-miR-19a, cfa-miR-19b, cfa-miR-200a, cfa-miR-200b, cfa-miR-200c, cfa-miR-202, cfa-miR-203, cfa-miR-204, cfa-miR-205, cfa-miR-206, cfa-miR-207, cfa-miR-208a, cfa-miR-208b, cfa-miR-20a, cfa-miR-20b, cfa-miR-21, cfa-miR-210, cfa-miR-211, cfa-miR-2114, cfa-miR-212, cfa-miR-214, cfa-miR-215, cfa-miR-216a, cfa-miR-216b, cfa-miR-217, cfa-miR-218, cfa-miR-219-3p, cfa-miR-219-5p, cfa-miR-22, cfa-miR-221, cfa-miR-222, cfa-miR-223, cfa-miR-224, cfa-miR-2387, cfa-miR-23a, cfa-miR-23b, cfa-miR-24, cfa-miR-2483, cfa-miR-25, cfa-miR-26a, cfa-miR-26b, cfa-miR-27a, cfa-miR-27b, cfa-miR-28, cfa-miR-299, cfa-miR-29a, cfa-miR-29b, cfa-miR-29c, cfa-miR-300, cfa-miR-301a, cfa-miR-301b, cfa-miR-302a, cfa-miR-302b, cfa-miR-302c, cfa-miR-302d, cfa-miR-30a, cfa-miR-30b, cfa-miR-30c, cfa-miR-30d, cfa-miR-30e, cfa-miR-31, cfa-miR-32, cfa-miR-320, cfa-miR-323, cfa-miR-324, cfa-miR-325, cfa-miR-326, cfa-miR-328, cfa-miR-329a, cfa-miR-329b, cfa-miR-330, cfa-miR-331, cfa-miR-335, cfa-miR-338, cfa-miR-339, cfa-miR-33a, cfa-miR-33b, cfa-miR-340, cfa-miR-342, cfa-miR-345, cfa-miR-346, cfa-miR-34a, cfa-miR-34b, cfa-miR-34c, cfa-miR-350, cfa-miR-361, cfa-miR-362, cfa-miR-363, cfa-miR-365, cfa-miR-367, cfa-miR-369, cfa-miR-370, cfa-miR-371, cfa-miR-374a, cfa-miR-374b, cfa-miR-375, cfa-miR-376a, cfa-miR-376b, cfa-miR-376c, cfa-miR-377, cfa-miR-378, cfa-miR-379, cfa-miR-380, cfa-miR-381, cfa-miR-382, cfa-miR-383, cfa-miR-384, cfa-miR-3958, cfa-miR-409, cfa-miR-410, cfa-miR-411, cfa-miR-421, cfa-miR-423a, cfa-miR-424, cfa-miR-425, cfa-miR-429, cfa-miR-432, cfa-miR-433, cfa-miR-448, cfa-miR-449a, cfa-miR-449b, cfa-miR-450a, cfa-miR-450b, cfa-miR-451, cfa-miR-452, cfa-miR-454, cfa-miR-455, cfa-miR-483, cfa-miR-485, cfa-miR-486, cfa-miR-486-3p, cfa-miR-487a, cfa-miR-487b, cfa-miR-488, cfa-miR-489, cfa-miR-490, cfa-miR-491, cfa-miR-493, cfa-miR-494, cfa-miR-495, cfa-miR-496, cfa-miR-497, cfa-miR-499, cfa-miR-500, cfa-miR-502, cfa-miR-503, cfa-miR-504, cfa-miR-505, cfa-miR-506, cfa-miR-507a, cfa-miR-507b, cfa-miR-508a, cfa-miR-508b, cfa-miR-514, cfa-miR-532, cfa-miR-539, cfa-miR-542, cfa-miR-543, cfa-miR-544, cfa-miR-545, cfa-miR-551a, cfa-miR-551b, cfa-miR-568, cfa-miR-574, cfa-miR-578, cfa-miR-582, cfa-miR-589, cfa-miR-590, cfa-miR-592, cfa-miR-599, cfa-miR-615, cfa-miR-628, cfa-miR-631, cfa-miR-632, cfa-miR-6516, cfa-miR-652, cfa-miR-6529, cfa-miR-653, cfa-miR-660, cfa-miR-664, cfa-miR-665, cfa-miR-671, cfa-miR-676, cfa-miR-7, cfa-miR-708, cfa-miR-718, cfa-miR-7180, cfa-miR-758, cfa-miR-759, cfa-miR-761, cfa-miR-764, cfa-miR-769, cfa-miR-802, cfa-miR-872, cfa-miR-874, cfa-miR-875, cfa-miR-876, cfa-miR-8789, cfa-miR-8790, cfa-miR-8791a, cfa-miR-8791b, cfa-miR-8792, cfa-miR-8793, cfa-miR-8794, cfa-miR-8795, cfa-miR-8796, cfa-miR-8797, cfa-miR-8798, cfa-miR-8799a, cfa-miR-8799b, cfa-miR-8799c, cfa-miR-8799d, cfa-miR-

8799e, cfa-miR-8799f, cfa-miR-8799g, cfa-miR-8800, cfa-miR-8801, cfa-miR-8802, cfa-miR-8803, cfa-miR-8804, cfa-miR-8805, cfa-miR-8806, cfa-miR-8807, cfa-miR-8808, cfa-miR-8809, cfa-miR-8810, cfa-miR-8811, cfa-miR-8812, cfa-miR-8813, cfa-miR-8814, cfa-miR-8815, cfa-miR-8816, cfa-miR-8817, cfa-miR-8818, cfa-miR-8819, cfa-miR-8820, cfa-miR-8821, cfa-miR-8822, cfa-miR-8823, cfa-miR-8824, cfa-miR-8825, cfa-miR-8826, cfa-miR-8827, cfa-miR-8828, cfa-miR-8829, cfa-miR-8830, cfa-miR-8831, cfa-miR-8832, cfa-miR-8833, cfa-miR-8834a, cfa-miR-8834b, cfa-miR-8835, cfa-miR-8836, cfa-miR-8837, cfa-miR-8838, cfa-miR-8839, cfa-miR-8840, cfa-miR-8841, cfa-miR-8842, cfa-miR-8843, cfa-miR-8844, cfa-miR-8845, cfa-miR-8846, cfa-miR-8847, cfa-miR-8848, cfa-miR-8849, cfa-miR-885, cfa-miR-8850, cfa-miR-8851, cfa-miR-8852, cfa-miR-8853, cfa-miR-8854, cfa-miR-8855, cfa-miR-8856, cfa-miR-8857, cfa-miR-8858, cfa-miR-8859a, cfa-miR-8859b, cfa-miR-8860, cfa-miR-8861, cfa-miR-8862, cfa-miR-8863, cfa-miR-8864, cfa-miR-8865, cfa-miR-8866, cfa-miR-8867, cfa-miR-8868, cfa-miR-8869, cfa-miR-8870, cfa-miR-8871, cfa-miR-8872, cfa-miR-8873a, cfa-miR-8873b, cfa-miR-8874, cfa-miR-8875, cfa-miR-8876, cfa-miR-8877, cfa-miR-8878, cfa-miR-8879, cfa-miR-8880, cfa-miR-8881, cfa-miR-8882, cfa-miR-8883, cfa-miR-8884, cfa-miR-8885, cfa-miR-8886, cfa-miR-8887, cfa-miR-8888, cfa-miR-8889, cfa-miR-889, cfa-miR-8890, cfa-miR-8891, cfa-miR-8892, cfa-miR-8893, cfa-miR-8894, cfa-miR-8895, cfa-miR-8896, cfa-miR-8897, cfa-miR-8898, cfa-miR-8899, cfa-miR-8900, cfa-miR-8901, cfa-miR-8902, cfa-miR-8903, cfa-miR-8904a, cfa-miR-8904b, cfa-miR-8905, cfa-miR-8906, cfa-miR-8907, cfa-miR-8908a-3p, cfa-miR-8908a-5p, cfa-miR-8908b, cfa-miR-8908c, cfa-miR-8908d, cfa-miR-8908e, cfa-miR-8908f, cfa-miR-9, cfa-miR-92a, cfa-miR-92b, cfa-miR-93, cfa-miR-95, cfa-miR-96, cfa-miR-98, cfa-miR-99a, cfa-miR-99b, cgr-let-7a, cgr-let-7a-2, cgr-let-7b, cgr-let-7c, cgr-let-7c-2, cgr-let-7d-3p, cgr-let-7d-5p, cgr-let-7e, cgr-let-7f, cgr-let-7g-3p, cgr-let-7g-5p, cgr-let-7i, cgr-miR-1, cgr-miR-100-3p, cgr-miR-100-5p, cgr-miR-101a, cgr-miR-101b-3p, cgr-miR-101b-5p, cgr-miR-103-3p, cgr-miR-103-5p, cgr-miR-106b-3p, cgr-miR-106b-5p, cgr-miR-107, cgr-miR-10a-3p, cgr-miR-10a-5p, cgr-miR-10b-3p, cgr-miR-10b-5p, cgr-miR-122, cgr-miR-1224, cgr-miR-124, cgr-miR-1249, cgr-miR-125a-3p, cgr-miR-125a-5p, cgr-miR-125b, cgr-miR-125b-3p, cgr-miR-125b-5p, cgr-miR-1260, cgr-miR-126a, cgr-miR-126b, cgr-miR-127, cgr-miR-1271, cgr-miR-128, cgr-miR-128-3p, cgr-miR-128-5p, cgr-miR-1285, cgr-miR-129, cgr-miR-1306-3p, cgr-miR-1306-5p, cgr-miR-130a-3p, cgr-miR-130a-5p, cgr-miR-130b-3p, cgr-miR-130b-5p, cgr-miR-132-3p, cgr-miR-132-5p, cgr-miR-134, cgr-miR-1343, cgr-miR-137-3p, cgr-miR-137-5p, cgr-miR-138, cgr-miR-139-3p, cgr-miR-139-5p, cgr-miR-140-3p, cgr-miR-140-5p, cgr-miR-141, cgr-miR-142-3p, cgr-miR-142-5p, cgr-miR-143, cgr-miR-144, cgr-miR-146a,

cgr-miR-146b-3p, cgr-miR-146b-5p, cgr-miR-147, cgr-miR-148a, cgr-miR-148b-3p, cgr-miR-148b-5p, cgr-miR-149-3p, cgr-miR-149-5p, cgr-miR-150, cgr-miR-151-3p, cgr-miR-151-5p, cgr-miR-152-3p, cgr-miR-152-5p, cgr-miR-154-3p, cgr-miR-154-5p, cgr-miR-155, cgr-miR-15a-3p, cgr-miR-15a-5p, cgr-miR-15b-3p, cgr-miR-15b-5p, cgr-miR-16, cgr-miR-16-3p, cgr-miR-16-5p, cgr-miR-17-3p, cgr-miR-17-5p, cgr-miR-181a-3p, cgr-miR-181a-5p, cgr-miR-181b-3p, cgr-miR-181b-5p, cgr-miR-181c-3p, cgr-miR-181c-5p, cgr-miR-181d-3p, cgr-miR-181d-5p, cgr-miR-182, cgr-miR-183, cgr-miR-1839-3p, cgr-miR-1839-5p, cgr-miR-184, cgr-miR-1843, cgr-miR-185-3p, cgr-miR-185-5p, cgr-miR-186-3p, cgr-miR-186-5p, cgr-miR-187, cgr-miR-188, cgr-miR-18a-3p, cgr-miR-18a-5p, cgr-miR-18b, cgr-miR-1903, cgr-miR-190a, cgr-miR-190b, cgr-miR-191-3p, cgr-miR-191-5p, cgr-miR-192, cgr-miR-193a, cgr-miR-193b-3p, cgr-miR-193b-5p, cgr-miR-194, cgr-miR-194-2, cgr-miR-1949, cgr-miR-195, cgr-miR-1956, cgr-miR-196a-3p, cgr-miR-196a-5p, cgr-miR-196b, cgr-miR-196c, cgr-miR-1973, cgr-miR-199a, cgr-miR-199a-3p, cgr-miR-199a-5p, cgr-miR-199b, cgr-miR-19a, cgr-miR-19b-3p, cgr-miR-19b-5p, cgr-miR-1b, cgr-miR-200a, cgr-miR-200b, cgr-miR-200c, cgr-miR-202, cgr-miR-204, cgr-miR-205, cgr-miR-206, cgr-miR-20a, cgr-miR-20b, cgr-miR-21-3p, cgr-miR-21-5p, cgr-miR-210-3p, cgr-miR-210-5p, cgr-miR-211, cgr-miR-212, cgr-miR-214-3p, cgr-miR-214-5p, cgr-miR-215-3p, cgr-miR-215-5p, cgr-miR-216b, cgr-miR-217, cgr-miR-218a, cgr-miR-219b, cgr-miR-22-3p, cgr-miR-22-5p, cgr-miR-221-3p, cgr-miR-221-5p, cgr-miR-222-3p, cgr-miR-222-5p, cgr-miR-23a-3p, cgr-miR-23a-5p, cgr-miR-23b-3p, cgr-miR-23b-5p, cgr-miR-24, cgr-miR-24-3p, cgr-miR-24-5p, cgr-miR-2424, cgr-miR-25-3p, cgr-miR-25-5p, cgr-miR-26a, cgr-miR-26a-2, cgr-miR-26b-3p, cgr-miR-26b-5p, cgr-miR-27a-3p, cgr-miR-27a-5p, cgr-miR-27b-3p, cgr-miR-27b-5p, cgr-miR-28-3p, cgr-miR-28-5p, cgr-miR-296, cgr-miR-298-3p, cgr-miR-298-5p, cgr-miR-29a-3p, cgr-miR-29a-5p, cgr-miR-29b, cgr-miR-29b-3p, cgr-miR-29b-5p, cgr-miR-29c-3p, cgr-miR-29c-5p, cgr-miR-300, cgr-miR-301a-3p, cgr-miR-301a-5p, cgr-miR-301b, cgr-miR-3068, cgr-miR-3072-3p, cgr-miR-3072-5p, cgr-miR-3074, cgr-miR-30a-3p, cgr-miR-30a-5p, cgr-miR-30b-3p, cgr-miR-30b-5p, cgr-miR-30c, cgr-miR-30c-2, cgr-miR-30d, cgr-miR-30e-3p, cgr-miR-30e-5p, cgr-miR-31-3p, cgr-miR-31-5p, cgr-miR-3102, cgr-miR-3154, cgr-miR-32-3p, cgr-miR-32-5p, cgr-miR-320a, cgr-miR-322-3p, cgr-miR-322-5p, cgr-miR-324-3p, cgr-miR-324-5p, cgr-miR-325-3p, cgr-miR-325-5p, cgr-miR-326, cgr-miR-328, cgr-miR-33, cgr-miR-330, cgr-miR-331-3p, cgr-miR-331-5p, cgr-miR-338, cgr-miR-339, cgr-miR-340-3p, cgr-miR-340-5p, cgr-miR-342-3p, cgr-miR-342-5p, cgr-miR-344, cgr-miR-345, cgr-miR-34a, cgr-miR-34b-3p, cgr-miR-34b-5p, cgr-miR-34c-3p, cgr-miR-34c-5p, cgr-miR-350-3p, cgr-miR-350-5p, cgr-miR-3535, cgr-miR-361, cgr-miR-362, cgr-miR-365, cgr-miR-365-3p, cgr-

miR-365-5p, cgr-miR-369-3p, cgr-miR-369-5p, cgr-miR-374-3p, cgr-miR-374-5p, cgr-miR-377-3p, cgr-miR-377-5p, cgr-miR-378-3p, cgr-miR-378-5p, cgr-miR-379, cgr-miR-381, cgr-miR-382, cgr-miR-384-3p, cgr-miR-384-5p, cgr-miR-409-3p, cgr-miR-409-5p, cgr-miR-410-3p, cgr-miR-410-5p, cgr-miR-412-3p, cgr-miR-412-5p, cgr-miR-423-3p, cgr-miR-423-5p, cgr-miR-425-3p, cgr-miR-425-5p, cgr-miR-429, cgr-miR-449a, cgr-miR-450a, cgr-miR-450b-3p, cgr-miR-450b-5p, cgr-miR-451a, cgr-miR-455-3p, cgr-miR-455-5p, cgr-miR-484, cgr-miR-486-3p, cgr-miR-486-5p, cgr-miR-496, cgr-miR-497-3p, cgr-miR-497-5p, cgr-miR-497b, cgr-miR-499-3p, cgr-miR-499-5p, cgr-miR-500, cgr-miR-501-3p, cgr-miR-501-5p, cgr-miR-503, cgr-miR-504, cgr-miR-505-3p, cgr-miR-505-5p, cgr-miR-532-3p, cgr-miR-532-5p, cgr-miR-542-3p, cgr-miR-542-5p, cgr-miR-574, cgr-miR-582, cgr-miR-598, cgr-miR-6091, cgr-miR-6092, cgr-miR-615-3p, cgr-miR-615-5p, cgr-miR-628, cgr-miR-632, cgr-miR-652-3p, cgr-miR-652-5p, cgr-miR-653, cgr-miR-664-3p, cgr-miR-664-5p, cgr-miR-671-3p, cgr-miR-671-5p, cgr-miR-672, cgr-miR-674, cgr-miR-702, cgr-miR-708, cgr-miR-744-3p, cgr-miR-744-5p, cgr-miR-760, cgr-miR-7a, cgr-miR-7b, cgr-miR-802, cgr-miR-872-3p, cgr-miR-872-5p, cgr-miR-874, cgr-miR-9, cgr-miR-92a-3p, cgr-miR-92a-5p, cgr-miR-92b-3p, cgr-miR-92b-5p, cgr-miR-93-3p, cgr-miR-93-5p, cgr-miR-98, cgr-miR-99a-3p, cgr-miR-99a-5p, cgr-miR-99b, chi-let-7a-3p, chi-let-7a-5p, chi-let-7b-3p, chi-let-7b-5p, chi-let-7c-3p, chi-let-7c-5p, chi-let-7d-3p, chi-let-7d-5p, chi-let-7e-3p, chi-let-7e-5p, chi-let-7f-3p, chi-let-7f-5p, chi-let-7g-3p, chi-let-7g-5p, chi-let-7i-3p, chi-let-7i-5p, chi-miR-1, chi-miR-100-3p, chi-miR-100-5p, chi-miR-101-3p, chi-miR-101-5p, chi-miR-103-3p, chi-miR-103-5p, chi-miR-105a, chi-miR-105b-3p, chi-miR-105b-5p, chi-miR-106a-3p, chi-miR-106a-5p, chi-miR-106b-3p, chi-miR-106b-5p, chi-miR-107-3p, chi-miR-10a-3p, chi-miR-10a-5p, chi-miR-10b-3p, chi-miR-10b-5p, chi-miR-1185-3p, chi-miR-1185-5p, chi-miR-1197-3p, chi-miR-122, chi-miR-1224, chi-miR-1248-5p, chi-miR-1249, chi-miR-124a, chi-miR-125a-3p, chi-miR-125a-5p, chi-miR-125b-3p, chi-miR-125b-5p, chi-miR-126-3p, chi-miR-126-5p, chi-miR-127-3p, chi-miR-127-5p, chi-miR-1271-3p, chi-miR-1271-5p, chi-miR-128-3p, chi-miR-128-5p, chi-miR-129-3p, chi-miR-129-5p, chi-miR-1291, chi-miR-1296, chi-miR-1306-3p, chi-miR-1306-5p, chi-miR-1307-3p, chi-miR-1307-5p, chi-miR-130a-3p, chi-miR-130a-5p, chi-miR-130b-3p, chi-miR-130b-5p, chi-miR-133a-3p, chi-miR-133a-5p, chi-miR-133b, chi-miR-134, chi-miR-1343, chi-miR-135a, chi-miR-135b-3p, chi-miR-135b-5p, chi-miR-136-3p, chi-miR-136-5p, chi-miR-137, chi-miR-1388-3p, chi-miR-1388-5p, chi-miR-140-3p, chi-miR-140-5p, chi-miR-141, chi-miR-143-3p, chi-miR-143-5p, chi-miR-144-3p, chi-miR-144-5p, chi-miR-145-3p, chi-miR-145-5p, chi-miR-1468-3p, chi-miR-1468-5p, chi-miR-146a, chi-miR-146b-3p, chi-miR-146b-5p, chi-miR-147-3p, chi-miR-147-5p, chi-miR-148a-

3p, chi-miR-148a-5p, chi-miR-148b-3p, chi-miR-148b-5p, chi-miR-150, chi-miR-151-3p, chi-miR-151-5p, chi-miR-153, chi-miR-154a-3p, chi-miR-154a-5p, chi-miR-154b-3p, chi-miR-154b-5p, chi-miR-155-3p, chi-miR-155-5p, chi-miR-15a-3p, chi-miR-15a-5p, chi-miR-15b-3p, chi-miR-15b-5p, chi-miR-16a-3p, chi-miR-16a-5p, chi-miR-16b-3p, chi-miR-16b-5p, chi-miR-17-3p, chi-miR-17-5p, chi-miR-1814, chi-miR-181b-3p, chi-miR-181b-5p, chi-miR-181c-3p, chi-miR-181c-5p, chi-miR-181d, chi-miR-182, chi-miR-183, chi-miR-1839, chi-miR-184, chi-miR-186-3p, chi-miR-186-5p, chi-miR-187, chi-miR-188-3p, chi-miR-188-5p, chi-miR-18a-3p, chi-miR-18a-5p, chi-miR-18b-3p, chi-miR-18b-5p, chi-miR-190a-3p, chi-miR-190a-5p, chi-miR-190b, chi-miR-191-3p, chi-miR-191-5p, chi-miR-192-3p, chi-miR-192-5p, chi-miR-193a, chi-miR-193b-3p, chi-miR-193b-5p, chi-miR-194, chi-miR-195-3p, chi-miR-195-5p, chi-miR-196a, chi-miR-196b, chi-miR-197-3p, chi-miR-197-5p, chi-miR-199a-3p, chi-miR-199a-5p, chi-miR-199b-3p, chi-miR-199b-5p, chi-miR-199c-3p, chi-miR-199c-5p, chi-miR-19a, chi-miR-19b-3p, chi-miR-19b-5p, chi-miR-200a, chi-miR-200b, chi-miR-200c, chi-miR-202-3p, chi-miR-202-5p, chi-miR-204-3p, chi-miR-204-5p, chi-miR-206, chi-miR-208b, chi-miR-20a-3p, chi-miR-20a-5p, chi-miR-20b, chi-miR-21-3p, chi-miR-21-5p, chi-miR-211, chi-miR-214-3p, chi-miR-214-5p, chi-miR-215-5p, chi-miR-216b, chi-miR-217-3p, chi-miR-217-5p, chi-miR-218, chi-miR-219, chi-miR-22-3p, chi-miR-22-5p, chi-miR-221-3p, chi-miR-221-5p, chi-miR-222-3p, chi-miR-223-3p, chi-miR-223-5p, chi-miR-224-3p, chi-miR-224-5p, chi-miR-2284a, chi-miR-2284b, chi-miR-2284c, chi-miR-2284d, chi-miR-2284e, chi-miR-2290, chi-miR-2318, chi-miR-2320, chi-miR-2331, chi-miR-2332, chi-miR-2335, chi-miR-23a, chi-miR-23b-3p, chi-miR-23b-5p, chi-miR-24-3p, chi-miR-24-5p, chi-miR-2404, chi-miR-2411-3p, chi-miR-2411-5p, chi-miR-2432, chi-miR-2483-3p, chi-miR-2483-5p, chi-miR-25-3p, chi-miR-25-5p, chi-miR-26a-3p, chi-miR-26a-5p, chi-miR-26b-3p, chi-miR-26b-5p, chi-miR-27a-3p, chi-miR-27a-5p, chi-miR-27b-3p, chi-miR-27b-5p, chi-miR-28-3p, chi-miR-28-5p, chi-miR-296-3p, chi-miR-29a-3p, chi-miR-29a-5p, chi-miR-29b-3p, chi-miR-29b-5p, chi-miR-29c-3p, chi-miR-29c-5p, chi-miR-301a-3p, chi-miR-301a-5p, chi-miR-301b, chi-miR-30a-3p, chi-miR-30a-5p, chi-miR-30b-3p, chi-miR-30b-5p, chi-miR-30c-3p, chi-miR-30c-5p, chi-miR-30d-3p, chi-miR-30e-3p, chi-miR-30e-5p, chi-miR-30f-3p, chi-miR-30f-5p, chi-miR-320-3p, chi-miR-323a-3p, chi-miR-323b, chi-miR-324-3p, chi-miR-324-5p, chi-miR-326-3p, chi-miR-326-5p, chi-miR-328-3p, chi-miR-329a-3p, chi-miR-329a-5p, chi-miR-329b-3p, chi-miR-330-3p, chi-miR-330-5p, chi-miR-331-3p, chi-miR-331-5p, chi-miR-335-3p, chi-miR-335-5p, chi-miR-338-3p, chi-miR-338-5p, chi-miR-33a-3p, chi-miR-33a-5p, chi-miR-33b-3p, chi-miR-33b-5p, chi-miR-340-3p, chi-miR-340-5p, chi-miR-342-3p, chi-miR-342-5p, chi-miR-3431-3p, chi-miR-3431-5p,

chi-miR-3432-3p, chi-miR-3432-5p, chi-miR-345-3p, chi-miR-345-5p, chi-miR-346-5p, chi-miR-34a, chi-miR-34b-3p, chi-miR-34b-5p, chi-miR-34c-3p, chi-miR-34c-5p, chi-miR-361-3p, chi-miR-361-5p, chi-miR-362-3p, chi-miR-362-5p, chi-miR-363-3p, chi-miR-363-5p, chi-miR-365-3p, chi-miR-369-3p, chi-miR-369-5p, chi-miR-374a-3p, chi-miR-374a-5p, chi-miR-374b-3p, chi-miR-374b-5p, chi-miR-376a, chi-miR-376b-3p, chi-miR-376b-5p, chi-miR-376c-3p, chi-miR-376c-5p, chi-miR-376d, chi-miR-376e-3p, chi-miR-376e-5p, chi-miR-377, chi-miR-378-3p, chi-miR-378-5p, chi-miR-379-3p, chi-miR-379-5p, chi-miR-380-3p, chi-miR-380-5p, chi-miR-381, chi-miR-382-3p, chi-miR-382-5p, chi-miR-383, chi-miR-3955-3p, chi-miR-3955-5p, chi-miR-3958-3p, chi-miR-3958-5p, chi-miR-3959-3p, chi-miR-3959-5p, chi-miR-409-3p, chi-miR-409-5p, chi-miR-410-3p, chi-miR-410-5p, chi-miR-411a-3p, chi-miR-411a-5p, chi-miR-411b-3p, chi-miR-411b-5p, chi-miR-412-3p, chi-miR-412-5p, chi-miR-421-3p, chi-miR-423-3p, chi-miR-423-5p, chi-miR-424-3p, chi-miR-424-5p, chi-miR-425-3p, chi-miR-425-5p, chi-miR-429, chi-miR-432-3p, chi-miR-432-5p, chi-miR-433, chi-miR-449a-3p, chi-miR-449a-5p, chi-miR-449b-3p, chi-miR-449b-5p, chi-miR-449c, chi-miR-450-3p, chi-miR-450-5p, chi-miR-451-3p, chi-miR-451-5p, chi-miR-454-3p, chi-miR-454-5p, chi-miR-455-3p, chi-miR-455-5p, chi-miR-483, chi-miR-485-3p, chi-miR-485-5p, chi-miR-487a-3p, chi-miR-487a-5p, chi-miR-487b-3p, chi-miR-487b-5p, chi-miR-490, chi-miR-491-3p, chi-miR-491-5p, chi-miR-493-3p, chi-miR-493-5p, chi-miR-494, chi-miR-495-3p, chi-miR-496-3p, chi-miR-496-5p, chi-miR-497-3p, chi-miR-497-5p, chi-miR-499-3p, chi-miR-499-5p, chi-miR-500-3p, chi-miR-500-5p, chi-miR-502a, chi-miR-502b-3p, chi-miR-502b-5p, chi-miR-504, chi-miR-505-3p, chi-miR-532-3p, chi-miR-532-5p, chi-miR-542-3p, chi-miR-542-5p, chi-miR-543-3p, chi-miR-543-5p, chi-miR-544-5p, chi-miR-545-3p, chi-miR-545-5p, chi-miR-582-5p, chi-miR-592, chi-miR-628-5p, chi-miR-655, chi-miR-656, chi-miR-660, chi-miR-665, chi-miR-671-3p, chi-miR-671-5p, chi-miR-7-3p, chi-miR-7-5p, chi-miR-708-3p, chi-miR-708-5p, chi-miR-758, chi-miR-767, chi-miR-873-3p, chi-miR-873-5p, chi-miR-874-3p, chi-miR-874-5p, chi-miR-876-3p, chi-miR-876-5p, chi-miR-877-3p, chi-miR-877-5p, chi-miR-9-3p, chi-miR-9-5p, chi-miR-92a-3p, chi-miR-92a-5p, chi-miR-92b, chi-miR-93-3p, chi-miR-93-5p, chi-miR-96, chi-miR-98-3p, chi-miR-98-5p, chi-miR-99a-3p, chi-miR-99a-5p, chi-miR-99b-3p, chi-miR-99b-5p, cin-let-7a-1-3p, cin-let-7a-2-3p, cin-let-7a-5p, cin-let-7b-3p, cin-let-7b-5p, cin-let-7c, cin-let-7d-3p, cin-let-7d-5p, cin-let-7e, cin-let-7f-3p, cin-let-7f-5p, cin-miR-1-3p, cin-miR-1-5p, cin-miR-101, cin-miR-124-1-5p, cin-miR-124-2-5p, cin-miR-124-3p, cin-miR-125-3p, cin-miR-125-5p, cin-miR-126-3p, cin-miR-126-5p, cin-miR-132-5p, cin-miR-133-3p, cin-miR-133-5p, cin-miR-135-3p, cin-miR-135-5p, cin-miR-141-3p, cin-miR-141-5p, cin-miR-1473-3p, cin-miR-1473-5p, cin-miR-

1497-3p, cin-miR-1497-5p, cin-miR-15-3p, cin-miR-15-5p, cin-miR-1502a-3p, cin-miR-1502a-5p, cin-miR-1502b-3p, cin-miR-1502b-5p, cin-miR-1502c-3p, cin-miR-1502c-5p, cin-miR-1502d-3p, cin-miR-1502d-5p, cin-miR-153-3p, cin-miR-153-5p, cin-miR-155, cin-miR-181, cin-miR-182-3p, cin-miR-182-5p, cin-miR-183-3p, cin-miR-183-5p, cin-miR-184, cin-miR-196-3p, cin-miR-196-5p, cin-miR-199-3p, cin-miR-200-3p, cin-miR-200-5p, cin-miR-216, cin-miR-217, cin-miR-219-3p, cin-miR-219-5p, cin-miR-281-3p, cin-miR-281-5p, cin-miR-29-3p, cin-miR-29-5p, cin-miR-31, cin-miR-33, cin-miR-34-3p, cin-miR-34-5p, cin-miR-3575-3p, cin-miR-3575-5p, cin-miR-3598-3p, cin-miR-3598-5p, cin-miR-3599-3p, cin-miR-3599-5p, cin-miR-367-3p, cin-miR-367-5p, cin-miR-375-3p, cin-miR-375-5p, cin-miR-4000a-2-3p, cin-miR-4000a-3p, cin-miR-4000a-5p, cin-miR-4000b-1-3p, cin-miR-4000b-2-3p, cin-miR-4000b-5p, cin-miR-4000c-3p, cin-miR-4000c-5p, cin-miR-4000d-3p, cin-miR-4000d-5p, cin-miR-4000e-3p, cin-miR-4000e-5p, cin-miR-4000f-3p, cin-miR-4000f-5p, cin-miR-4000g-3p, cin-miR-4000g-5p, cin-miR-4000h-3p, cin-miR-4000h-5p, cin-miR-4000i-3p, cin-miR-4000i-5p, cin-miR-4001a-1-3p, cin-miR-4001a-2-3p, cin-miR-4001a-5p, cin-miR-4001b-1-3p, cin-miR-4001b-2-3p, cin-miR-4001b-5p, cin-miR-4001c-3p, cin-miR-4001c-5p, cin-miR-4001d-3p, cin-miR-4001d-5p, cin-miR-4001e-3p, cin-miR-4001e-5p, cin-miR-4001f-3p, cin-miR-4001f-5p, cin-miR-4001g-3p, cin-miR-4001h-3p, cin-miR-4001h-5p, cin-miR-4001i-3p, cin-miR-4001i-5p, cin-miR-4002-3p, cin-miR-4002-5p, cin-miR-4003a-3p, cin-miR-4003a-5p, cin-miR-4003b-3p, cin-miR-4003b-5p, cin-miR-4003c-3p, cin-miR-4003c-5p, cin-miR-4003d-3p, cin-miR-4004-5p, cin-miR-4005a-3p, cin-miR-4005a-5p, cin-miR-4005b-3p, cin-miR-4005b-5p, cin-miR-4005c-5p, cin-miR-4006a-1-3p, cin-miR-4006a-2-3p, cin-miR-4006a-3-3p, cin-miR-4006a-5p, cin-miR-4006b-3p, cin-miR-4006b-5p, cin-miR-4006c-3p, cin-miR-4006c-5p, cin-miR-4006d-3p, cin-miR-4006d-5p, cin-miR-4006e-3p, cin-miR-4006e-5p, cin-miR-4006f-3p, cin-miR-4006f-5p, cin-miR-4006g-3p, cin-miR-4006g-5p, cin-miR-4007-5p, cin-miR-4008a-3p, cin-miR-4008a-5p, cin-miR-4008b-3p, cin-miR-4008b-5p, cin-miR-4008c-3p, cin-miR-4008c-5p, cin-miR-4009a-3p, cin-miR-4009a-5p, cin-miR-4009b-3p, cin-miR-4009b-5p, cin-miR-4009c-3p, cin-miR-4010-3p, cin-miR-4010-5p, cin-miR-4011a-3p, cin-miR-4011a-5p, cin-miR-4011b-3p, cin-miR-4011b-5p, cin-miR-4012-3p, cin-miR-4012-5p, cin-miR-4013a-3p, cin-miR-4013a-5p, cin-miR-4013b-3p, cin-miR-4013b-5p, cin-miR-4014-1-5p, cin-miR-4014-2-5p, cin-miR-4014-3p, cin-miR-4015-3p, cin-miR-4015-5p, cin-miR-4016, cin-miR-4017-3p, cin-miR-4017-5p, cin-miR-4018a-3p, cin-miR-4018a-5p, cin-miR-4018b-3p, cin-miR-4018b-5p, cin-miR-4019-3p, cin-miR-4019-5p, cin-miR-4020a-5p, cin-miR-4020b-3p, cin-miR-4020b-5p, cin-miR-4021-3p, cin-miR-4021-5p, cin-miR-4022-3p, cin-miR-4023-3p, cin-miR-4024-3p, cin-miR-4024-5p,

cin-miR-4025-5p, cin-miR-4026-3p, cin-miR-4026-5p, cin-miR-4027-3p, cin-miR-4027-5p, cin-miR-4028-3p, cin-miR-4029-3p, cin-miR-4029-5p, cin-miR-4030-3p, cin-miR-4030-5p, cin-miR-4031-3p, cin-miR-4031-5p, cin-miR-4032-3p, cin-miR-4032-5p, cin-miR-4033-3p, cin-miR-4033-5p, cin-miR-4034-3p, cin-miR-4034-5p, cin-miR-4035-3p, cin-miR-4035-5p, cin-miR-4036-3p, cin-miR-4036-5p, cin-miR-4037-3p, cin-miR-4037-5p, cin-miR-4038-3p, cin-miR-4038-5p, cin-miR-4039-3p, cin-miR-4039-5p, cin-miR-4040-3p, cin-miR-4040-5p, cin-miR-4041-3p, cin-miR-4041-5p, cin-miR-4042-3p, cin-miR-4042-5p, cin-miR-4043-3p, cin-miR-4043-5p, cin-miR-4044-3p, cin-miR-4044-5p, cin-miR-4045-3p, cin-miR-4045-5p, cin-miR-4046-3p, cin-miR-4046-5p, cin-miR-4047-3p, cin-miR-4047-5p, cin-miR-4048-3p, cin-miR-4048-5p, cin-miR-4049-3p, cin-miR-4049-5p, cin-miR-4050-3p, cin-miR-4050-5p, cin-miR-4051-3p, cin-miR-4051-5p, cin-miR-4052-3p, cin-miR-4052-5p, cin-miR-4053-3p, cin-miR-4053-5p, cin-miR-4054-3p, cin-miR-4054-5p, cin-miR-4055-3p, cin-miR-4055-5p, cin-miR-4056-3p, cin-miR-4056-5p, cin-miR-4057-3p, cin-miR-4057-5p, cin-miR-4058-5p, cin-miR-4059-3p, cin-miR-4059-5p, cin-miR-4060-3p, cin-miR-4060-5p, cin-miR-4061-3p, cin-miR-4061-5p, cin-miR-4062-3p, cin-miR-4062-5p, cin-miR-4063-3p, cin-miR-4063-5p, cin-miR-4064-3p, cin-miR-4064-5p, cin-miR-4065-3p, cin-miR-4065-5p, cin-miR-4066-3p, cin-miR-4066-5p, cin-miR-4067-3p, cin-miR-4067-5p, cin-miR-4068-3p, cin-miR-4068-5p, cin-miR-4069-3p, cin-miR-4069-5p, cin-miR-4070-3p, cin-miR-4070-5p, cin-miR-4071-3p, cin-miR-4071-5p, cin-miR-4072-3p, cin-miR-4072-5p, cin-miR-4073-3p, cin-miR-4073-5p, cin-miR-4074-3p, cin-miR-4074-5p, cin-miR-4075-3p, cin-miR-4075-5p, cin-miR-4076-3p, cin-miR-4076-5p, cin-miR-4077a-5p, cin-miR-4077b-5p, cin-miR-4077c-5p, cin-miR-4077d-5p, cin-miR-4078-3p, cin-miR-4078-5p, cin-miR-4079-3p, cin-miR-4079-5p, cin-miR-4080-3p, cin-miR-4080-5p, cin-miR-4081-3p, cin-miR-4081-5p, cin-miR-4082-3p, cin-miR-4082-5p, cin-miR-4083-3p, cin-miR-4083-5p, cin-miR-4084-3p, cin-miR-4084-5p, cin-miR-4085-3p, cin-miR-4085-5p, cin-miR-4086-3p, cin-miR-4087-3p, cin-miR-4087-5p, cin-miR-4088-3p, cin-miR-4088-5p, cin-miR-4089-5p, cin-miR-4090-3p, cin-miR-4091-3p, cin-miR-4091-5p, cin-miR-4092-3p, cin-miR-4092-5p, cin-miR-4093-3p, cin-miR-4093-5p, cin-miR-4094-3p, cin-miR-4094-5p, cin-miR-4095-5p, cin-miR-4096-3p, cin-miR-4097-3p, cin-miR-4097-5p, cin-miR-4098-3p, cin-miR-4098-5p, cin-miR-4099-3p, cin-miR-4099-5p, cin-miR-4100-3p, cin-miR-4100-5p, cin-miR-4101-3p, cin-miR-4102-3p, cin-miR-4102-5p, cin-miR-4103-3p, cin-miR-4104-5p, cin-miR-4105-5p, cin-miR-4106-3p, cin-miR-4107-5p, cin-miR-4108-5p, cin-miR-4109-3p, cin-miR-4109-5p, cin-miR-4110-3p, cin-miR-4110-5p, cin-miR-4111-3p, cin-miR-4112-3p, cin-miR-4112-5p, cin-miR-4113-5p, cin-miR-4114-5p, cin-miR-4115-3p, cin-miR-4115-5p, cin-miR-4116-5p, cin-miR-4117-5p, cin-miR-4118-3p, cin-miR-4119-

3p, cin-miR-4119-5p, cin-miR-4120-5p, cin-miR-4121-3p, cin-miR-4122-3p, cin-miR-4123-3p, cin-miR-4123-5p, cin-miR-4124-5p, cin-miR-4125-5p, cin-miR-4126-5p, cin-miR-4127-3p, cin-miR-4127-5p, cin-miR-4128-3p, cin-miR-4129-3p, cin-miR-4130-3p, cin-miR-4131-3p, cin-miR-4131-5p, cin-miR-4132-3p, cin-miR-4132-5p, cin-miR-4133-3p, cin-miR-4134-5p, cin-miR-4135-3p, cin-miR-4136-3p, cin-miR-4137-3p, cin-miR-4138-5p, cin-miR-4139-3p, cin-miR-4139-5p, cin-miR-4140-3p, cin-miR-4140-5p, cin-miR-4141-3p, cin-miR-4141-5p, cin-miR-4142-3p, cin-miR-4142-5p, cin-miR-4143-3p, cin-miR-4143-5p, cin-miR-4144-3p, cin-miR-4144-5p, cin-miR-4145-3p, cin-miR-4146-3p, cin-miR-4147-3p, cin-miR-4148-5p, cin-miR-4149-5p, cin-miR-4150-5p, cin-miR-4151-3p, cin-miR-4151-5p, cin-miR-4152-5p, cin-miR-4153-3p, cin-miR-4154-3p, cin-miR-4155-3p, cin-miR-4155-5p, cin-miR-4156-3p, cin-miR-4156-5p, cin-miR-4157-5p, cin-miR-4158-5p, cin-miR-4159-3p, cin-miR-4160-3p, cin-miR-4162-3p, cin-miR-4162-5p, cin-miR-4163-3p, cin-miR-4163-5p, cin-miR-4164-3p, cin-miR-4165-3p, cin-miR-4166-5p, cin-miR-4167-5p, cin-miR-4168-3p, cin-miR-4169-3p, cin-miR-4170-5p, cin-miR-4171-5p, cin-miR-4172-3p, cin-miR-4173-3p, cin-miR-4173-5p, cin-miR-4174-3p, cin-miR-4175-3p, cin-miR-4176-5p, cin-miR-4177-3p, cin-miR-4177-5p, cin-miR-4178a-5p, cin-miR-4178b-5p, cin-miR-4179a-3p, cin-miR-4179a-5p, cin-miR-4179b-3p, cin-miR-4179b-5p, cin-miR-4180-3p, cin-miR-4180-5p, cin-miR-4181-3p, cin-miR-4181-5p, cin-miR-4182-3p, cin-miR-4182-5p, cin-miR-4183-3p, cin-miR-4183-5p, cin-miR-4184-3p, cin-miR-4185-3p, cin-miR-4185-5p, cin-miR-4186-5p, cin-miR-4187-5p, cin-miR-4188-5p, cin-miR-4189-5p, cin-miR-4190-5p, cin-miR-4191-5p, cin-miR-4192-3p, cin-miR-4193-5p, cin-miR-4194-3p, cin-miR-4194-5p, cin-miR-4195-3p, cin-miR-4196-5p, cin-miR-4197-5p, cin-miR-4198-5p, cin-miR-4199-3p, cin-miR-4200-3p, cin-miR-4200-5p, cin-miR-4201-5p, cin-miR-4202-5p, cin-miR-4203-3p, cin-miR-4204-3p, cin-miR-4204-5p, cin-miR-4205-5p, cin-miR-4206-3p, cin-miR-4207-3p, cin-miR-4208-3p, cin-miR-4209-5p, cin-miR-4210-5p, cin-miR-4211-5p, cin-miR-4212-3p, cin-miR-4213-5p, cin-miR-4214-5p, cin-miR-4215-3p, cin-miR-4216-3p, cin-miR-4216-5p, cin-miR-4217-3p, cin-miR-4218-5p, cin-miR-4219-5p, cin-miR-4220-3p, cin-miR-4220-5p, cin-miR-5596a-3p, cin-miR-5596a-5p, cin-miR-5596b-3p, cin-miR-5596b-5p, cin-miR-5597-3p, cin-miR-5597-5p, cin-miR-5598-3p, cin-miR-5598-5p, cin-miR-5599-3p, cin-miR-5599-5p, cin-miR-5600-3p, cin-miR-5600-5p, cin-miR-5601-3p, cin-miR-5601-5p, cin-miR-5602-3p, cin-miR-5602-5p, cin-miR-5603-3p, cin-miR-5603-5p, cin-miR-5604-3p, cin-miR-5604-5p, cin-miR-5605-3p, cin-miR-5605-5p, cin-miR-5606-3p, cin-miR-5606-5p, cin-miR-5607-3p, cin-miR-5607-5p, cin-miR-5608-3p, cin-miR-5608-5p, cin-miR-5609-3p, cin-miR-5609-5p, cin-miR-5610-3p, cin-miR-5610-5p, cin-miR-5611-3p, cin-miR-5611-5p, cin-miR-5612-3p, cin-miR-5612-5p, cin-miR-672,

cin-miR-7-3p, cin-miR-7-5p, cin-miR-78, cin-miR-9-5p, cin-miR-92a-3p, cin-miR-92a-5p, cin-miR-92b-3p, cin-miR-92b-5p, cin-miR-92c-3p, cin-miR-92c-5p, cin-miR-92d-3p, cin-miR-92d-5p, cin-miR-92e-3p, cin-miR-92e-5p, cin-miR-96-3p, cin-miR-96-5p, cja-let-7a, cja-let-7b, cja-let-7c, cja-let-7d, cja-let-7e, cja-let-7f, cja-let-7g, cja-let-7i, cja-miR-100, cja-miR-101, cja-miR-101-2, cja-miR-103a, cja-miR-103b, cja-miR-105, cja-miR-106b, cja-miR-10a, cja-miR-10b, cja-miR-1185, cja-miR-1193, cja-miR-122, cja-miR-124, cja-miR-1240, cja-miR-1247, cja-miR-1249, cja-miR-125, cja-miR-1251, cja-miR-1253, cja-miR-1258a, cja-miR-1258b, cja-miR-125a, cja-miR-125b, cja-miR-126, cja-miR-1264, cja-miR-127, cja-miR-128, cja-miR-1282, cja-miR-129, cja-miR-1294, cja-miR-1296, cja-miR-1298, cja-miR-1301, cja-miR-1302, cja-miR-1305, cja-miR-1306, cja-miR-1307, cja-miR-130a, cja-miR-130b, cja-miR-132, cja-miR-1323, cja-miR-1327, cja-miR-133a, cja-miR-133b, cja-miR-134, cja-miR-135, cja-miR-137, cja-miR-138, cja-miR-139, cja-miR-140, cja-miR-141, cja-miR-142, cja-miR-143, cja-miR-144, cja-miR-145, cja-miR-1468, cja-miR-146a, cja-miR-146b, cja-miR-148a, cja-miR-148b, cja-miR-150, cja-miR-151, cja-miR-152, cja-miR-153, cja-miR-154, cja-miR-155, cja-miR-15b, cja-miR-16, cja-miR-17, cja-miR-181a, cja-miR-181b, cja-miR-181c, cja-miR-181d, cja-miR-182, cja-miR-183, cja-miR-184, cja-miR-185, cja-miR-186, cja-miR-187, cja-miR-1895, cja-miR-1898, cja-miR-190a, cja-miR-190b, cja-miR-191, cja-miR-1911, cja-miR-193, cja-miR-194, cja-miR-196a, cja-miR-196b, cja-miR-197, cja-miR-199, cja-miR-19a, cja-miR-19b, cja-miR-1a, cja-miR-1b-3p, cja-miR-1b-5p, cja-miR-200c, cja-miR-202, cja-miR-203, cja-miR-204, cja-miR-205, cja-miR-2053, cja-miR-206, cja-miR-208a, cja-miR-208b, cja-miR-20a, cja-miR-20b, cja-miR-21, cja-miR-211, cja-miR-2114, cja-miR-214, cja-miR-215, cja-miR-216a, cja-miR-216b, cja-miR-217, cja-miR-218, cja-miR-219, cja-miR-22, cja-miR-222, cja-miR-223, cja-miR-224, cja-miR-2338, cja-miR-2355, cja-miR-23a, cja-miR-23b, cja-miR-24, cja-miR-25, cja-miR-26a, cja-miR-26b, cja-miR-27a, cja-miR-27b, cja-miR-28, cja-miR-296, cja-miR-2968, cja-miR-299, cja-miR-29a, cja-miR-29b, cja-miR-29c, cja-miR-301a, cja-miR-302a-3p, cja-miR-302a-5p, cja-miR-302b, cja-miR-302c, cja-miR-302d-3p, cja-miR-302d-5p, cja-miR-3065, cja-miR-3074, cja-miR-30a, cja-miR-30b, cja-miR-30c, cja-miR-30d, cja-miR-30e, cja-miR-31, cja-miR-3118, cja-miR-3120, cja-miR-3135, cja-miR-3152, cja-miR-32, cja-miR-320, cja-miR-323, cja-miR-324, cja-miR-328, cja-miR-329, cja-miR-33, cja-miR-330, cja-miR-331, cja-miR-335-3p, cja-miR-335-5p, cja-miR-337, cja-miR-338, cja-miR-339, cja-miR-340, cja-miR-342, cja-miR-345, cja-miR-34a, cja-miR-34b, cja-miR-34c, cja-miR-3544, cja-miR-3546, cja-miR-3576, cja-miR-361, cja-miR-363, cja-miR-365, cja-miR-367, cja-miR-3688, cja-miR-369-3p, cja-miR-369-5p, cja-miR-371a, cja-miR-371b-3p, cja-miR-371b-5p, cja-miR-

372, cja-miR-373, cja-miR-374a, cja-miR-374b, cja-miR-376a-3p, cja-miR-376a-5p, cja-miR-376b, cja-miR-377, cja-miR-378, cja-miR-379, cja-miR-381, cja-miR-382, cja-miR-383a, cja-miR-383b, cja-miR-3940, cja-miR-409, cja-miR-410, cja-miR-411, cja-miR-412, cja-miR-421, cja-miR-423-3p, cja-miR-423-5p, cja-miR-424, cja-miR-429, cja-miR-432, cja-miR-4460, cja-miR-448, cja-miR-449a, cja-miR-449c, cja-miR-4503, cja-miR-450a, cja-miR-450b, cja-miR-450c, cja-miR-451, cja-miR-4512, cja-miR-452, cja-miR-455, cja-miR-466a, cja-miR-466b, cja-miR-4679, cja-miR-4683, cja-miR-4745, cja-miR-4762, cja-miR-4772, cja-miR-4780, cja-miR-4790, cja-miR-483, cja-miR-484, cja-miR-485, cja-miR-487a, cja-miR-487b, cja-miR-488, cja-miR-489, cja-miR-491, cja-miR-493, cja-miR-494, cja-miR-495, cja-miR-497, cja-miR-498, cja-miR-499a, cja-miR-499b, cja-miR-502b, cja-miR-503, cja-miR-504, cja-miR-505, cja-miR-506, cja-miR-507, cja-miR-508, cja-miR-509, cja-miR-510a, cja-miR-510b, cja-miR-513a-3p, cja-miR-513a-5p, cja-miR-513b-5p, cja-miR-513c-5p, cja-miR-513d-5p, cja-miR-513e-3p, cja-miR-513f-3p, cja-miR-513f-5p, cja-miR-513g-3p, cja-miR-513h-3p, cja-miR-514a, cja-miR-514b, cja-miR-518a, cja-miR-518b, cja-miR-5191, cja-miR-519a, cja-miR-519b, cja-miR-519c, cja-miR-521, cja-miR-523, cja-miR-532, cja-miR-539, cja-miR-541, cja-miR-542-3p, cja-miR-542-5p, cja-miR-543, cja-miR-544, cja-miR-545, cja-miR-548a, cja-miR-548b, cja-miR-548c, cja-miR-548d, cja-miR-548e, cja-miR-548f, cja-miR-548g, cja-miR-548h, cja-miR-548i, cja-miR-548j, cja-miR-548k, cja-miR-548l, cja-miR-548m, cja-miR-548n, cja-miR-548o, cja-miR-548p, cja-miR-548q, cja-miR-548r, cja-miR-548s, cja-miR-548t, cja-miR-548u, cja-miR-548v, cja-miR-548w, cja-miR-548x, cja-miR-548y, cja-miR-551, cja-miR-556, cja-miR-557, cja-miR-559, cja-miR-561, cja-miR-569, cja-miR-577, cja-miR-580, cja-miR-581, cja-miR-582, cja-miR-584, cja-miR-586, cja-miR-589, cja-miR-598, cja-miR-612, cja-miR-615, cja-miR-616, cja-miR-617, cja-miR-622, cja-miR-628, cja-miR-631, cja-miR-638, cja-miR-651, cja-miR-6529, cja-miR-652a, cja-miR-652b, cja-miR-653, cja-miR-654, cja-miR-655, cja-miR-656, cja-miR-660, cja-miR-665, cja-miR-670, cja-miR-671, cja-miR-675, cja-miR-676, cja-miR-7, cja-miR-708, cja-miR-759, cja-miR-761, cja-miR-763, cja-miR-767, cja-miR-769, cja-miR-770, cja-miR-873, cja-miR-875-3p, cja-miR-875-5p, cja-miR-876, cja-miR-885, cja-miR-887-3p, cja-miR-887-5p, cja-miR-889, cja-miR-891b, cja-miR-891c, cja-miR-891d, cja-miR-9, cja-miR-92a, cja-miR-92b, cja-miR-93, cja-miR-934, cja-miR-942, cja-miR-95, cja-miR-96, cja-miR-98, cja-miR-99, cja-miR-9904, cja-miR-9905, cja-miR-9906, cja-miR-9907, cja-miR-9908, cja-miR-9909, cja-miR-9910, cja-miR-9911, cja-miR-9912, cja-miR-9913, cja-miR-9914, cja-miR-9915, cja-miR-9916, cja-miR-9917, cja-miR-9918, cja-miR-9919, cja-miR-9921, cja-miR-9922, cja-miR-9923, cja-miR-9924, cja-miR-9925, cja-miR-9926, cja-miR-9927,

cja-miR-9928, cja-miR-9929, cja-miR-9930, cja-miR-9931, cja-miR-9932, cja-miR-9933, cja-miR-9934, cja-miR-9935, cja-miR-9936, cja-miR-9937, cja-miR-9938, cja-miR-9939, cja-miR-9940, cja-miR-9941, cja-miR-9942, cja-miR-9943, cja-miR-9944, cja-miR-9945, cja-miR-9946, cja-miR-9947, cja-miR-9948a, cja-miR-9948b, cja-miR-9949, cja-miR-9950, cja-miR-9951, cja-miR-9952a, cja-miR-9952b, cja-miR-9952c, cja-miR-9953, cja-miR-9954, cja-miR-9955, cja-miR-9956, cja-miR-9957, cja-miR-9958, cja-miR-9959, cja-miR-9960, cja-miR-9961, cja-miR-9962, cja-miR-9963, cja-miR-9964, cja-miR-9965, cja-miR-9966, cja-miR-9967, cja-miR-9968, cja-miR-9969, cja-miR-9970, cja-miR-9971, cja-miR-9972, cja-miR-9973, cja-miR-9974, cja-miR-9975, cja-miR-9976, cja-miR-9977, cja-miR-9978, cja-miR-9979, cja-miR-9980, cja-miR-9981, cja-miR-9982, cja-miR-9983, cja-miR-9984, cla-miR-1992, cla-miR-1994, cli-let-7a-2-3p, cli-let-7a-3p, cli-let-7a-4-3p, cli-let-7a-5p, cli-let-7b-3p, cli-let-7c-3p, cli-let-7c-5p, cli-let-7d-3p, cli-let-7d-5p, cli-let-7e-3p, cli-let-7e-5p, cli-let-7f-3p, cli-let-7f-5p, cli-let-7g-3p, cli-let-7g-5p, cli-let-7i-3p, cli-let-7i-5p, cli-miR-100-3p, cli-miR-100-5p, cli-miR-101-2-5p, cli-miR-101-3p, cli-miR-101-5p, cli-miR-103-3p, cli-miR-103-5p, cli-miR-106-3p, cli-miR-106-5p, cli-miR-107-3p, cli-miR-107-5p, cli-miR-10a-3p, cli-miR-10a-5p, cli-miR-10b-3p, cli-miR-10b-5p, cli-miR-10c-3p, cli-miR-10c-5p, cli-miR-122-3p, cli-miR-122-5p, cli-miR-124-2-5p, cli-miR-124-3p, cli-miR-124-5p, cli-miR-125-2-3p, cli-miR-125-3p, cli-miR-125-5p, cli-miR-126-3p, cli-miR-126-5p, cli-miR-128-3p, cli-miR-128-5p, cli-miR-129-3p, cli-miR-129-5p, cli-miR-1306-3p, cli-miR-1306-5p, cli-miR-130a-3p, cli-miR-130a-5p, cli-miR-130c-3p, cli-miR-130c-5p, cli-miR-1329-3p, cli-miR-1329-5p, cli-miR-133a-3p, cli-miR-133a-5p, cli-miR-133b-3p, cli-miR-133b-5p, cli-miR-133c-3p, cli-miR-135-2-3p, cli-miR-135-3-3p, cli-miR-135-3p, cli-miR-135-5p, cli-miR-137a-3p, cli-miR-137a-5p, cli-miR-137b-3p, cli-miR-137b-5p, cli-miR-138-2-3p, cli-miR-138-3p, cli-miR-138-5p, cli-miR-1388-3p, cli-miR-1388-5p, cli-miR-139-3p, cli-miR-139-5p, cli-miR-140-3p, cli-miR-140-5p, cli-miR-1416-3p, cli-miR-1416-5p, cli-miR-142-3p, cli-miR-142-5p, cli-miR-143-3p, cli-miR-143-5p, cli-miR-145-3p, cli-miR-145-5p, cli-miR-1451-3p, cli-miR-1451-5p, cli-miR-1467-3p, cli-miR-1467-5p, cli-miR-146a-3p, cli-miR-146a-5p, cli-miR-146b-3p, cli-miR-146b-5p, cli-miR-146c-3p, cli-miR-146c-5p, cli-miR-147-3p, cli-miR-148a-3p, cli-miR-148a-5p, cli-miR-148b-3p, cli-miR-153a-3p, cli-miR-153a-5p, cli-miR-153b-3p, cli-miR-153b-5p, cli-miR-155-5p, cli-miR-1550-5p, cli-miR-1552-3p, cli-miR-1552-5p, cli-miR-1559-3p, cli-miR-1559-5p, cli-miR-15a-3p, cli-miR-15a-5p, cli-miR-15b-3p, cli-miR-15b-5p, cli-miR-15c-3p, cli-miR-15c-5p, cli-miR-1641-5p, cli-miR-1655-3p, cli-miR-1662-3p, cli-miR-1662-5p, cli-miR-1677-3p, cli-miR-1677-5p, cli-miR-16a-2-3p, cli-miR-16a-3p, cli-miR-16a-5p, cli-miR-16b-3p, cli-miR-16b-5p, cli-miR-

17-3p, cli-miR-17-5p, cli-miR-1720-3p, cli-miR-1720-5p, cli-miR-1729-3p, cli-miR-1729-5p, cli-miR-1756a-3p, cli-miR-1756b-3p, cli-miR-1756b-5p, cli-miR-1781-3p, cli-miR-1782-3p, cli-miR-1784-5p, cli-miR-1788-3p, cli-miR-1788-5p, cli-miR-1791-3p, cli-miR-1803-3p, cli-miR-1803-5p, cli-miR-1805-3p, cli-miR-1805-5p, cli-miR-181a-2-3p, cli-miR-181a-3p, cli-miR-181a-5p, cli-miR-181b-2-3p, cli-miR-181b-3p, cli-miR-181b-5p, cli-miR-182-3p, cli-miR-182-5p, cli-miR-183-3p, cli-miR-183-5p, cli-miR-184-3p, cli-miR-184-5p, cli-miR-187-3p, cli-miR-187-5p, cli-miR-18a-3p, cli-miR-18a-5p, cli-miR-18b-3p, cli-miR-18b-5p, cli-miR-190-3p, cli-miR-190-5p, cli-miR-193-3p, cli-miR-193-5p, cli-miR-194-3p, cli-miR-194-5p, cli-miR-196-3-3p, cli-miR-196-3p, cli-miR-196-5p, cli-miR-199-3p, cli-miR-199-5p, cli-miR-19a-3p, cli-miR-19a-5p, cli-miR-19b-2-5p, cli-miR-19b-3p, cli-miR-19b-5p, cli-miR-1a-2-5p, cli-miR-1a-3p, cli-miR-1a-5p, cli-miR-1b-3p, cli-miR-1b-5p, cli-miR-200a-3p, cli-miR-200a-5p, cli-miR-200b-3p, cli-miR-200b-5p, cli-miR-202-5p, cli-miR-204-2-3p, cli-miR-204-3-3p, cli-miR-204-3p, cli-miR-204-5p, cli-miR-205a-3p, cli-miR-205a-5p, cli-miR-205b-3p, cli-miR-205b-5p, cli-miR-206-3p, cli-miR-206-5p, cli-miR-20a-3p, cli-miR-20a-5p, cli-miR-20b-3p, cli-miR-20b-5p, cli-miR-21-3p, cli-miR-21-5p, cli-miR-210-3p, cli-miR-210-5p, cli-miR-2131-3p, cli-miR-2131-5p, cli-miR-214-3p, cli-miR-214-5p, cli-miR-215-3p, cli-miR-215-5p, cli-miR-216a-3p, cli-miR-216a-5p, cli-miR-216b-3p, cli-miR-216b-5p, cli-miR-217-3p, cli-miR-217-5p, cli-miR-218-3p, cli-miR-218-5p, cli-miR-2188-3p, cli-miR-2188-5p, cli-miR-22-3p, cli-miR-22-5p, cli-miR-221-3p, cli-miR-221-5p, cli-miR-222a-3p, cli-miR-222a-5p, cli-miR-222b-3p, cli-miR-223-3p, cli-miR-223-5p, cli-miR-23b-3p, cli-miR-23b-5p, cli-miR-26-2-3p, cli-miR-26-3p, cli-miR-26-5p, cli-miR-27b-3p, cli-miR-27b-5p, cli-miR-2954-3p, cli-miR-2954-5p, cli-miR-2970-3p, cli-miR-2970-5p, cli-miR-2984-5p, cli-miR-29a-3p, cli-miR-29a-5p, cli-miR-29b-3p, cli-miR-29b-5p, cli-miR-301a-3p, cli-miR-301a-5p, cli-miR-301b-3p, cli-miR-301b-5p, cli-miR-302a-3p, cli-miR-302b-3p, cli-miR-302c-3p, cli-miR-3064-3p, cli-miR-30a-3p, cli-miR-30a-5p, cli-miR-30c-2-3p, cli-miR-30c-3p, cli-miR-30c-5p, cli-miR-30d-3p, cli-miR-30d-5p, cli-miR-30e-3p, cli-miR-30e-5p, cli-miR-31-3p, cli-miR-31-5p, cli-miR-32-3p, cli-miR-32-5p, cli-miR-33-2-3p, cli-miR-33-3p, cli-miR-33-5p, cli-miR-338a-3p, cli-miR-338a-5p, cli-miR-338b-3p, cli-miR-338b-5p, cli-miR-34a-3p, cli-miR-34a-5p, cli-miR-34b-3p, cli-miR-34b-5p, cli-miR-34c-3p, cli-miR-34c-5p, cli-miR-3618-3p, cli-miR-3618-5p, cli-miR-363-3p, cli-miR-363-5p, cli-miR-365-2-5p, cli-miR-365-3p, cli-miR-365-5p, cli-miR-367-3p, cli-miR-375-3p, cli-miR-375-5p, cli-miR-383-3p, cli-miR-383-5p, cli-miR-425-3p, cli-miR-425-5p, cli-miR-429-3p, cli-miR-429-5p, cli-miR-449a-5p, cli-miR-449b-3p, cli-miR-449b-5p, cli-miR-449c-3p, cli-miR-449c-5p, cli-miR-449d-3p, cli-miR-449d-5p, cli-miR-451-5p, cli-miR-454-3p, cli-miR-454-5p, cli-miR-

455-3p, cli-miR-455-5p, cli-miR-456-3p, cli-miR-458-3p, cli-miR-458-5p, cli-miR-459-5p, cli-miR-460a-3p, cli-miR-460a-5p, cli-miR-460b-3p, cli-miR-460b-5p, cli-miR-489-3p, cli-miR-489-5p, cli-miR-490-3p, cli-miR-490-5p, cli-miR-499-3p, cli-miR-499-5p, cli-miR-551a-3p, cli-miR-551a-5p, cli-miR-551b-3p, cli-miR-551b-5p, cli-miR-599-3p, cli-miR-737-5p, cli-miR-7a-2-3p, cli-miR-7a-3-3p, cli-miR-7a-3p, cli-miR-7a-5p, cli-miR-7b-5p, cli-miR-875-3p, cli-miR-875-5p, cli-miR-8993-3p, cli-miR-8993-5p, cli-miR-9-3-3p, cli-miR-9-3p, cli-miR-9-5p, cli-miR-92-2-5p, cli-miR-92-3p, cli-miR-92-5p, cli-miR-96-3p, cli-miR-96-5p, cli-miR-9615-3p, cli-miR-9615-5p, cli-miR-9616-3p, cli-miR-9616-5p, cli-miR-9617-3p, cli-miR-9617-5p, cli-miR-9618-3p, cli-miR-9618-5p, cli-miR-9619-3p, cli-miR-9619-5p, cli-miR-9620-3p, cli-miR-9620-5p, cli-miR-9621-3p, cli-miR-9621-5p, cli-miR-9622-3p, cli-miR-9622-5p, cli-miR-9623-3p, cli-miR-9623-5p, cli-miR-9624-3p, cli-miR-9624-5p, cli-miR-9625-3p, cli-miR-9625-5p, cli-miR-9626-3p, cli-miR-9626-5p, cli-miR-9627-3p, cli-miR-9627-5p, cli-miR-9628-3p, cli-miR-9628-5p, cli-miR-9629-3p, cli-miR-9629-5p, cli-miR-9630-3p, cli-miR-9630-5p, cli-miR-9631-3p, cli-miR-9631-5p, cli-miR-9632-3p, cli-miR-9632-5p, cli-miR-9633-3p, cli-miR-9633-5p, cli-miR-9634-3p, cli-miR-9634-5p, cli-miR-9635-3p, cli-miR-9635-5p, cli-miR-9636-3p, cli-miR-9636-5p, cli-miR-9637-3p, cli-miR-9637-5p, cli-miR-9638-3p, cli-miR-9638-5p, cli-miR-9639-3p, cli-miR-9639-5p, cli-miR-9640-3p, cli-miR-9640-5p, cli-miR-9641-3p, cli-miR-9641-5p, cli-miR-9642-3p, cli-miR-9642-5p, cli-miR-9643-3p, cli-miR-9643-5p, cli-miR-9644-3p, cli-miR-9644-5p, cli-miR-9645-3p, cli-miR-9645-5p, cli-miR-9646-3p, cli-miR-9646-5p, cli-miR-9647-3p, cli-miR-9647-5p, cli-miR-9648-3p, cli-miR-9648-5p, cli-miR-9649-3p, cli-miR-9649-5p, cli-miR-99-3p, cli-miR-99-5p, cln-miR162, cln-miR164, cln-miR166, cln-miR6725, cme-miR156a, cme-miR156b, cme-miR156c, cme-miR156d, cme-miR156e, cme-miR156f, cme-miR156g, cme-miR156h, cme-miR156i, cme-miR156j, cme-miR159a, cme-miR159b, cme-miR160a, cme-miR160b, cme-miR160c, cme-miR160d, cme-miR162, cme-miR164a, cme-miR164b, cme-miR164c, cme-miR164d, cme-miR166a, cme-miR166b, cme-miR166c, cme-miR166d, cme-miR166e, cme-miR166f, cme-miR166g, cme-miR166h, cme-miR166i, cme-miR167a, cme-miR167b, cme-miR167c, cme-miR167d, cme-miR167e, cme-miR167f, cme-miR168, cme-miR169a, cme-miR169b, cme-miR169c, cme-miR169d, cme-miR169e, cme-miR169f, cme-miR169g, cme-miR169h, cme-miR169i, cme-miR169j, cme-miR169k, cme-miR169l, cme-miR169m, cme-miR169n, cme-miR169o, cme-miR169p, cme-miR169q, cme-miR169r, cme-miR169s, cme-miR169t, cme-miR171a, cme-miR171b, cme-miR171c, cme-miR171d, cme-miR171e, cme-miR171f, cme-miR171g, cme-miR171h, cme-miR171i, cme-miR172a, cme-miR172b, cme-miR172c, cme-miR172d, cme-miR172e, cme-miR172f, cme-

miR1863, cme-miR2111a, cme-miR2111b, cme-miR319a, cme-miR319b, cme-miR319c, cme-miR319d, cme-miR390a, cme-miR390b, cme-miR390c, cme-miR390d, cme-miR393a, cme-miR393b, cme-miR393c, cme-miR394a, cme-miR394b, cme-miR395a, cme-miR395b, cme-miR395c, cme-miR395d, cme-miR395e, cme-miR395f, cme-miR396a, cme-miR396b, cme-miR396c, cme-miR396d, cme-miR396e, cme-miR397, cme-miR398a, cme-miR398b, cme-miR399a, cme-miR399b, cme-miR399c, cme-miR399d, cme-miR399e, cme-miR399f, cme-miR399g, cme-miR408, cme-miR477a, cme-miR477b, cme-miR530a, cme-miR530b, cme-miR7129, cme-miR7130, cme-miR828, cme-miR845, cme-miR854, cme-miR858, cpa-miR156a, cpa-miR156b, cpa-miR156c, cpa-miR156d, cpa-miR156e, cpa-miR156f, cpa-miR159a, cpa-miR159b, cpa-miR160a, cpa-miR160b, cpa-miR160c-3p, cpa-miR160c-5p, cpa-miR160d, cpa-miR160e, cpa-miR160f-3p, cpa-miR160f-5p, cpa-miR162a, cpa-miR164a, cpa-miR164b, cpa-miR164c, cpa-miR164d, cpa-miR164e, cpa-miR166a, cpa-miR166b, cpa-miR166c, cpa-miR166d, cpa-miR166e, cpa-miR167a, cpa-miR167b, cpa-miR167c, cpa-miR167d, cpa-miR169, cpa-miR171a, cpa-miR171b, cpa-miR171c, cpa-miR171d, cpa-miR172a, cpa-miR172b, cpa-miR319, cpa-miR390a, cpa-miR390b, cpa-miR393, cpa-miR394a, cpa-miR394b, cpa-miR395a, cpa-miR395b, cpa-miR395c, cpa-miR395d, cpa-miR395e, cpa-miR396, cpa-miR398, cpa-miR408, cpa-miR477, cpa-miR5211, cpa-miR535, cpa-miR8134, cpa-miR8135, cpa-miR8136, cpa-miR8137, cpa-miR8138, cpa-miR8139a, cpa-miR8139b, cpa-miR8139c, cpa-miR8139d, cpa-miR8139e, cpa-miR8140, cpa-miR8141, cpa-miR8142, cpa-miR8143, cpa-miR8144, cpa-miR8145, cpa-miR8146, cpa-miR8147, cpa-miR8148, cpa-miR8149, cpa-miR8150, cpa-miR8151, cpa-miR8152, cpa-miR8153, cpa-miR8154, cpa-miR8155, cpi-let-7a-2-3p, cpi-let-7a-3p, cpi-let-7a-4-3p, cpi-let-7a-5p, cpi-let-7b-5p, cpi-let-7c-2-3p, cpi-let-7c-3p, cpi-let-7c-5p, cpi-let-7d-3p, cpi-let-7d-5p, cpi-let-7e-3p, cpi-let-7e-5p, cpi-let-7f-3p, cpi-let-7f-5p, cpi-let-7g-3p, cpi-let-7g-5p, cpi-let-7i-3p, cpi-let-7i-5p, cpi-miR-100-3p, cpi-miR-100-5p, cpi-miR-101-2-5p, cpi-miR-101-3p, cpi-miR-101-5p, cpi-miR-103-3p, cpi-miR-103-5p, cpi-miR-106a-5p, cpi-miR-106b-5p, cpi-miR-107-3p, cpi-miR-10a-3p, cpi-miR-10a-5p, cpi-miR-10b-3p, cpi-miR-10b-5p, cpi-miR-10c-3p, cpi-miR-10c-5p, cpi-miR-122-3p, cpi-miR-122-5p, cpi-miR-124-3p, cpi-miR-124-5p, cpi-miR-125a-3p, cpi-miR-125a-5p, cpi-miR-125b-2-3p, cpi-miR-125b-3p, cpi-miR-125b-5p, cpi-miR-126-3p, cpi-miR-126-5p, cpi-miR-128-2-5p, cpi-miR-128-3p, cpi-miR-128-5p, cpi-miR-129-2-3p, cpi-miR-129-3p, cpi-miR-129-5p, cpi-miR-1306-3p, cpi-miR-1306-5p, cpi-miR-130a-3p, cpi-miR-130a-5p, cpi-miR-130b-3p, cpi-miR-130b-5p, cpi-miR-130c-3p, cpi-miR-130c-5p, cpi-miR-130d-3p, cpi-miR-132-3p, cpi-miR-132-5p, cpi-miR-1329-5p, cpi-miR-133a-3p, cpi-miR-133a-5p, cpi-miR-133b-3p, cpi-miR-133c-3p, cpi-miR-135-2-3p, cpi-miR-

135-3-3p, cpi-miR-135-3p, cpi-miR-135-5p, cpi-miR-137a-3p, cpi-miR-137b-3p, cpi-miR-138-3p, cpi-miR-138-5p, cpi-miR-1388-3p, cpi-miR-1388-5p, cpi-miR-139-3p, cpi-miR-139-5p, cpi-miR-1397-5p, cpi-miR-140-3p, cpi-miR-140-5p, cpi-miR-1416-5p, cpi-miR-142-3p, cpi-miR-142-5p, cpi-miR-143-3p, cpi-miR-143-5p, cpi-miR-144-3p, cpi-miR-144-5p, cpi-miR-145-3p, cpi-miR-145-5p, cpi-miR-146a-3p, cpi-miR-146a-5p, cpi-miR-146b-3p, cpi-miR-146b-5p, cpi-miR-146c-3p, cpi-miR-146c-5p, cpi-miR-147-3p, cpi-miR-147-5p, cpi-miR-148a-3p, cpi-miR-148a-5p, cpi-miR-148b-3p, cpi-miR-152-3p, cpi-miR-152-5p, cpi-miR-153-3p, cpi-miR-153-5p, cpi-miR-155a-5p, cpi-miR-155b-5p, cpi-miR-15a-5p, cpi-miR-15b-3p, cpi-miR-15b-5p, cpi-miR-15c-3p, cpi-miR-15c-5p, cpi-miR-1641-5p, cpi-miR-1662-3p, cpi-miR-1662-5p, cpi-miR-1677a-3p, cpi-miR-1677a-5p, cpi-miR-1677b-3p, cpi-miR-1677b-5p, cpi-miR-1677c-3p, cpi-miR-1677c-5p, cpi-miR-1677d-3p, cpi-miR-1677d-5p, cpi-miR-1677e-3p, cpi-miR-1677e-5p, cpi-miR-1677f-3p, cpi-miR-1677g-3p, cpi-miR-1677h-3p, cpi-miR-1677h-5p, cpi-miR-16a-3p, cpi-miR-16a-5p, cpi-miR-16b-3p, cpi-miR-16b-5p, cpi-miR-16c-3p, cpi-miR-16c-5p, cpi-miR-17-3p, cpi-miR-17-5p, cpi-miR-1720-3p, cpi-miR-1729-3p, cpi-miR-1729-5p, cpi-miR-1784-3p, cpi-miR-1788-3p, cpi-miR-1788-5p, cpi-miR-1791-5p, cpi-miR-1805-3p, cpi-miR-1805-5p, cpi-miR-181a-2-3p, cpi-miR-181a-3-3p, cpi-miR-181a-3p, cpi-miR-181a-5p, cpi-miR-181b-1-3p, cpi-miR-181b-3p, cpi-miR-181b-5p, cpi-miR-182-3p, cpi-miR-182-5p, cpi-miR-183-5p, cpi-miR-184-3p, cpi-miR-187-3p, cpi-miR-187-5p, cpi-miR-18a-3p, cpi-miR-18a-5p, cpi-miR-18b-3p, cpi-miR-18b-5p, cpi-miR-190a-5p, cpi-miR-190b-5p, cpi-miR-191-5p, cpi-miR-192-3p, cpi-miR-192-5p, cpi-miR-193a-3p, cpi-miR-193a-5p, cpi-miR-193b-3p, cpi-miR-194-2-3p, cpi-miR-194-3p, cpi-miR-194-5p, cpi-miR-196-2-3p, cpi-miR-196-3p, cpi-miR-196-5p, cpi-miR-199-3p, cpi-miR-199-5p, cpi-miR-19a-3p, cpi-miR-19a-5p, cpi-miR-19b-2-5p, cpi-miR-19b-3p, cpi-miR-19b-5p, cpi-miR-1a-2-5p, cpi-miR-1a-3p, cpi-miR-1a-5p, cpi-miR-1b-3p, cpi-miR-1b-5p, cpi-miR-200a-3p, cpi-miR-200a-5p, cpi-miR-200b-3p, cpi-miR-200b-5p, cpi-miR-202-5p, cpi-miR-203-3p, cpi-miR-203-5p, cpi-miR-204-3-3p, cpi-miR-204-3p, cpi-miR-204-5p, cpi-miR-205a-3p, cpi-miR-205a-5p, cpi-miR-205b-5p, cpi-miR-206-3p, cpi-miR-206-5p, cpi-miR-208-5p, cpi-miR-20a-3p, cpi-miR-20a-5p, cpi-miR-20b-3p, cpi-miR-20b-5p, cpi-miR-21-3p, cpi-miR-21-5p, cpi-miR-210-3p, cpi-miR-210-5p, cpi-miR-212-5p, cpi-miR-214-3p, cpi-miR-214-5p, cpi-miR-215-3p, cpi-miR-215-5p, cpi-miR-216a-5p, cpi-miR-216b-5p, cpi-miR-217-5p, cpi-miR-218-3p, cpi-miR-218-5p, cpi-miR-2184-3p, cpi-miR-2184-5p, cpi-miR-2188-3p, cpi-miR-2188-5p, cpi-miR-219-3p, cpi-miR-219-5p, cpi-miR-22-3p, cpi-miR-22-5p, cpi-miR-221-3p, cpi-miR-221-5p, cpi-miR-222a-3p, cpi-miR-222a-5p, cpi-miR-222b-3p, cpi-miR-222b-5p, cpi-miR-223-3p, cpi-miR-223-5p, cpi-miR-23a-3p, cpi-miR-23b-3p,

cpi-miR-24-2-5p, cpi-miR-24-3p, cpi-miR-24-5p, cpi-miR-26-2-3p, cpi-miR-26-3-3p, cpi-miR-26-3p, cpi-miR-26-5p, cpi-miR-27a-3p, cpi-miR-27a-5p, cpi-miR-27b-3p, cpi-miR-27b-5p, cpi-miR-2970-3p, cpi-miR-2970-5p, cpi-miR-2984-3p, cpi-miR-29a-2-5p, cpi-miR-29a-3p, cpi-miR-29a-5p, cpi-miR-29b-2-5p, cpi-miR-29b-3p, cpi-miR-29b-5p, cpi-miR-301a-3p, cpi-miR-301b-3p, cpi-miR-302a-3p, cpi-miR-302b-3p, cpi-miR-302c-3p, cpi-miR-302d-3p, cpi-miR-3064-3p, cpi-miR-30a-3p, cpi-miR-30a-5p, cpi-miR-30b-3p, cpi-miR-30b-5p, cpi-miR-30c-2-3p, cpi-miR-30c-3p, cpi-miR-30c-5p, cpi-miR-30d-3p, cpi-miR-30d-5p, cpi-miR-30e-3p, cpi-miR-30e-5p, cpi-miR-31-3p, cpi-miR-31-5p, cpi-miR-32-3p, cpi-miR-32-5p, cpi-miR-33-2-3p, cpi-miR-33-3p, cpi-miR-33-5p, cpi-miR-338a-3p, cpi-miR-338a-5p, cpi-miR-338b-3p, cpi-miR-338b-5p, cpi-miR-34a-3p, cpi-miR-34a-5p, cpi-miR-34b-3p, cpi-miR-34b-5p, cpi-miR-34c-3p, cpi-miR-34c-5p, cpi-miR-3618-3p, cpi-miR-363-3p, cpi-miR-363-5p, cpi-miR-365-3p, cpi-miR-365-5p, cpi-miR-367-3p, cpi-miR-375-3p, cpi-miR-383-5p, cpi-miR-425-3p, cpi-miR-425-5p, cpi-miR-429-3p, cpi-miR-449a-3p, cpi-miR-449a-5p, cpi-miR-449b-5p, cpi-miR-449c-5p, cpi-miR-449d-5p, cpi-miR-451-3p, cpi-miR-451-5p, cpi-miR-454-3p, cpi-miR-454-5p, cpi-miR-455-3p, cpi-miR-455-5p, cpi-miR-456-3p, cpi-miR-458-3p, cpi-miR-458-5p, cpi-miR-459-3p, cpi-miR-459-5p, cpi-miR-460a-3p, cpi-miR-460a-5p, cpi-miR-460b-5p, cpi-miR-489-3p, cpi-miR-489-5p, cpi-miR-490-3p, cpi-miR-490-5p, cpi-miR-499-3p, cpi-miR-499-5p, cpi-miR-551-2-3p, cpi-miR-551-3p, cpi-miR-551-5p, cpi-miR-599-3p, cpi-miR-726-3p, cpi-miR-727-3p, cpi-miR-737-5p, cpi-miR-7a-2-3p, cpi-miR-7a-3-3p, cpi-miR-7a-3p, cpi-miR-7a-5p, cpi-miR-7b-5p, cpi-miR-875-5p, cpi-miR-9-3p, cpi-miR-9-4-3p, cpi-miR-9-5p, cpi-miR-92a-2-5p, cpi-miR-92a-3p, cpi-miR-92a-5p, cpi-miR-92b-3p, cpi-miR-92b-5p, cpi-miR-92c-3p, cpi-miR-92c-5p, cpi-miR-93-3p, cpi-miR-93-5p, cpi-miR-9578-3p, cpi-miR-9578-5p, cpi-miR-9579-3p, cpi-miR-9579-5p, cpi-miR-9580-3p, cpi-miR-9580-5p, cpi-miR-9581-3p, cpi-miR-9581-5p, cpi-miR-9582-3p, cpi-miR-9582-5p, cpi-miR-9583-3p, cpi-miR-9583-5p, cpi-miR-9584-3p, cpi-miR-9584-5p, cpi-miR-9585-3p, cpi-miR-9585-5p, cpi-miR-9586-3p, cpi-miR-9586-5p, cpi-miR-9587-3p, cpi-miR-9587-5p, cpi-miR-9588-3p, cpi-miR-9588-5p, cpi-miR-9589-3p, cpi-miR-9589-5p, cpi-miR-9590-3p, cpi-miR-9590-5p, cpi-miR-9591-3p, cpi-miR-9591-5p, cpi-miR-9592-3p, cpi-miR-9592-5p, cpi-miR-9593-3p, cpi-miR-9593-5p, cpi-miR-9594-3p, cpi-miR-9594-5p, cpi-miR-9595-3p, cpi-miR-9595-5p, cpi-miR-9596-3p, cpi-miR-9596-5p, cpi-miR-9597-3p, cpi-miR-9597-5p, cpi-miR-96-5p, cpi-miR-98-3p, cpi-miR-98-5p, cpi-miR-99a-3p, cpi-miR-99a-5p, cpi-miR-99b-3p, cpi-miR-99b-5p, cpo-let-7a-2-3p, cpo-let-7a-3p, cpo-let-7a-5p, cpo-let-7b-3p, cpo-let-7b-5p, cpo-let-7c-3p, cpo-let-7c-5p, cpo-let-7d-3p, cpo-let-7d-5p, cpo-let-7e-3p, cpo-let-7e-5p, cpo-let-7f-2-3p, cpo-let-7f-3p, cpo-let-7f-5p, cpo-let-7g-3p, cpo-let-7g-5p, cpo-let-7i-

3p, cpo-let-7i-5p, cpo-miR-100-3p, cpo-miR-100-5p, cpo-miR-101-2-5p, cpo-miR-101-3p, cpo-miR-101-5p, cpo-miR-103-2-5p, cpo-miR-103-3p, cpo-miR-103-5p, cpo-miR-105-3p, cpo-miR-105-5p, cpo-miR-106a-3p, cpo-miR-106a-5p, cpo-miR-106b-3p, cpo-miR-106b-5p, cpo-miR-107-3p, cpo-miR-107-5p, cpo-miR-10a-3p, cpo-miR-10a-5p, cpo-miR-10b-3p, cpo-miR-10b-5p, cpo-miR-1185-3p, cpo-miR-1185-5p, cpo-miR-1193-3p, cpo-miR-1193-5p, cpo-miR-1197-3p, cpo-miR-1197-5p, cpo-miR-12072-3p, cpo-miR-12072-5p, cpo-miR-12073-3p, cpo-miR-12073-5p, cpo-miR-12074-3p, cpo-miR-12074-5p, cpo-miR-12075-3p, cpo-miR-12075-5p, cpo-miR-12076-3p, cpo-miR-12076-5p, cpo-miR-12077-3p, cpo-miR-12077-5p, cpo-miR-12078-3p, cpo-miR-12078-5p, cpo-miR-12079-3p, cpo-miR-12079-5p, cpo-miR-12080-3p, cpo-miR-12080-5p, cpo-miR-12081-3p, cpo-miR-12081-5p, cpo-miR-12082-3p, cpo-miR-12082-5p, cpo-miR-12083-3p, cpo-miR-12083-5p, cpo-miR-12084-3p, cpo-miR-12084-5p, cpo-miR-122-3p, cpo-miR-122-5p, cpo-miR-124-3p, cpo-miR-124-5p, cpo-miR-1247-3p, cpo-miR-1247-5p, cpo-miR-1251-3p, cpo-miR-1251-5p, cpo-miR-125a-3p, cpo-miR-125a-5p, cpo-miR-125b-2-3p, cpo-miR-125b-3p, cpo-miR-125b-5p, cpo-miR-126-3p, cpo-miR-126-5p, cpo-miR-1264-3p, cpo-miR-1264-5p, cpo-miR-127-3p, cpo-miR-127-5p, cpo-miR-1271-3p, cpo-miR-1271-5p, cpo-miR-1277-3p, cpo-miR-1277-5p, cpo-miR-128-2-5p, cpo-miR-128-3p, cpo-miR-128-5p, cpo-miR-129-2-3p, cpo-miR-129-3p, cpo-miR-129-5p, cpo-miR-1296-3p, cpo-miR-1296-5p, cpo-miR-1298-3p, cpo-miR-1298-5p, cpo-miR-1301-3p, cpo-miR-1301-5p, cpo-miR-130a-3p, cpo-miR-130a-5p, cpo-miR-130b-3p, cpo-miR-130b-5p, cpo-miR-132-3p, cpo-miR-132-5p, cpo-miR-133a-3p, cpo-miR-133a-5p, cpo-miR-133b-3p, cpo-miR-133b-5p, cpo-miR-134-3p, cpo-miR-134-5p, cpo-miR-1343-3p, cpo-miR-1343-5p, cpo-miR-135a-2-3p, cpo-miR-135a-3p, cpo-miR-135a-5p, cpo-miR-135b-3p, cpo-miR-135b-5p, cpo-miR-136-3p, cpo-miR-136-5p, cpo-miR-1379-3p, cpo-miR-1379-5p, cpo-miR-138-2-3p, cpo-miR-138-3p, cpo-miR-138-5p, cpo-miR-1388-3p, cpo-miR-1388-5p, cpo-miR-139-3p, cpo-miR-139-5p, cpo-miR-140-3p, cpo-miR-140-5p, cpo-miR-141-3p, cpo-miR-141-5p, cpo-miR-142-3p, cpo-miR-142-5p, cpo-miR-143-3p, cpo-miR-143-5p, cpo-miR-144-3p, cpo-miR-144-5p, cpo-miR-145-3p, cpo-miR-145-5p, cpo-miR-146a-3p, cpo-miR-146a-5p, cpo-miR-146b-3p, cpo-miR-146b-5p, cpo-miR-147-3p, cpo-miR-147-5p, cpo-miR-148a-3p, cpo-miR-148a-5p, cpo-miR-148b-3p, cpo-miR-148b-5p, cpo-miR-149-3p, cpo-miR-149-5p, cpo-miR-150-3p, cpo-miR-150-5p, cpo-miR-151-3p, cpo-miR-151-5p, cpo-miR-152-3p, cpo-miR-152-5p, cpo-miR-153-3p, cpo-miR-153-5p, cpo-miR-154-3p, cpo-miR-154-5p, cpo-miR-155-3p, cpo-miR-155-5p, cpo-miR-15a-3p, cpo-miR-15a-5p, cpo-miR-15b-3p, cpo-miR-15b-5p, cpo-miR-16a-3p, cpo-miR-16a-5p, cpo-miR-16b-3p, cpo-miR-16b-5p, cpo-miR-17-3p, cpo-miR-17-5p, cpo-miR-181a-2-3p, cpo-

miR-181a-3p, cpo-miR-181a-5p, cpo-miR-181b-2-3p, cpo-miR-181b-3p, cpo-miR-181b-5p, cpo-miR-181c-3p, cpo-miR-181c-5p, cpo-miR-182-3p, cpo-miR-182-5p, cpo-miR-183-3p, cpo-miR-183-5p, cpo-miR-184-3p, cpo-miR-184-5p, cpo-miR-1842-3p, cpo-miR-1842-5p, cpo-miR-185-3p, cpo-miR-185-5p, cpo-miR-186-3p, cpo-miR-186-5p, cpo-miR-187-3p, cpo-miR-187-5p, cpo-miR-188-3p, cpo-miR-188-5p, cpo-miR-18a-3p, cpo-miR-18a-5p, cpo-miR-18b-3p, cpo-miR-18b-5p, cpo-miR-190a-3p, cpo-miR-190a-5p, cpo-miR-190b-3p, cpo-miR-190b-5p, cpo-miR-191-3p, cpo-miR-191-5p, cpo-miR-192-3p, cpo-miR-192-5p, cpo-miR-193a-3p, cpo-miR-193a-5p, cpo-miR-193b-3p, cpo-miR-193b-5p, cpo-miR-194-3p, cpo-miR-194-5p, cpo-miR-195-3p, cpo-miR-195-5p, cpo-miR-196a-3p, cpo-miR-196a-5p, cpo-miR-196b-3p, cpo-miR-196b-5p, cpo-miR-196c-3p, cpo-miR-196c-5p, cpo-miR-197-3p, cpo-miR-197-5p, cpo-miR-199-3-5p, cpo-miR-199-3p, cpo-miR-199-5p, cpo-miR-19a-3p, cpo-miR-19a-5p, cpo-miR-19b-2-5p, cpo-miR-19b-3p, cpo-miR-19b-5p, cpo-miR-1a-3p, cpo-miR-1a-5p, cpo-miR-1b-3p, cpo-miR-1b-5p, cpo-miR-200a-3p, cpo-miR-200a-5p, cpo-miR-200b-3p, cpo-miR-200b-5p, cpo-miR-200c-3p, cpo-miR-200c-5p, cpo-miR-202-3p, cpo-miR-202-5p, cpo-miR-203-3p, cpo-miR-203-5p, cpo-miR-204-3p, cpo-miR-204-5p, cpo-miR-205-3p, cpo-miR-205-5p, cpo-miR-206-3p, cpo-miR-206-5p, cpo-miR-208a-3p, cpo-miR-208a-5p, cpo-miR-208b-3p, cpo-miR-208b-5p, cpo-miR-20a-3p, cpo-miR-20a-5p, cpo-miR-20b-3p, cpo-miR-20b-5p, cpo-miR-21-3p, cpo-miR-21-5p, cpo-miR-210-3p, cpo-miR-210-5p, cpo-miR-211-3p, cpo-miR-211-5p, cpo-miR-212-3p, cpo-miR-212-5p, cpo-miR-214-3p, cpo-miR-214-5p, cpo-miR-215-3p, cpo-miR-215-5p, cpo-miR-216a-3p, cpo-miR-216a-5p, cpo-miR-216b-3p, cpo-miR-216b-5p, cpo-miR-217-3p, cpo-miR-217-5p, cpo-miR-218-2-3p, cpo-miR-218-3p, cpo-miR-218-5p, cpo-miR-219b-3p, cpo-miR-219b-5p, cpo-miR-22-3p, cpo-miR-22-5p, cpo-miR-221-3p, cpo-miR-221-5p, cpo-miR-222-3p, cpo-miR-222-5p, cpo-miR-223-3p, cpo-miR-223-5p, cpo-miR-224-3p, cpo-miR-224-5p, cpo-miR-2355-3p, cpo-miR-2355-5p, cpo-miR-2387-3p, cpo-miR-2387-5p, cpo-miR-23a-3p, cpo-miR-23a-5p, cpo-miR-23b-3p, cpo-miR-23b-5p, cpo-miR-24-2-5p, cpo-miR-24-3p, cpo-miR-24-5p, cpo-miR-25-3p, cpo-miR-25-5p, cpo-miR-26a-2-3p, cpo-miR-26a-3p, cpo-miR-26a-5p, cpo-miR-26b-3p, cpo-miR-26b-5p, cpo-miR-27a-3p, cpo-miR-27a-5p, cpo-miR-27b-3p, cpo-miR-27b-5p, cpo-miR-28-3p, cpo-miR-28-5p, cpo-miR-290-3p, cpo-miR-290-5p, cpo-miR-296-3p, cpo-miR-296-5p, cpo-miR-299-3p, cpo-miR-299-5p, cpo-miR-29a-3p, cpo-miR-29a-5p, cpo-miR-29b-2-5p, cpo-miR-29b-3p, cpo-miR-29b-5p, cpo-miR-29c-3p, cpo-miR-29c-5p, cpo-miR-301a-3p, cpo-miR-301a-5p, cpo-miR-301b-3p, cpo-miR-301b-5p, cpo-miR-302a-3p, cpo-miR-302a-5p, cpo-miR-302b-3p, cpo-miR-302b-5p, cpo-miR-302c-3p, cpo-miR-302c-5p, cpo-miR-302d-3p, cpo-miR-302d-5p, cpo-miR-3059-3p, cpo-miR-

3059-5p, cpo-miR-3085-3p, cpo-miR-3085-5p, cpo-miR-30a-3p, cpo-miR-30a-5p, cpo-miR-30b-3p, cpo-miR-30b-5p, cpo-miR-30c-2-3p, cpo-miR-30c-3p, cpo-miR-30c-5p, cpo-miR-30d-3p, cpo-miR-30d-5p, cpo-miR-30e-3p, cpo-miR-30e-5p, cpo-miR-31-3p, cpo-miR-31-5p, cpo-miR-32-3p, cpo-miR-32-5p, cpo-miR-323a-3p, cpo-miR-323a-5p, cpo-miR-323b-3p, cpo-miR-323b-5p, cpo-miR-324-3p, cpo-miR-324-5p, cpo-miR-326-3p, cpo-miR-326-5p, cpo-miR-328-3p, cpo-miR-328-5p, cpo-miR-329-3p, cpo-miR-329-5p, cpo-miR-330-3p, cpo-miR-330-5p, cpo-miR-331-3p, cpo-miR-331-5p, cpo-miR-335-3p, cpo-miR-335-5p, cpo-miR-337-3p, cpo-miR-337-5p, cpo-miR-338-3p, cpo-miR-338-5p, cpo-miR-339-3p, cpo-miR-339-5p, cpo-miR-33a-3p, cpo-miR-33a-5p, cpo-miR-33b-3p, cpo-miR-33b-5p, cpo-miR-340-3p, cpo-miR-340-5p, cpo-miR-342-3p, cpo-miR-342-5p, cpo-miR-345-3p, cpo-miR-345-5p, cpo-miR-346-3p, cpo-miR-346-5p, cpo-miR-34a-3p, cpo-miR-34a-5p, cpo-miR-34b-3p, cpo-miR-34b-5p, cpo-miR-34c-3p, cpo-miR-34c-5p, cpo-miR-350-3p, cpo-miR-350-5p, cpo-miR-361-3p, cpo-miR-361-5p, cpo-miR-3613-3p, cpo-miR-3613-5p, cpo-miR-362-3p, cpo-miR-362-5p, cpo-miR-363-3p, cpo-miR-363-5p, cpo-miR-365-2-5p, cpo-miR-365-3p, cpo-miR-365-5p, cpo-miR-367-3p, cpo-miR-367-5p, cpo-miR-369-3p, cpo-miR-369-5p, cpo-miR-370-3p, cpo-miR-370-5p, cpo-miR-374-3p, cpo-miR-374-5p, cpo-miR-375-3p, cpo-miR-375-5p, cpo-miR-376a-3p, cpo-miR-376a-5p, cpo-miR-376b-3p, cpo-miR-376b-5p, cpo-miR-376c-3p, cpo-miR-376c-5p, cpo-miR-376d-3p, cpo-miR-376d-5p, cpo-miR-377-3p, cpo-miR-377-5p, cpo-miR-378-3p, cpo-miR-378-5p, cpo-miR-379-3p, cpo-miR-379-5p, cpo-miR-380-3p, cpo-miR-380-5p, cpo-miR-381-3p, cpo-miR-381-5p, cpo-miR-382-3p, cpo-miR-382-5p, cpo-miR-383-3p, cpo-miR-383-5p, cpo-miR-3959-3p, cpo-miR-3959-5p, cpo-miR-409-3p, cpo-miR-409-5p, cpo-miR-410-3p, cpo-miR-410-5p, cpo-miR-411-3p, cpo-miR-411-5p, cpo-miR-412-3p, cpo-miR-412-5p, cpo-miR-423-3p, cpo-miR-423-5p, cpo-miR-424-3p, cpo-miR-424-5p, cpo-miR-425-3p, cpo-miR-425-5p, cpo-miR-429-3p, cpo-miR-429-5p, cpo-miR-431-3p, cpo-miR-431-5p, cpo-miR-432-3p, cpo-miR-432-5p, cpo-miR-433-3p, cpo-miR-433-5p, cpo-miR-448-3p, cpo-miR-448-5p, cpo-miR-449a-3p, cpo-miR-449a-5p, cpo-miR-449c-3p, cpo-miR-449c-5p, cpo-miR-450a-2-3p, cpo-miR-450a-3p, cpo-miR-450a-5p, cpo-miR-450b-3p, cpo-miR-450b-5p, cpo-miR-451-5p, cpo-miR-452-3p, cpo-miR-452-5p, cpo-miR-454-3p, cpo-miR-454-5p, cpo-miR-455-3p, cpo-miR-455-5p, cpo-miR-483-3p, cpo-miR-483-5p, cpo-miR-485-3p, cpo-miR-485-5p, cpo-miR-486-3p, cpo-miR-486-5p, cpo-miR-487a-3p, cpo-miR-487a-5p, cpo-miR-487b-3p, cpo-miR-487b-5p, cpo-miR-490-3p, cpo-miR-490-5p, cpo-miR-491-3p, cpo-miR-491-5p, cpo-miR-493-3p, cpo-miR-493-5p, cpo-miR-494-3p, cpo-miR-494-5p, cpo-miR-495-3p, cpo-miR-495-5p, cpo-miR-496-3p, cpo-miR-496-5p, cpo-miR-497-3p, cpo-miR-497-5p, cpo-

miR-499-3p, cpo-miR-499-5p, cpo-miR-500a-3p, cpo-miR-500a-5p, cpo-miR-500b-3p, cpo-miR-500b-5p, cpo-miR-501-3p, cpo-miR-501-5p, cpo-miR-502a-3p, cpo-miR-502a-5p, cpo-miR-503-3p, cpo-miR-503-5p, cpo-miR-504-3p, cpo-miR-504-5p, cpo-miR-505-3p, cpo-miR-505-5p, cpo-miR-506-3p, cpo-miR-506-5p, cpo-miR-507a-3p, cpo-miR-507a-5p, cpo-miR-507b-3p, cpo-miR-507b-5p, cpo-miR-507c-3p, cpo-miR-507c-5p, cpo-miR-509a-3p, cpo-miR-509a-5p, cpo-miR-509b-3p, cpo-miR-509b-5p, cpo-miR-509c-3p, cpo-miR-509c-5p, cpo-miR-509d-3p, cpo-miR-509d-5p, cpo-miR-509e-3p, cpo-miR-509e-5p, cpo-miR-509f-3p, cpo-miR-509f-5p, cpo-miR-511-3p, cpo-miR-511-5p, cpo-miR-513-3p, cpo-miR-513-5p, cpo-miR-526-3p, cpo-miR-526-5p, cpo-miR-532-3p, cpo-miR-532-5p, cpo-miR-539-3p, cpo-miR-539-5p, cpo-miR-541-3p, cpo-miR-541-5p, cpo-miR-542-3p, cpo-miR-542-5p, cpo-miR-543-3p, cpo-miR-543-5p, cpo-miR-545-3p, cpo-miR-545-5p, cpo-miR-551-3p, cpo-miR-551-5p, cpo-miR-574-3p, cpo-miR-574-5p, cpo-miR-582-3p, cpo-miR-582-5p, cpo-miR-615-3p, cpo-miR-615-5p, cpo-miR-652-3p, cpo-miR-652-5p, cpo-miR-6529-3p, cpo-miR-6529-5p, cpo-miR-653-3p, cpo-miR-653-5p, cpo-miR-654-3p, cpo-miR-654-5p, cpo-miR-655-3p, cpo-miR-655-5p, cpo-miR-656-3p, cpo-miR-656-5p, cpo-miR-660-3p, cpo-miR-660-5p, cpo-miR-670-3p, cpo-miR-670-5p, cpo-miR-671-3p, cpo-miR-671-5p, cpo-miR-672-3p, cpo-miR-672-5p, cpo-miR-675-3p, cpo-miR-675-5p, cpo-miR-676-3p, cpo-miR-676-5p, cpo-miR-7-2-3p, cpo-miR-7-3-3p, cpo-miR-7-3p, cpo-miR-7-5p, cpo-miR-708-3p, cpo-miR-708-5p, cpo-miR-744-3p, cpo-miR-744-5p, cpo-miR-758-3p, cpo-miR-758-5p, cpo-miR-760-3p, cpo-miR-760-5p, cpo-miR-769-3p, cpo-miR-769-5p, cpo-miR-802-3p, cpo-miR-802-5p, cpo-miR-872-3p, cpo-miR-872-5p, cpo-miR-873-3p, cpo-miR-873-5p, cpo-miR-874-3p, cpo-miR-874-5p, cpo-miR-885-3p, cpo-miR-885-5p, cpo-miR-889-3p, cpo-miR-889-5p, cpo-miR-892-3p, cpo-miR-892-5p, cpo-miR-9-3p, cpo-miR-9-5p, cpo-miR-92a-2-5p, cpo-miR-92a-3p, cpo-miR-92a-5p, cpo-miR-92b-3p, cpo-miR-92b-5p, cpo-miR-93-3p, cpo-miR-93-5p, cpo-miR-95-3p, cpo-miR-95-5p, cpo-miR-96-3p, cpo-miR-96-5p, cpo-miR-98-3p, cpo-miR-98-5p, cpo-miR-99a-3p, cpo-miR-99a-5p, cpo-miR-99b-3p, cpo-miR-99b-5p, cqu-bantam-3p, cqu-bantam-5p, cqu-let-7-3p, cqu-let-7-5p, cqu-miR-1, cqu-miR-10-3p, cqu-miR-10-5p, cqu-miR-100-3p, cqu-miR-100-5p, cqu-miR-1000, cqu-miR-11-3p, cqu-miR-11-5p, cqu-miR-1174, cqu-miR-1175-3p, cqu-miR-1175-5p, cqu-miR-12-3p, cqu-miR-12-5p, cqu-miR-124, cqu-miR-125-3p, cqu-miR-125-5p, cqu-miR-13, cqu-miR-133, cqu-miR-137, cqu-miR-14, cqu-miR-184, cqu-miR-1889-3p, cqu-miR-1889-5p, cqu-miR-1890, cqu-miR-1891, cqu-miR-190, cqu-miR-2, cqu-miR-210-3p, cqu-miR-210-5p, cqu-miR-252-3p, cqu-miR-252-5p, cqu-miR-263, cqu-miR-275, cqu-miR-276-3p, cqu-miR-276-5p, cqu-miR-277, cqu-miR-278, cqu-miR-279-3p, cqu-miR-279-5p, cqu-miR-

281-3p, cqu-miR-281-5p, cqu-miR-283, cqu-miR-285-3p, cqu-miR-285-5p, cqu-miR-2941-1-5p, cqu-miR-2941-2-5p, cqu-miR-2941-3p, cqu-miR-2951-3p, cqu-miR-2951-5p, cqu-miR-2952, cqu-miR-305-3p, cqu-miR-305-5p, cqu-miR-306, cqu-miR-308, cqu-miR-309, cqu-miR-31-3p, cqu-miR-31-5p, cqu-miR-315, cqu-miR-316, cqu-miR-317-3p, cqu-miR-317-5p, cqu-miR-33, cqu-miR-375, cqu-miR-7, cqu-miR-71-3p, cqu-miR-71-5p, cqu-miR-79, cqu-miR-8-3p, cqu-miR-8-5p, cqu-miR-87, cqu-miR-9-3p, cqu-miR-9-5p, cqu-miR-92, cqu-miR-932-3p, cqu-miR-932-5p, cqu-miR-957, cqu-miR-965, cqu-miR-970, cqu-miR-980, cqu-miR-981, cqu-miR-988-3p, cqu-miR-988-5p, cqu-miR-989, cqu-miR-993-3p, cqu-miR-993-5p, cqu-miR-996, cqu-miR-998, cqu-miR-999, cqu-miR-iab-4, cre-miR1142, cre-miR1143-3p, cre-miR1143-5p, cre-miR1144a.1, cre-miR1144a.2, cre-miR1144b, cre-miR1145.1, cre-miR1145.2, cre-miR1146, cre-miR1147.1, cre-miR1147.2, cre-miR1148.1, cre-miR1148.2, cre-miR1149.1, cre-miR1149.2, cre-miR1150.1, cre-miR1150.2, cre-miR1150.3, cre-miR1151a-3p, cre-miR1151a-5p, cre-miR1151b-3p, cre-miR1151b-5p, cre-miR1152, cre-miR1153-3p.1, cre-miR1153-3p.2, cre-miR1153-5p.1, cre-miR1153-5p.2, cre-miR1154-3p, cre-miR1154-5p, cre-miR1155, cre-miR1156.1, cre-miR1156.2, cre-miR1157-3p, cre-miR1157-5p, cre-miR1158, cre-miR1159.1, cre-miR1159.2, cre-miR1160.1, cre-miR1160.2, cre-miR1160.3, cre-miR1161a, cre-miR1161b, cre-miR1162-3p, cre-miR1162-5p, cre-miR1163.1, cre-miR1163.2, cre-miR1164, cre-miR1165-3p, cre-miR1165-5p, cre-miR1166.1, cre-miR1166.2, cre-miR1167, cre-miR1168.1, cre-miR1168.2, cre-miR1169-3p, cre-miR1169-5p, cre-miR1170.1, cre-miR1170.2, cre-miR1171, cre-miR1172.1, cre-miR1172.2, cre-miR1173, cre-miR905-3p, cre-miR905-5p, cre-miR906-3p, cre-miR906-5p, cre-miR907, cre-miR908.1, cre-miR908.2, cre-miR908.3, cre-miR909.1, cre-miR909.2, cre-miR909.3, cre-miR910, cre-miR911, cre-miR912, cre-miR913-3p, cre-miR913-5p, cre-miR914, cre-miR915, cre-miR917, cre-miR918, cre-miR919.1, cre-miR919.2, cre-miR9897-3p, cre-miR9897-5p, crm-let-7, crm-lin-4-3p, crm-lin-4-5p, crm-miR-1-3p, crm-miR-1-5p, crm-miR-124a, crm-miR-124b, crm-miR-1817b, crm-miR-1822, crm-miR-1824, crm-miR-2-3p, crm-miR-2-5p, crm-miR-2225, crm-miR-2227, crm-miR-2228, crm-miR-2229, crm-miR-2229a, crm-miR-2229b, crm-miR-2230-3p, crm-miR-2230-5p, crm-miR-2231-3p, crm-miR-2231-5p, crm-miR-2254, crm-miR-228, crm-miR-230-3p, crm-miR-230-5p, crm-miR-231, crm-miR-232, crm-miR-233, crm-miR-234, crm-miR-235-3p, crm-miR-235-5p, crm-miR-236, crm-miR-237-3p, crm-miR-237-5p, crm-miR-238, crm-miR-239a-3p, crm-miR-239a-5p, crm-miR-239b, crm-miR-240, crm-miR-241, crm-miR-242, crm-miR-244-3p, crm-miR-244-5p, crm-miR-245, crm-miR-246-3p, crm-miR-246-5p, crm-miR-247, crm-miR-248, crm-miR-249, crm-miR-250-3p, crm-miR-250-5p, crm-miR-251, crm-miR-252, crm-miR-253,

crm-miR-254, crm-miR-255, crm-miR-259, crm-miR-34, crm-miR-355, crm-miR-356, crm-miR-357, crm-miR-358, crm-miR-359, crm-miR-35a, crm-miR-35b, crm-miR-35c-3p, crm-miR-35c-5p, crm-miR-35d, crm-miR-35e, crm-miR-35f, crm-miR-35g, crm-miR-35h, crm-miR-35i, crm-miR-36, crm-miR-360, crm-miR-38, crm-miR-39, crm-miR-392, crm-miR-40, crm-miR-41, crm-miR-42, crm-miR-43, crm-miR-44-3p, crm-miR-44-5p, crm-miR-45-3p, crm-miR-45-5p, crm-miR-46-3p, crm-miR-46-5p, crm-miR-47, crm-miR-48-3p, crm-miR-48-5p, crm-miR-49, crm-miR-50-3p, crm-miR-50-5p, crm-miR-51, crm-miR-52-3p, crm-miR-52-5p, crm-miR-54, crm-miR-55-3p, crm-miR-55-5p, crm-miR-56, crm-miR-57, crm-miR-58a, crm-miR-58b-3p, crm-miR-58b-5p, crm-miR-58c, crm-miR-58d, crm-miR-59, crm-miR-60-3p, crm-miR-60-5p, crm-miR-61, crm-miR-62, crm-miR-63-3p, crm-miR-63-5p, crm-miR-64a-3p, crm-miR-64a-5p, crm-miR-64b-3p, crm-miR-64b-5p, crm-miR-64c-3p, crm-miR-64c-5p, crm-miR-64d-3p, crm-miR-64d-5p, crm-miR-64e, crm-miR-66-3p, crm-miR-66-5p, crm-miR-67-3p, crm-miR-67-5p, crm-miR-70, crm-miR-71-3p, crm-miR-71-5p, crm-miR-72-3p, crm-miR-72-5p, crm-miR-73, crm-miR-74a, crm-miR-74b, crm-miR-75, crm-miR-7579, crm-miR-7582, crm-miR-7594, crm-miR-7597, crm-miR-7598, crm-miR-7599, crm-miR-76, crm-miR-7600, crm-miR-7601, crm-miR-7602, crm-miR-7603, crm-miR-7604, crm-miR-7605, crm-miR-7606, crm-miR-7607, crm-miR-7608, crm-miR-7609, crm-miR-7610, crm-miR-7611, crm-miR-7612, crm-miR-7613, crm-miR-77, crm-miR-784-3p, crm-miR-784-5p, crm-miR-785, crm-miR-786, crm-miR-787, crm-miR-788, crm-miR-79-3p, crm-miR-79-5p, crm-miR-790, crm-miR-80-3p, crm-miR-80-5p, crm-miR-81-3p, crm-miR-81-5p, crm-miR-82, crm-miR-83, crm-miR-84-3p, crm-miR-84-5p, crm-miR-85, crm-miR-86-3p, crm-miR-86-5p, crm-miR-87-3p, crm-miR-87-5p, crm-miR-90, crt-miR166a, crt-miR166b, crt-miR168, crt-miR171, csa-let-7a, csa-let-7b, csa-let-7c, csa-let-7d, csa-miR-124, csa-miR-126, csa-miR-133, csa-miR-141, csa-miR-1473, csa-miR-1497, csa-miR-153, csa-miR-155, csa-miR-183, csa-miR-200, csa-miR-216a, csa-miR-216b, csa-miR-217, csa-miR-219, csa-miR-281, csa-miR-31, csa-miR-34, csa-miR-7, csa-miR-92a, csa-miR-92b, csa-miR-92c, csi-miR12105-3p, csi-miR12105-5p, csi-miR12106-3p, csi-miR12106-5p, csi-miR12107-3p, csi-miR12107-5p, csi-miR12108-3p, csi-miR12108-5p, csi-miR12109-3p, csi-miR12109-5p, csi-miR12110-3p, csi-miR12110-5p, csi-miR12111-3p, csi-miR12111-5p, csi-miR1515a, csi-miR1515b-3p, csi-miR1515b-5p, csi-miR156a-3p, csi-miR156a-5p, csi-miR156b-3p, csi-miR156b-5p, csi-miR156c-3p, csi-miR156c-5p, csi-miR156d-5p, csi-miR156e-3p, csi-miR156e-5p, csi-miR156f-3p, csi-miR156f-5p, csi-miR156g-3p, csi-miR156g-5p, csi-miR156h-5p, csi-miR156i-5p, csi-miR156j-3p, csi-miR156j-5p, csi-miR159a-3p, csi-miR159a-5p, csi-miR159b-5p, csi-miR159c-3p, csi-miR159c-5p, csi-

miR159d, csi-miR160a-3p, csi-miR160a-5p, csi-miR160b-3p, csi-miR160b-5p, csi-miR160c-3p, csi-miR160c-5p, csi-miR162-3p, csi-miR162-5p, csi-miR164a-3p, csi-miR164a-5p, csi-miR164b-3p, csi-miR164b-5p, csi-miR164c-3p, csi-miR164c-5p, csi-miR164d-3p, csi-miR164d-5p, csi-miR166a-3p, csi-miR166a-5p, csi-miR166b-3p, csi-miR166b-5p, csi-miR166c-3p, csi-miR166c-5p, csi-miR166d-3p, csi-miR166d-5p, csi-miR166e-3p, csi-miR166e-5p, csi-miR166f-3p, csi-miR166f-5p, csi-miR166g-3p, csi-miR166g-5p, csi-miR166h-3p, csi-miR166i-3p, csi-miR166j-3p, csi-miR166k-3p, csi-miR167a-3p, csi-miR167a-5p, csi-miR167b-3p, csi-miR167b-5p, csi-miR167c-3p, csi-miR167c-5p, csi-miR167d-3p, csi-miR167d-5p, csi-miR167e-3p, csi-miR167e-5p, csi-miR168-3p, csi-miR168-5p, csi-miR169a, csi-miR169b-5p, csi-miR169c-3p, csi-miR169c-5p, csi-miR169d-3p, csi-miR169d-5p, csi-miR169e-3p, csi-miR169e-5p, csi-miR169f-5p, csi-miR169g-5p, csi-miR169h-5p, csi-miR169i-5p, csi-miR169j-5p, csi-miR169k-5p, csi-miR169l-3p, csi-miR169l-5p, csi-miR169m-5p, csi-miR169n-3p, csi-miR169n-5p, csi-miR169o-5p, csi-miR169p-5p, csi-miR169q-5p, csi-miR169r-5p, csi-miR171a, csi-miR171b-3p, csi-miR171b-5p, csi-miR171c-3p, csi-miR171c-5p, csi-miR171d-3p, csi-miR171e-3p, csi-miR171f-3p, csi-miR171f-5p, csi-miR171g-3p, csi-miR171h-3p, csi-miR171i-3p, csi-miR172a-3p, csi-miR172a-5p, csi-miR172b-3p, csi-miR172b-5p, csi-miR172c-3p, csi-miR172c-5p, csi-miR172d-5p, csi-miR2111-5p, csi-miR2275a-3p, csi-miR2275a-5p, csi-miR2275b-3p, csi-miR2275b-5p, csi-miR3627a-5p, csi-miR3627b-3p, csi-miR3627c-5p, csi-miR390a-3p, csi-miR390a-5p, csi-miR390b-5p, csi-miR391-3p, csi-miR391-5p, csi-miR393a, csi-miR393b-3p, csi-miR393b-5p, csi-miR393c-3p, csi-miR393c-5p, csi-miR3946, csi-miR3947-5p, csi-miR3948, csi-miR3949, csi-miR394a, csi-miR394b-5p, csi-miR3950, csi-miR3951a-3p, csi-miR3951a-5p, csi-miR3951b-3p, csi-miR3951b-5p, csi-miR3952-3p, csi-miR3952-5p, csi-miR3952b-3p, csi-miR3952b-5p, csi-miR3953, csi-miR3954, csi-miR3954b-3p, csi-miR3954b-5p, csi-miR395a, csi-miR395b-3p, csi-miR395b-5p, csi-miR395c-3p, csi-miR396a-3p, csi-miR396a-5p, csi-miR396b-3p, csi-miR396b-5p, csi-miR396c, csi-miR396d-3p, csi-miR396e-3p, csi-miR396e-5p, csi-miR396f-3p, csi-miR396f-5p, csi-miR397-3p, csi-miR397-5p, csi-miR398a-3p, csi-miR398a-5p, csi-miR398b-3p, csi-miR399a-3p, csi-miR399a-5p, csi-miR399b-3p, csi-miR399b-5p, csi-miR399c-3p, csi-miR399c-5p, csi-miR399d-3p, csi-miR399d-5p, csi-miR399e-3p, csi-miR399e-5p, csi-miR399f-3p, csi-miR399f-5p, csi-miR403a-3p, csi-miR403a-5p, csi-miR403b-3p, csi-miR403b-5p, csi-miR408-3p, csi-miR408-5p, csi-miR477a-3p, csi-miR477a-5p, csi-miR477b-3p, csi-miR477b-5p, csi-miR477c-3p, csi-miR477c-5p, csi-miR477d-3p, csi-miR477d-5p, csi-miR477e-3p, csi-miR477e-5p, csi-miR482a-3p, csi-miR482a-5p, csi-miR482b-3p, csi-

miR482b-5p, csi-miR482c-3p, csi-miR482c-5p, csi-miR482d-3p, csi-miR482d-5p, csi-miR482e-3p, csi-miR482e-5p, csi-miR482f-3p, csi-miR482f-5p, csi-miR482g-3p, csi-miR482g-5p, csi-miR530a-3p, csi-miR530a-5p, csi-miR530b-3p, csi-miR530b-5p, csi-miR535a, csi-miR535b-3p, csi-miR535b-5p, csi-miR535c-3p, csi-miR535c-5p, csi-miR535d-3p, csi-miR535d-5p, csi-miR535e-5p, csi-miR535f-5p, csi-miR536-3p, csi-miR536-5p, csi-miR827, csi-miR857, csi-miR858-3p, csi-miR9560-3p, csi-miR9560-5p, cst-miR11331, cst-miR11332, cst-miR11333, cst-miR11334, cst-miR11335, cte-bantam, cte-let-7, cte-miR-1, cte-miR-100, cte-miR-10a, cte-miR-10b, cte-miR-10c, cte-miR-10d, cte-miR-1175-3p, cte-miR-1175-5p, cte-miR-12, cte-miR-124, cte-miR-125, cte-miR-133, cte-miR-137, cte-miR-153, cte-miR-184a, cte-miR-184b, cte-miR-190, cte-miR-193, cte-miR-1987, cte-miR-1989, cte-miR-1990a, cte-miR-1990b, cte-miR-1990c-3p, cte-miR-1991, cte-miR-1992, cte-miR-1993, cte-miR-1994, cte-miR-1995, cte-miR-1996a, cte-miR-1996b, cte-miR-1997, cte-miR-1998, cte-miR-1999, cte-miR-2000, cte-miR-2001, cte-miR-210a, cte-miR-210b, cte-miR-216a, cte-miR-216b, cte-miR-216c, cte-miR-219, cte-miR-242, cte-miR-252a, cte-miR-252b, cte-miR-263, cte-miR-2685-3p, cte-miR-2685-5p, cte-miR-2686a-3p, cte-miR-2686a-5p, cte-miR-2686b, cte-miR-2686c, cte-miR-2687, cte-miR-2688-3p, cte-miR-2688-5p, cte-miR-2689, cte-miR-2690, cte-miR-2691-3p, cte-miR-2691-5p, cte-miR-2692, cte-miR-2693, cte-miR-2694, cte-miR-2695, cte-miR-2696, cte-miR-2697, cte-miR-2698, cte-miR-2699-3p, cte-miR-2699-5p, cte-miR-2700, cte-miR-2701, cte-miR-2702-3p, cte-miR-2702-5p, cte-miR-2703-3p, cte-miR-2703-5p, cte-miR-2704, cte-miR-2705, cte-miR-2706, cte-miR-2707, cte-miR-2708, cte-miR-2709, cte-miR-2710, cte-miR-2711, cte-miR-2712, cte-miR-2713, cte-miR-2714, cte-miR-2715, cte-miR-2716, cte-miR-2717, cte-miR-2718, cte-miR-2719, cte-miR-2720-3p, cte-miR-2720-5p, cte-miR-2721, cte-miR-277a, cte-miR-277b, cte-miR-278, cte-miR-279, cte-miR-281, cte-miR-29a, cte-miR-29b, cte-miR-2a, cte-miR-2b, cte-miR-2c, cte-miR-2d, cte-miR-2e, cte-miR-2f, cte-miR-2g, cte-miR-31, cte-miR-315, cte-miR-317, cte-miR-33, cte-miR-34, cte-miR-36, cte-miR-365, cte-miR-375, cte-miR-67, cte-miR-7, cte-miR-71, cte-miR-745a, cte-miR-745b, cte-miR-750, cte-miR-8, cte-miR-87a, cte-miR-87b, cte-miR-9-3p, cte-miR-9-5p, cte-miR-92a, cte-miR-92b, cte-miR-92c, cte-miR-96, cte-miR-981, cte-miR-993, cte-miR-996, ctr-miR156, ctr-miR164, ctr-miR166, ctr-miR167, ctr-miR171, ctr-miR319, dan-bantam, dan-let-7, dan-miR-1, dan-miR-10, dan-miR-100, dan-miR-11, dan-miR-12, dan-miR-124, dan-miR-125, dan-miR-133, dan-miR-13a, dan-miR-13b, dan-miR-14, dan-miR-184-3p, dan-miR-184-5p, dan-miR-210, dan-miR-219, dan-miR-263a, dan-miR-263b, dan-miR-274, dan-miR-275, dan-miR-276a, dan-miR-276b, dan-miR-277, dan-miR-278, dan-miR-279, dan-miR-280, dan-miR-281-1-5p, dan-miR-281-2-5p, dan-

miR-281-3p, dan-miR-282, dan-miR-283, dan-miR-284, dan-miR-285, dan-miR-286, dan-miR-287, dan-miR-288, dan-miR-289, dan-miR-2a, dan-miR-2b, dan-miR-2c, dan-miR-3, dan-miR-304, dan-miR-305, dan-miR-306, dan-miR-307, dan-miR-308, dan-miR-309, dan-miR-310, dan-miR-311a, dan-miR-311b, dan-miR-312, dan-miR-314, dan-miR-315, dan-miR-316, dan-miR-317, dan-miR-318, dan-miR-31a, dan-miR-31b, dan-miR-33, dan-miR-34, dan-miR-4, dan-miR-5, dan-miR-6, dan-miR-7, dan-miR-79, dan-miR-8, dan-miR-87, dan-miR-92a, dan-miR-92b, dan-miR-9a, dan-miR-9b, dan-miR-9c, dan-miR-iab-4-3p, dan-miR-iab-4-5p, ddi-miR-1176, ddi-miR-1177, ddi-miR-7095-3p, ddi-miR-7095-5p, ddi-miR-7096, ddi-miR-7097, ddi-miR-7098, ddi-miR-7099, ddi-miR-7100, ddi-miR-7101, ddi-miR-7102, ddi-miR-7103, ddi-miR-7104, ddi-miR-7105, ddi-miR-7131a-3p, ddi-miR-7131a-5p, ddi-miR-7131b, ddi-miR-7131c-3p, ddi-miR-7131c-5p, ddi-miR-7131d, der-bantam, der-let-7, der-miR-1, der-miR-10, der-miR-100, der-miR-11, der-miR-12, der-miR-124, der-miR-125, der-miR-133, der-miR-13a, der-miR-13b, der-miR-14, der-miR-184-3p, der-miR-184-5p, der-miR-210, der-miR-219, der-miR-2498a-3p, der-miR-2498a-5p, der-miR-2498b-3p, der-miR-2498b-5p, der-miR-2499, der-miR-263a, der-miR-263b, der-miR-274, der-miR-275, der-miR-276a, der-miR-276b, der-miR-277, der-miR-278, der-miR-279, der-miR-280, der-miR-281-1-5p, der-miR-281-2-5p, der-miR-281-3p, der-miR-282, der-miR-283, der-miR-284, der-miR-285, der-miR-286, der-miR-287, der-miR-288, der-miR-289, der-miR-2a, der-miR-2b, der-miR-2c, der-miR-3, der-miR-304, der-miR-305, der-miR-306-3p, der-miR-306-5p, der-miR-307, der-miR-308, der-miR-309, der-miR-310a-3p, der-miR-310a-5p, der-miR-310b-3p, der-miR-310b-5p, der-miR-311a-3p, der-miR-311a-5p, der-miR-311b-3p, der-miR-311b-5p, der-miR-311c-3p, der-miR-311c-5p, der-miR-312-3p, der-miR-312-5p, der-miR-314, der-miR-315, der-miR-316, der-miR-317, der-miR-318, der-miR-31a, der-miR-31b, der-miR-33, der-miR-34, der-miR-4, der-miR-5, der-miR-6, der-miR-7, der-miR-79, der-miR-8, der-miR-87, der-miR-92a, der-miR-92b, der-miR-9680-3p, der-miR-9680-5p, der-miR-9681-3p, der-miR-9681-5p, der-miR-9682-3p, der-miR-9682-5p, der-miR-9683-3p, der-miR-9683-5p, der-miR-9691-3p, der-miR-9691-5p, der-miR-973-3p, der-miR-973-5p, der-miR-974-3p, der-miR-974-5p, der-miR-975-3p, der-miR-975-5p, der-miR-976-3p, der-miR-976-5p, der-miR-977-3p, der-miR-977-5p, der-miR-978-3p, der-miR-978-5p, der-miR-983a-3p, der-miR-983a-5p, der-miR-983b-3p, der-miR-983b-5p, der-miR-991-3p, der-miR-991-5p, der-miR-992-??, der-miR-992-2-5p, der-miR-992-5p, der-miR-9a, der-miR-9b, der-miR-9c, der-miR-iab-4-3p, der-miR-iab-4-5p, dev-miR-D1-3p, dev-miR-D1-5p, dev-miR-D10-3p, dev-miR-D11-3p, dev-miR-D12-3p, dev-miR-D12-5p, dev-miR-D13-5p, dev-miR-D14-3p, dev-miR-D15-3p, dev-miR-D16-3p, dev-miR-D17-3p, dev-miR-D17-5p, dev-miR-D18-3p, dev-miR-

D18-5p, dev-miR-D19-5p, dev-miR-D2-3p, dev-miR-D20-5p, dev-miR-D21-3p, dev-miR-D21-5p, dev-miR-D22-3p, dev-miR-D22-5p, dev-miR-D23-3p, dev-miR-D24-3p, dev-miR-D3-3p, dev-miR-D4-3p, dev-miR-D5-5p, dev-miR-D6-3p, dev-miR-D6-5p, dev-miR-D7-5p, dev-miR-D8-3p, dev-miR-D8-5p, dev-miR-D9-3p, dev-miR-D9-5p, dgr-bantam, dgr-let-7, dgr-miR-1, dgr-miR-10, dgr-miR-100, dgr-miR-11, dgr-miR-12, dgr-miR-124, dgr-miR-125, dgr-miR-133, dgr-miR-13a, dgr-miR-13b, dgr-miR-14, dgr-miR-184-3p, dgr-miR-184-5p, dgr-miR-210, dgr-miR-219, dgr-miR-263a, dgr-miR-263b, dgr-miR-274, dgr-miR-275, dgr-miR-276a-3p, dgr-miR-276a-5p, dgr-miR-276b-3p, dgr-miR-276b-5p, dgr-miR-277, dgr-miR-278, dgr-miR-279, dgr-miR-280, dgr-miR-281-1-5p, dgr-miR-281-2-5p, dgr-miR-281-3p, dgr-miR-282, dgr-miR-283, dgr-miR-284, dgr-miR-285, dgr-miR-286, dgr-miR-287, dgr-miR-288, dgr-miR-2a, dgr-miR-2b, dgr-miR-2c, dgr-miR-3, dgr-miR-304, dgr-miR-305, dgr-miR-306, dgr-miR-307, dgr-miR-308, dgr-miR-309, dgr-miR-314, dgr-miR-315, dgr-miR-316, dgr-miR-317, dgr-miR-318, dgr-miR-31a, dgr-miR-31b, dgr-miR-33, dgr-miR-34, dgr-miR-4, dgr-miR-5, dgr-miR-6, dgr-miR-7, dgr-miR-79, dgr-miR-8, dgr-miR-87, dgr-miR-92a, dgr-miR-92b, dgr-miR-9a, dgr-miR-9b, dgr-miR-9c, dgr-miR-iab-4-3p, dgr-miR-iab-4-5p, dma-let-7a, dma-let-7b, dma-let-7c, dma-let-7f, dma-let-7g, dma-miR-10, dma-miR-100, dma-miR-101, dma-miR-103a, dma-miR-103b, dma-miR-106b, dma-miR-107, dma-miR-10a, dma-miR-125a, dma-miR-125b, dma-miR-127, dma-miR-1307, dma-miR-130a, dma-miR-1388, dma-miR-140, dma-miR-143, dma-miR-145, dma-miR-148b, dma-miR-151, dma-miR-16, dma-miR-181a, dma-miR-181b, dma-miR-181c, dma-miR-186, dma-miR-191, dma-miR-193, dma-miR-196, dma-miR-199, dma-miR-19b, dma-miR-21, dma-miR-214, dma-miR-22, dma-miR-221, dma-miR-222, dma-miR-23b, dma-miR-24, dma-miR-25, dma-miR-26a, dma-miR-26b, dma-miR-27b, dma-miR-28, dma-miR-296, dma-miR-29a, dma-miR-30a, dma-miR-30c, dma-miR-30e, dma-miR-31, dma-miR-339, dma-miR-340, dma-miR-381, dma-miR-409, dma-miR-423, dma-miR-432, dma-miR-502b, dma-miR-532, dma-miR-6529, dma-miR-660, dma-miR-708, dma-miR-877, dma-miR-92a, dma-miR-93, dma-miR-98, dme-bantam-3p, dme-bantam-5p, dme-let-7-3p, dme-let-7-5p, dme-miR-1-3p, dme-miR-1-5p, dme-miR-10-3p, dme-miR-10-5p, dme-miR-100-3p, dme-miR-100-5p, dme-miR-1000-3p, dme-miR-1000-5p, dme-miR-1001-3p, dme-miR-1001-5p, dme-miR-1002-3p, dme-miR-1002-5p, dme-miR-1003-3p, dme-miR-1003-5p, dme-miR-1004-3p, dme-miR-1004-5p, dme-miR-1005-3p, dme-miR-1006-3p, dme-miR-1006-5p, dme-miR-1007-3p, dme-miR-1007-5p, dme-miR-1008-3p, dme-miR-1008-5p, dme-miR-1009-3p, dme-miR-1010-3p, dme-miR-1010-5p, dme-miR-1011-3p, dme-miR-1012-3p, dme-miR-1012-5p, dme-miR-1013-3p, dme-miR-1014-3p, dme-miR-1014-5p, dme-miR-1015-3p, dme-miR-

1016-3p, dme-miR-1016-5p, dme-miR-1017-3p, dme-miR-10404-3p, dme-miR-10404-5p, dme-miR-11-3p, dme-miR-11-5p, dme-miR-11182, dme-miR-12-3p, dme-miR-12-5p, dme-miR-124-3p, dme-miR-124-5p, dme-miR-125-3p, dme-miR-125-5p, dme-miR-133-3p, dme-miR-133-5p, dme-miR-137-3p, dme-miR-137-5p, dme-miR-13a-3p, dme-miR-13a-5p, dme-miR-13b-1-5p, dme-miR-13b-2-5p, dme-miR-13b-3p, dme-miR-14-3p, dme-miR-14-5p, dme-miR-184-3p, dme-miR-184-5p, dme-miR-190-3p, dme-miR-190-5p, dme-miR-193-3p, dme-miR-193-5p, dme-miR-210-3p, dme-miR-210-5p, dme-miR-219-3p, dme-miR-219-5p, dme-miR-2279-3p, dme-miR-2279-5p, dme-miR-2280-3p, dme-miR-2280-5p, dme-miR-2281-3p, dme-miR-2281-5p, dme-miR-2282-3p, dme-miR-2283-3p, dme-miR-2283-5p, dme-miR-2489-3p, dme-miR-2489-5p, dme-miR-2490-3p, dme-miR-2490-5p, dme-miR-2491-3p, dme-miR-2491-5p, dme-miR-2492-3p, dme-miR-2492-5p, dme-miR-2493-3p, dme-miR-2493-5p, dme-miR-2494-3p, dme-miR-2494-5p, dme-miR-2495-3p, dme-miR-2495-5p, dme-miR-2496-3p, dme-miR-2496-5p, dme-miR-2497-3p, dme-miR-2497-5p, dme-miR-2498-3p, dme-miR-2498-5p, dme-miR-2499-3p, dme-miR-2499-5p, dme-miR-2500-3p, dme-miR-2500-5p, dme-miR-2501-3p, dme-miR-2501-5p, dme-miR-252-3p, dme-miR-252-5p, dme-miR-2535b-3p, dme-miR-263a-3p, dme-miR-263a-5p, dme-miR-263b-3p, dme-miR-263b-5p, dme-miR-274-3p, dme-miR-274-5p, dme-miR-275-3p, dme-miR-275-5p, dme-miR-276a-3p, dme-miR-276a-5p, dme-miR-276b-3p, dme-miR-276b-5p, dme-miR-277-3p, dme-miR-277-5p, dme-miR-278-3p, dme-miR-278-5p, dme-miR-279-3p, dme-miR-279-5p, dme-miR-280-5p, dme-miR-281-1-5p, dme-miR-281-2-5p, dme-miR-281-3p, dme-miR-282-3p, dme-miR-282-5p, dme-miR-283-3p, dme-miR-283-5p, dme-miR-284-3p, dme-miR-284-5p, dme-miR-285-3p, dme-miR-285-5p, dme-miR-286-3p, dme-miR-286-5p, dme-miR-287-3p, dme-miR-288-3p, dme-miR-289-5p, dme-miR-2a-1-5p, dme-miR-2a-2-5p, dme-miR-2a-3p, dme-miR-2b-1-5p, dme-miR-2b-2-5p, dme-miR-2b-3p, dme-miR-2c-3p, dme-miR-2c-5p, dme-miR-3-3p, dme-miR-3-5p, dme-miR-303-3p, dme-miR-303-5p, dme-miR-304-3p, dme-miR-304-5p, dme-miR-305-3p, dme-miR-305-5p, dme-miR-306-3p, dme-miR-306-5p, dme-miR-307a-3p, dme-miR-307a-5p, dme-miR-307b-3p, dme-miR-307b-5p, dme-miR-308-3p, dme-miR-308-5p, dme-miR-309-3p, dme-miR-309-5p, dme-miR-310-3p, dme-miR-310-5p, dme-miR-311-3p, dme-miR-311-5p, dme-miR-312-3p, dme-miR-312-5p, dme-miR-313-3p, dme-miR-313-5p, dme-miR-314-3p, dme-miR-314-5p, dme-miR-315-3p, dme-miR-315-5p, dme-miR-316-3p, dme-miR-316-5p, dme-miR-317-3p, dme-miR-317-5p, dme-miR-318-3p, dme-miR-318-5p, dme-miR-31a-3p, dme-miR-31a-5p, dme-miR-31b-3p, dme-miR-31b-5p, dme-miR-33-3p, dme-miR-33-5p, dme-miR-34-3p, dme-miR-34-5p, dme-miR-3641-3p, dme-miR-3641-5p, dme-miR-3642-3p, dme-miR-3642-5p, dme-miR-3643-3p,

dme-miR-3643-5p, dme-miR-3644-3p, dme-miR-3644-5p, dme-miR-3645-3p, dme-miR-3645-5p, dme-miR-375-3p, dme-miR-375-5p, dme-miR-4-3p, dme-miR-4-5p, dme-miR-4908-3p, dme-miR-4909-3p, dme-miR-4910-5p, dme-miR-4911-3p, dme-miR-4912-5p, dme-miR-4913-3p, dme-miR-4914-5p, dme-miR-4915-5p, dme-miR-4916-3p, dme-miR-4917-3p, dme-miR-4918-5p, dme-miR-4919-3p, dme-miR-4919-5p, dme-miR-4939-3p, dme-miR-4940-3p, dme-miR-4940-5p, dme-miR-4941-3p, dme-miR-4941-5p, dme-miR-4942-3p, dme-miR-4943-3p, dme-miR-4943-5p, dme-miR-4944-3p, dme-miR-4944-5p, dme-miR-4945-5p, dme-miR-4946-5p, dme-miR-4947-5p, dme-miR-4948-3p, dme-miR-4948-5p, dme-miR-4949-3p, dme-miR-4949-5p, dme-miR-4950-3p, dme-miR-4950-5p, dme-miR-4951-3p, dme-miR-4951-5p, dme-miR-4952-3p, dme-miR-4952-5p, dme-miR-4953-3p, dme-miR-4954-3p, dme-miR-4954-5p, dme-miR-4955-3p, dme-miR-4955-5p, dme-miR-4956-3p, dme-miR-4956-5p, dme-miR-4957-3p, dme-miR-4957-5p, dme-miR-4958-3p, dme-miR-4958-5p, dme-miR-4959-5p, dme-miR-4960-3p, dme-miR-4961-3p, dme-miR-4961-5p, dme-miR-4962-3p, dme-miR-4962-5p, dme-miR-4963-3p, dme-miR-4963-5p, dme-miR-4964-3p, dme-miR-4965-3p, dme-miR-4965-5p, dme-miR-4966-3p, dme-miR-4966-5p, dme-miR-4967-3p, dme-miR-4967-5p, dme-miR-4968-3p, dme-miR-4968-5p, dme-miR-4969-3p, dme-miR-4969-5p, dme-miR-4970-5p, dme-miR-4971-5p, dme-miR-4972-3p, dme-miR-4972-5p, dme-miR-4973-3p, dme-miR-4973-5p, dme-miR-4974-3p, dme-miR-4974-5p, dme-miR-4975-5p, dme-miR-4976-3p, dme-miR-4976-5p, dme-miR-4977-3p, dme-miR-4977-5p, dme-miR-4978-5p, dme-miR-4979-3p, dme-miR-4979-5p, dme-miR-4980-3p, dme-miR-4981-3p, dme-miR-4982-3p, dme-miR-4982-5p, dme-miR-4983-3p, dme-miR-4983-5p, dme-miR-4984-3p, dme-miR-4984-5p, dme-miR-4985-3p, dme-miR-4985-5p, dme-miR-4986-3p, dme-miR-4986-5p, dme-miR-4987-3p, dme-miR-4987-5p, dme-miR-5-3p, dme-miR-5-5p, dme-miR-6-1-5p, dme-miR-6-2-5p, dme-miR-6-3-5p, dme-miR-6-3p, dme-miR-7-3p, dme-miR-7-5p, dme-miR-79-3p, dme-miR-79-5p, dme-miR-8-3p, dme-miR-8-5p, dme-miR-87-3p, dme-miR-87-5p, dme-miR-927-3p, dme-miR-927-5p, dme-miR-929-3p, dme-miR-929-5p, dme-miR-92a-3p, dme-miR-92a-5p, dme-miR-92b-3p, dme-miR-92b-5p, dme-miR-932-3p, dme-miR-932-5p, dme-miR-9369-3p, dme-miR-9369-5p, dme-miR-9370-3p, dme-miR-9370-5p, dme-miR-9371-3p, dme-miR-9371-5p, dme-miR-9372-3p, dme-miR-9372-5p, dme-miR-9373-3p, dme-miR-9373-5p, dme-miR-9374-3p, dme-miR-9374-5p, dme-miR-9375-3p, dme-miR-9375-5p, dme-miR-9376-3p, dme-miR-9376-5p, dme-miR-9377-3p, dme-miR-9377-5p, dme-miR-9378-3p, dme-miR-9378-5p, dme-miR-9379-3p, dme-miR-9379-5p, dme-miR-9380-3p, dme-miR-9380-5p, dme-miR-9381-3p, dme-miR-9381-5p, dme-miR-9382-3p, dme-miR-9382-5p,

dme-miR-9383-3p, dme-miR-9383-5p, dme-miR-9384-3p, dme-miR-9384-5p, dme-miR-9385-3p, dme-miR-9385-5p, dme-miR-9388-3p, dme-miR-9388-5p, dme-miR-954-3p, dme-miR-954-5p, dme-miR-955-3p, dme-miR-955-5p, dme-miR-956-3p, dme-miR-956-5p, dme-miR-957-3p, dme-miR-957-5p, dme-miR-958-3p, dme-miR-958-5p, dme-miR-959-3p, dme-miR-959-5p, dme-miR-960-3p, dme-miR-960-5p, dme-miR-961-3p, dme-miR-961-5p, dme-miR-962-3p, dme-miR-962-5p, dme-miR-963-3p, dme-miR-963-5p, dme-miR-964-3p, dme-miR-964-5p, dme-miR-965-3p, dme-miR-965-5p, dme-miR-966-3p, dme-miR-966-5p, dme-miR-967-3p, dme-miR-967-5p, dme-miR-968-3p, dme-miR-968-5p, dme-miR-969-3p, dme-miR-969-5p, dme-miR-970-3p, dme-miR-970-5p, dme-miR-971-3p, dme-miR-971-5p, dme-miR-972-3p, dme-miR-972-5p, dme-miR-973-3p, dme-miR-973-5p, dme-miR-974-3p, dme-miR-974-5p, dme-miR-975-3p, dme-miR-975-5p, dme-miR-976-3p, dme-miR-976-5p, dme-miR-977-3p, dme-miR-977-5p, dme-miR-978-3p, dme-miR-978-5p, dme-miR-979-3p, dme-miR-979-5p, dme-miR-980-3p, dme-miR-980-5p, dme-miR-981-3p, dme-miR-981-5p, dme-miR-982-3p, dme-miR-982-5p, dme-miR-983-3p, dme-miR-983-5p, dme-miR-984-3p, dme-miR-984-5p, dme-miR-985-3p, dme-miR-985-5p, dme-miR-986-3p, dme-miR-986-5p, dme-miR-987-3p, dme-miR-987-5p, dme-miR-988-3p, dme-miR-988-5p, dme-miR-989-3p, dme-miR-989-5p, dme-miR-990-3p, dme-miR-990-5p, dme-miR-991-3p, dme-miR-991-5p, dme-miR-992-3p, dme-miR-992-5p, dme-miR-993-3p, dme-miR-993-5p, dme-miR-994-3p, dme-miR-994-5p, dme-miR-995-3p, dme-miR-995-5p, dme-miR-996-3p, dme-miR-996-5p, dme-miR-997-3p, dme-miR-997-5p, dme-miR-998-3p, dme-miR-998-5p, dme-miR-999-3p, dme-miR-999-5p, dme-miR-9a-3p, dme-miR-9a-5p, dme-miR-9b-3p, dme-miR-9b-5p, dme-miR-9c-3p, dme-miR-9c-5p, dme-miR-iab-4-3p, dme-miR-iab-4-5p, dme-miR-iab-8-3p, dme-miR-iab-8-5p, dmo-bantam, dmo-let-7, dmo-miR-1, dmo-miR-10, dmo-miR-100, dmo-miR-11, dmo-miR-12, dmo-miR-124, dmo-miR-125, dmo-miR-133, dmo-miR-13a, dmo-miR-13b, dmo-miR-14, dmo-miR-184-3p, dmo-miR-184-5p, dmo-miR-210, dmo-miR-219, dmo-miR-263a, dmo-miR-274, dmo-miR-275, dmo-miR-276a, dmo-miR-276b, dmo-miR-277, dmo-miR-278, dmo-miR-279, dmo-miR-280, dmo-miR-281-1-5p, dmo-miR-281-2-5p, dmo-miR-281-3p, dmo-miR-282, dmo-miR-283, dmo-miR-284, dmo-miR-285, dmo-miR-286, dmo-miR-287, dmo-miR-288, dmo-miR-2a, dmo-miR-2b, dmo-miR-2c, dmo-miR-3, dmo-miR-304, dmo-miR-305, dmo-miR-306-3p, dmo-miR-306-5p, dmo-miR-307, dmo-miR-308, dmo-miR-309, dmo-miR-313, dmo-miR-314, dmo-miR-315, dmo-miR-316, dmo-miR-317, dmo-miR-318, dmo-miR-31a, dmo-miR-31b, dmo-miR-33, dmo-miR-34, dmo-miR-4, dmo-miR-5, dmo-miR-6, dmo-miR-7, dmo-miR-79, dmo-miR-8, dmo-miR-87, dmo-miR-92a, dmo-miR-92b, dmo-miR-9a, dmo-miR-9b, dmo-miR-9c, dmo-miR-iab-4-3p, dmo-miR-iab-

4-5p, dno-let-7a-3p, dno-let-7a-5p, dno-let-7b-3p, dno-let-7b-5p, dno-let-7c-2-3p, dno-let-7c-3p, dno-let-7c-5p, dno-let-7d-3p, dno-let-7d-5p, dno-let-7f-2-3p, dno-let-7f-3p, dno-let-7f-5p, dno-let-7g-5p, dno-let-7i-3p, dno-let-7i-5p, dno-miR-1-2-5p, dno-miR-1-3p, dno-miR-1-5p, dno-miR-100-3p, dno-miR-100-5p, dno-miR-101-2-5p, dno-miR-101-3p, dno-miR-101-5p, dno-miR-103a-2-5p, dno-miR-103a-3p, dno-miR-103a-5p, dno-miR-106a-3p, dno-miR-106a-5p, dno-miR-106b-3p, dno-miR-106b-5p, dno-miR-107-3p, dno-miR-107-5p, dno-miR-10a-3p, dno-miR-10a-5p, dno-miR-10b-3p, dno-miR-10b-5p, dno-miR-1185-2-3p, dno-miR-1185-3p, dno-miR-1185-5p, dno-miR-1193-3p, dno-miR-1193-5p, dno-miR-1197-3p, dno-miR-1197-5p, dno-miR-12085-3p, dno-miR-12085-5p, dno-miR-12086-3p, dno-miR-12086-5p, dno-miR-12087-3p, dno-miR-12087-5p, dno-miR-122-3p, dno-miR-122-5p, dno-miR-124-3p, dno-miR-124-5p, dno-miR-1249-3p, dno-miR-1249-5p, dno-miR-1251-3p, dno-miR-1251-5p, dno-miR-125b-2-3p, dno-miR-125b-3p, dno-miR-125b-5p, dno-miR-126-3p, dno-miR-126-5p, dno-miR-127-3p, dno-miR-127-5p, dno-miR-1271-3p, dno-miR-1271-5p, dno-miR-1277-3p, dno-miR-1277-5p, dno-miR-128-2-5p, dno-miR-128-3p, dno-miR-128-5p, dno-miR-129-2-3p, dno-miR-129-3p, dno-miR-129-5p, dno-miR-1296-3p, dno-miR-1296-5p, dno-miR-1298-3p, dno-miR-1298-5p, dno-miR-1301-3p, dno-miR-1301-5p, dno-miR-1307-3p, dno-miR-1307-5p, dno-miR-130a-3p, dno-miR-130a-5p, dno-miR-130b-3p, dno-miR-130b-5p, dno-miR-132-3p, dno-miR-132-5p, dno-miR-133a-3p, dno-miR-133a-5p, dno-miR-133b-3p, dno-miR-133b-5p, dno-miR-134-3p, dno-miR-134-5p, dno-miR-1343-3p, dno-miR-1343-5p, dno-miR-135a-2-3p, dno-miR-135a-3p, dno-miR-135a-5p, dno-miR-135b-3p, dno-miR-135b-5p, dno-miR-136-3p, dno-miR-136-5p, dno-miR-137-3p, dno-miR-137-5p, dno-miR-138-2-3p, dno-miR-138-3p, dno-miR-138-5p, dno-miR-1388-3p, dno-miR-1388-5p, dno-miR-139-3p, dno-miR-139-5p, dno-miR-140-3p, dno-miR-140-5p, dno-miR-141-3p, dno-miR-141-5p, dno-miR-142-3p, dno-miR-142-5p, dno-miR-143-3p, dno-miR-143-5p, dno-miR-144-3p, dno-miR-144-5p, dno-miR-146a-3p, dno-miR-146a-5p, dno-miR-146b-3p, dno-miR-146b-5p, dno-miR-147-3p, dno-miR-147-5p, dno-miR-148a-3p, dno-miR-148a-5p, dno-miR-148b-3p, dno-miR-148b-5p, dno-miR-149-3p, dno-miR-149-5p, dno-miR-150-3p, dno-miR-150-5p, dno-miR-151-3p, dno-miR-151-5p, dno-miR-153a-3p, dno-miR-153a-5p, dno-miR-153b-3p, dno-miR-153b-5p, dno-miR-154a-3p, dno-miR-154a-5p, dno-miR-154b-3p, dno-miR-154b-5p, dno-miR-155-3p, dno-miR-155-5p, dno-miR-15a-3p, dno-miR-15a-5p, dno-miR-15b-3p, dno-miR-15b-5p, dno-miR-16a-3p, dno-miR-16a-5p, dno-miR-16b-3p, dno-miR-16b-5p, dno-miR-17-3p, dno-miR-17-5p, dno-miR-181a-2-3p, dno-miR-181a-3p, dno-miR-181a-5p, dno-miR-181b-2-3p, dno-miR-181b-3p, dno-miR-181b-5p, dno-miR-181c-3p, dno-miR-181c-5p, dno-miR-181d-3p, dno-miR-181d-5p, dno-miR-182-

3p, dno-miR-182-5p, dno-miR-183-3p, dno-miR-183-5p, dno-miR-184-3p, dno-miR-184-5p, dno-miR-1842-3p, dno-miR-1842-5p, dno-miR-185-3p, dno-miR-185-5p, dno-miR-186-3p, dno-miR-186-5p, dno-miR-187-3p, dno-miR-187-5p, dno-miR-188-3p, dno-miR-188-5p, dno-miR-18a-3p, dno-miR-18a-5p, dno-miR-18b-3p, dno-miR-18b-5p, dno-miR-190a-3p, dno-miR-190a-5p, dno-miR-190b-3p, dno-miR-190b-5p, dno-miR-191-3p, dno-miR-191-5p, dno-miR-192-3p, dno-miR-192-5p, dno-miR-193a-3p, dno-miR-193a-5p, dno-miR-193b-3p, dno-miR-193b-5p, dno-miR-194-3p, dno-miR-194-5p, dno-miR-195-3p, dno-miR-195-5p, dno-miR-196a-3p, dno-miR-196a-5p, dno-miR-196b-3p, dno-miR-196b-5p, dno-miR-196c-3p, dno-miR-196c-5p, dno-miR-197-3p, dno-miR-197-5p, dno-miR-199-2-5p, dno-miR-199-3p, dno-miR-199-5p, dno-miR-19a-3p, dno-miR-19a-5p, dno-miR-19b-2-5p, dno-miR-19b-3p, dno-miR-19b-5p, dno-miR-200b-3p, dno-miR-200b-5p, dno-miR-202-3p, dno-miR-202-5p, dno-miR-204-3p, dno-miR-204-5p, dno-miR-205-3p, dno-miR-205-5p, dno-miR-206-3p, dno-miR-206-5p, dno-miR-208a-3p, dno-miR-208a-5p, dno-miR-208b-3p, dno-miR-208b-5p, dno-miR-20a-3p, dno-miR-20a-5p, dno-miR-20b-3p, dno-miR-20b-5p, dno-miR-21-3p, dno-miR-21-5p, dno-miR-210-3p, dno-miR-210-5p, dno-miR-211-3p, dno-miR-211-5p, dno-miR-2114-3p, dno-miR-2114-5p, dno-miR-214-3p, dno-miR-214-5p, dno-miR-215-3p, dno-miR-215-5p, dno-miR-216a-3p, dno-miR-216a-5p, dno-miR-216b-3p, dno-miR-216b-5p, dno-miR-217-3p, dno-miR-217-5p, dno-miR-218-2-3p, dno-miR-218-3p, dno-miR-218-5p, dno-miR-219a-3p, dno-miR-219a-5p, dno-miR-219b-3p, dno-miR-219b-5p, dno-miR-22-3p, dno-miR-22-5p, dno-miR-221-3p, dno-miR-221-5p, dno-miR-222-3p, dno-miR-222-5p, dno-miR-223-3p, dno-miR-223-5p, dno-miR-224-3p, dno-miR-224-5p, dno-miR-2355-3p, dno-miR-2355-5p, dno-miR-23a-3p, dno-miR-23a-5p, dno-miR-23b-3p, dno-miR-23b-5p, dno-miR-2483-3p, dno-miR-2483-5p, dno-miR-24a-3p, dno-miR-24a-5p, dno-miR-24b-3p, dno-miR-24b-5p, dno-miR-25-3p, dno-miR-25-5p, dno-miR-26a-2-3p, dno-miR-26a-3p, dno-miR-26a-5p, dno-miR-26b-3p, dno-miR-26b-5p, dno-miR-27a-3p, dno-miR-27a-5p, dno-miR-27b-3p, dno-miR-27b-5p, dno-miR-28-3p, dno-miR-28-5p, dno-miR-296-3p, dno-miR-296-5p, dno-miR-299-3p, dno-miR-299-5p, dno-miR-29a-3p, dno-miR-29a-5p, dno-miR-29b-2-5p, dno-miR-29b-3p, dno-miR-29b-5p, dno-miR-29c-3p, dno-miR-29c-5p, dno-miR-301a-3p, dno-miR-301a-5p, dno-miR-301b-3p, dno-miR-301b-5p, dno-miR-302a-3p, dno-miR-302a-5p, dno-miR-302b-3p, dno-miR-302b-5p, dno-miR-302c-3p, dno-miR-302c-5p, dno-miR-302d-3p, dno-miR-302d-5p, dno-miR-3059-3p, dno-miR-3059-5p, dno-miR-3085-3p, dno-miR-3085-5p, dno-miR-30a-3p, dno-miR-30a-5p, dno-miR-30b-3p, dno-miR-30b-5p, dno-miR-30c-2-3p, dno-miR-30c-3p, dno-miR-30c-5p, dno-miR-30d-3p, dno-miR-30d-5p, dno-miR-30e-3p, dno-miR-30e-5p, dno-miR-31-3p, dno-miR-31-5p, dno-miR-32-3p,

dno-miR-32-5p, dno-miR-323a-3p, dno-miR-323a-5p, dno-miR-323b-3p, dno-miR-323b-5p, dno-miR-324-3p, dno-miR-324-5p, dno-miR-326-3p, dno-miR-326-5p, dno-miR-328-3p, dno-miR-328-5p, dno-miR-329-3p, dno-miR-329-5p, dno-miR-330-3p, dno-miR-330-5p, dno-miR-331-3p, dno-miR-331-5p, dno-miR-335-3p, dno-miR-335-5p, dno-miR-337-3p, dno-miR-337-5p, dno-miR-338-3p, dno-miR-338-5p, dno-miR-339-3p, dno-miR-339-5p, dno-miR-33a-3p, dno-miR-33a-5p, dno-miR-33b-3p, dno-miR-33b-5p, dno-miR-340-3p, dno-miR-340-5p, dno-miR-342-3p, dno-miR-342-5p, dno-miR-345-3p, dno-miR-345-5p, dno-miR-34a-3p, dno-miR-34a-5p, dno-miR-34b-3p, dno-miR-34b-5p, dno-miR-34c-3p, dno-miR-34c-5p, dno-miR-361-3p, dno-miR-361-5p, dno-miR-3613-3p, dno-miR-3613-5p, dno-miR-362-3p, dno-miR-362-5p, dno-miR-363-3p, dno-miR-363-5p, dno-miR-365-2-5p, dno-miR-365-3p, dno-miR-365-5p, dno-miR-367-3p, dno-miR-367-5p, dno-miR-369-3p, dno-miR-369-5p, dno-miR-371-3p, dno-miR-371-5p, dno-miR-372-3p, dno-miR-372-5p, dno-miR-374a-3p, dno-miR-374a-5p, dno-miR-375-3p, dno-miR-375-5p, dno-miR-376a-3p, dno-miR-376a-5p, dno-miR-376b-3p, dno-miR-376b-5p, dno-miR-376d-3p, dno-miR-376d-5p, dno-miR-377-3p, dno-miR-377-5p, dno-miR-378-3p, dno-miR-378-5p, dno-miR-379-3p, dno-miR-379-5p, dno-miR-380-3p, dno-miR-380-5p, dno-miR-381-3p, dno-miR-381-5p, dno-miR-382-3p, dno-miR-382-5p, dno-miR-383-3p, dno-miR-383-5p, dno-miR-3959-3p, dno-miR-3959-5p, dno-miR-409-3p, dno-miR-409-5p, dno-miR-410-3p, dno-miR-410-5p, dno-miR-411-3p, dno-miR-411-5p, dno-miR-412-3p, dno-miR-412-5p, dno-miR-421-3p, dno-miR-421-5p, dno-miR-423-3p, dno-miR-423-5p, dno-miR-424-3p, dno-miR-424-5p, dno-miR-425-3p, dno-miR-425-5p, dno-miR-429-3p, dno-miR-429-5p, dno-miR-432-3p, dno-miR-432-5p, dno-miR-433-3p, dno-miR-433-5p, dno-miR-449a-3p, dno-miR-449a-5p, dno-miR-449b-3p, dno-miR-449c-3p, dno-miR-449c-5p, dno-miR-450a-3p, dno-miR-450a-5p, dno-miR-450b-3p, dno-miR-450b-5p, dno-miR-450c-3p, dno-miR-450c-5p, dno-miR-451-5p, dno-miR-454-3p, dno-miR-454-5p, dno-miR-455-3p, dno-miR-455-5p, dno-miR-483-3p, dno-miR-483-5p, dno-miR-485-3p, dno-miR-485-5p, dno-miR-486-3p, dno-miR-486-5p, dno-miR-487a-3p, dno-miR-487a-5p, dno-miR-487b-3p, dno-miR-487b-5p, dno-miR-488-3p, dno-miR-488-5p, dno-miR-489-3p, dno-miR-489-5p, dno-miR-490-3p, dno-miR-490-5p, dno-miR-491-3p, dno-miR-491-5p, dno-miR-493-3p, dno-miR-493-5p, dno-miR-494-3p, dno-miR-494-5p, dno-miR-495-3p, dno-miR-495-5p, dno-miR-496-3p, dno-miR-496-5p, dno-miR-497-3p, dno-miR-497-5p, dno-miR-499-3p, dno-miR-499-5p, dno-miR-500a-3p, dno-miR-500a-5p, dno-miR-500b-3p, dno-miR-500b-5p, dno-miR-502-3p, dno-miR-502-5p, dno-miR-503-3p, dno-miR-503-5p, dno-miR-504-3p, dno-miR-504-5p, dno-miR-505-3p, dno-miR-505-5p, dno-miR-506-3p, dno-miR-506-5p, dno-miR-507-3p,

dno-miR-507-5p, dno-miR-508-3p, dno-miR-508-5p, dno-miR-509a-2-5p, dno-miR-509a-3p, dno-miR-509a-5p, dno-miR-509b-3p, dno-miR-509b-5p, dno-miR-512-3p, dno-miR-512-5p, dno-miR-532-3p, dno-miR-532-5p, dno-miR-539-3p, dno-miR-539-5p, dno-miR-541-3p, dno-miR-541-5p, dno-miR-542-3p, dno-miR-542-5p, dno-miR-543-3p, dno-miR-543-5p, dno-miR-545-3p, dno-miR-545-5p, dno-miR-551a-3p, dno-miR-551b-3p, dno-miR-551b-5p, dno-miR-574-3p, dno-miR-574-5p, dno-miR-582-3p, dno-miR-582-5p, dno-miR-590-3p, dno-miR-590-5p, dno-miR-628-3p, dno-miR-628-5p, dno-miR-652-3p, dno-miR-652-5p, dno-miR-6529-3p, dno-miR-6529-5p, dno-miR-653-3p, dno-miR-653-5p, dno-miR-654-3p, dno-miR-654-5p, dno-miR-656-3p, dno-miR-656-5p, dno-miR-660-3p, dno-miR-660-5p, dno-miR-670-3p, dno-miR-670-5p, dno-miR-671-3p, dno-miR-671-5p, dno-miR-672-3p, dno-miR-672-5p, dno-miR-675-3p, dno-miR-675-5p, dno-miR-676-3p, dno-miR-676-5p, dno-miR-7-2-3p, dno-miR-7-3-3p, dno-miR-7-3p, dno-miR-7-5p, dno-miR-708-3p, dno-miR-708-5p, dno-miR-744-3p, dno-miR-744-5p, dno-miR-758-3p, dno-miR-758-5p, dno-miR-760-3p, dno-miR-760-5p, dno-miR-802-3p, dno-miR-802-5p, dno-miR-873-3p, dno-miR-873-5p, dno-miR-874-3p, dno-miR-874-5p, dno-miR-885-3p, dno-miR-885-5p, dno-miR-889-3p, dno-miR-889-5p, dno-miR-9-3p, dno-miR-9-5p, dno-miR-92a-2-5p, dno-miR-92a-3p, dno-miR-92a-5p, dno-miR-92b-3p, dno-miR-92b-5p, dno-miR-93-3p, dno-miR-93-5p, dno-miR-95-3p, dno-miR-95-5p, dno-miR-96-3p, dno-miR-96-5p, dno-miR-98-3p, dno-miR-98-5p, dno-miR-99a-3p, dno-miR-99a-5p, dpe-bantam, dpe-let-7, dpe-miR-1, dpe-miR-10, dpe-miR-100, dpe-miR-11, dpe-miR-12, dpe-miR-124, dpe-miR-125, dpe-miR-133, dpe-miR-13a, dpe-miR-13b, dpe-miR-14, dpe-miR-184-3p, dpe-miR-184-5p, dpe-miR-210, dpe-miR-219, dpe-miR-263a, dpe-miR-263b, dpe-miR-274, dpe-miR-275, dpe-miR-276a, dpe-miR-276b, dpe-miR-277, dpe-miR-278, dpe-miR-279, dpe-miR-280, dpe-miR-281-1-5p, dpe-miR-281-2-5p, dpe-miR-281-3p, dpe-miR-282, dpe-miR-283, dpe-miR-284, dpe-miR-286, dpe-miR-287, dpe-miR-288, dpe-miR-289, dpe-miR-2a, dpe-miR-2b, dpe-miR-2c, dpe-miR-3, dpe-miR-305, dpe-miR-306, dpe-miR-307, dpe-miR-308, dpe-miR-309, dpe-miR-314, dpe-miR-315, dpe-miR-316, dpe-miR-317, dpe-miR-318, dpe-miR-31a, dpe-miR-31b, dpe-miR-33, dpe-miR-34, dpe-miR-4, dpe-miR-5, dpe-miR-6, dpe-miR-7, dpe-miR-79, dpe-miR-8, dpe-miR-87, dpe-miR-92a, dpe-miR-92b, dpe-miR-9a, dpe-miR-9b, dpe-miR-9c, dpe-miR-iab-4-3p, dpe-miR-iab-4-5p, dpr-miR156a, dpr-miR156b, dpr-miR160, dpr-miR166a, dpr-miR166b, dpr-miR167a, dpr-miR167b, dpr-miR167c, dpr-miR172a, dpr-miR172b, dpr-miR396, dpr-miR397, dpr-miR408, dps-bantam, dps-let-7, dps-miR-1, dps-miR-10, dps-miR-100, dps-miR-1000-3p, dps-miR-1000-5p, dps-miR-1002-3p, dps-miR-1002-5p, dps-miR-1006-3p, dps-miR-1006-5p, dps-miR-1010-3p, dps-miR-1010-5p, dps-

miR-11, dps-miR-12, dps-miR-124, dps-miR-125, dps-miR-133, dps-miR-137-3p, dps-miR-137-5p, dps-miR-13a, dps-miR-13b, dps-miR-14, dps-miR-184, dps-miR-190-3p, dps-miR-190-5p, dps-miR-193-3p, dps-miR-193-5p, dps-miR-210a, dps-miR-210b, dps-miR-219, dps-miR-2502, dps-miR-2503, dps-miR-2504, dps-miR-2505, dps-miR-2506, dps-miR-2507a, dps-miR-2507b-3p, dps-miR-2507b-5p, dps-miR-2508, dps-miR-2509, dps-miR-2510, dps-miR-2511, dps-miR-2512, dps-miR-2513a, dps-miR-2513b, dps-miR-2514, dps-miR-2515, dps-miR-2516, dps-miR-2517-3p, dps-miR-2517-5p, dps-miR-2518, dps-miR-2519, dps-miR-252-3p, dps-miR-252-5p, dps-miR-2520, dps-miR-2521, dps-miR-2522a, dps-miR-2522b-3p, dps-miR-2522b-5p, dps-miR-2523, dps-miR-2524, dps-miR-2525, dps-miR-2526-3p, dps-miR-2527, dps-miR-2528, dps-miR-2529, dps-miR-2530, dps-miR-2531, dps-miR-2532, dps-miR-2533, dps-miR-2534, dps-miR-2535-3p, dps-miR-2535-5p, dps-miR-2536-3p, dps-miR-2536-5p, dps-miR-2537-3p, dps-miR-2537-5p, dps-miR-2538-3p, dps-miR-2538-5p, dps-miR-2539-3p, dps-miR-2539-5p, dps-miR-2540-3p, dps-miR-2540-5p, dps-miR-2541-3p, dps-miR-2541-5p, dps-miR-2542-3p, dps-miR-2542-5p, dps-miR-2543a-3p, dps-miR-2543a-5p, dps-miR-2543b-3p, dps-miR-2543b-5p, dps-miR-2544-3p, dps-miR-2544-5p, dps-miR-2545a-3p, dps-miR-2545a-5p, dps-miR-2545b, dps-miR-2546-3p, dps-miR-2546-5p, dps-miR-2547-3p, dps-miR-2547-5p, dps-miR-2548-3p, dps-miR-2548-5p, dps-miR-2549-3p, dps-miR-2549-5p, dps-miR-2550-3p, dps-miR-2550-5p, dps-miR-2551-3p, dps-miR-2551-5p, dps-miR-2552-3p, dps-miR-2552-5p, dps-miR-2553-3p, dps-miR-2553-5p, dps-miR-2554-3p, dps-miR-2554-5p, dps-miR-2555-3p, dps-miR-2555-5p, dps-miR-2556-3p, dps-miR-2556-5p, dps-miR-2557-3p, dps-miR-2557-5p, dps-miR-2558-3p, dps-miR-2558-5p, dps-miR-2559-3p, dps-miR-2559-5p, dps-miR-2560-3p, dps-miR-2560-5p, dps-miR-2561-3p, dps-miR-2561-5p, dps-miR-2562-3p, dps-miR-2562-5p, dps-miR-2563-3p, dps-miR-2563-5p, dps-miR-2564-3p, dps-miR-2564-5p, dps-miR-2565-3p, dps-miR-2565-5p, dps-miR-2566a-1-5p, dps-miR-2566a-2-5p, dps-miR-2566a-3p, dps-miR-2566b-3p, dps-miR-2566b-5p, dps-miR-2567a-3p, dps-miR-2567a-5p, dps-miR-2567b-3p, dps-miR-2567b-5p, dps-miR-2567c-3p, dps-miR-2567c-5p, dps-miR-2568a-3p, dps-miR-2568a-5p, dps-miR-2568b-3p, dps-miR-2568b-5p, dps-miR-2569-3p, dps-miR-2569-5p, dps-miR-2570-3p, dps-miR-2570-5p, dps-miR-2571-3p, dps-miR-2571-5p, dps-miR-2572-3p, dps-miR-2572-5p, dps-miR-2573-3p, dps-miR-2573-5p, dps-miR-2574a-3p, dps-miR-2574a-5p, dps-miR-2574b, dps-miR-2575-3p, dps-miR-2575-5p, dps-miR-2576, dps-miR-263a, dps-miR-263b, dps-miR-274, dps-miR-275, dps-miR-276a, dps-miR-276b, dps-miR-276c, dps-miR-277, dps-miR-278, dps-miR-279, dps-miR-280, dps-miR-281, dps-miR-282, dps-miR-283, dps-miR-284, dps-miR-285, dps-miR-286, dps-miR-287, dps-miR-288, dps-miR-

289, dps-miR-2a, dps-miR-2b, dps-miR-2c, dps-miR-3, dps-miR-304, dps-miR-305, dps-miR-306, dps-miR-307a, dps-miR-307b, dps-miR-308, dps-miR-309, dps-miR-311-3p, dps-miR-311-5p, dps-miR-314, dps-miR-315, dps-miR-316, dps-miR-317, dps-miR-318, dps-miR-31a, dps-miR-31b, dps-miR-33, dps-miR-34, dps-miR-375-3p, dps-miR-375-5p, dps-miR-3983, dps-miR-4, dps-miR-5, dps-miR-6, dps-miR-7, dps-miR-79, dps-miR-8, dps-miR-87, dps-miR-927-3p, dps-miR-927-5p, dps-miR-929-3p, dps-miR-929-5p, dps-miR-92a, dps-miR-92b, dps-miR-92c-3p, dps-miR-92c-5p, dps-miR-932-3p, dps-miR-932-5p, dps-miR-957-3p, dps-miR-957-5p, dps-miR-958-3p, dps-miR-958-5p, dps-miR-959-3p, dps-miR-959-5p, dps-miR-964-3p, dps-miR-964-5p, dps-miR-965-3p, dps-miR-965-5p, dps-miR-968-3p, dps-miR-968-5p, dps-miR-969-3p, dps-miR-969-5p, dps-miR-970-3p, dps-miR-970-5p, dps-miR-971-3p, dps-miR-971-5p, dps-miR-980-3p, dps-miR-980-5p, dps-miR-981-3p, dps-miR-981-5p, dps-miR-986-3p, dps-miR-986-5p, dps-miR-987-3p, dps-miR-987-5p, dps-miR-988-3p, dps-miR-988-5p, dps-miR-989, dps-miR-993-3p, dps-miR-993-5p, dps-miR-994-3p, dps-miR-994-5p, dps-miR-995-3p, dps-miR-995-5p, dps-miR-9a, dps-miR-9b, dps-miR-9c, dps-miR-iab-4-3p, dps-miR-iab-4-5p, dps-miR-iab-8-3p, dps-miR-iab-8-5p, dpu-bantam, dpu-miR-1, dpu-miR-10, dpu-miR-100, dpu-miR-12, dpu-miR-124, dpu-miR-133, dpu-miR-137, dpu-miR-153, dpu-miR-193, dpu-miR-2, dpu-miR-219, dpu-miR-252a, dpu-miR-252b, dpu-miR-263a, dpu-miR-263b, dpu-miR-275, dpu-miR-276, dpu-miR-278, dpu-miR-279a, dpu-miR-279b, dpu-miR-281, dpu-miR-283, dpu-miR-285, dpu-miR-305, dpu-miR-307, dpu-miR-31, dpu-miR-315, dpu-miR-317, dpu-miR-33, dpu-miR-34, dpu-miR-375, dpu-miR-7, dpu-miR-71, dpu-miR-745, dpu-miR-8, dpu-miR-9-3p, dpu-miR-9-5p, dpu-miR-92, dpu-miR-96, dpu-miR-965, dpu-miR-981, dpu-miR-993, dpu-miR-iab-4-3p, dpu-miR-iab-4-5p, dqu-bantam-3p, dqu-bantam-5p, dqu-iab-4-3p, dqu-iab-4-5p, dqu-let-7-3p, dqu-let-7-5p, dqu-miR-10-3p, dqu-miR-10-5p, dqu-miR-100-3p, dqu-miR-100-5p, dqu-miR-1000-3p, dqu-miR-1000-5p, dqu-miR-11-3p, dqu-miR-11-5p, dqu-miR-11651-3p, dqu-miR-11651-5p, dqu-miR-11652-3p, dqu-miR-11652-5p, dqu-miR-11653-3p, dqu-miR-11653-5p, dqu-miR-11654-3p, dqu-miR-11654-5p, dqu-miR-11655-3p, dqu-miR-11655-5p, dqu-miR-11656-3p, dqu-miR-11656-5p, dqu-miR-11657-3p, dqu-miR-11657-5p, dqu-miR-11658-3p, dqu-miR-11658-5p, dqu-miR-11659-3p, dqu-miR-11659-5p, dqu-miR-11660-3p, dqu-miR-11660-5p, dqu-miR-11661-3p, dqu-miR-11661-5p, dqu-miR-11662-3p, dqu-miR-11662-5p, dqu-miR-1175-3p, dqu-miR-1175-5p, dqu-miR-12-3p, dqu-miR-12-5p, dqu-miR-124-3p, dqu-miR-124-5p, dqu-miR-125-3p, dqu-miR-125-5p, dqu-miR-133-3p, dqu-miR-133-5p, dqu-miR-137-3p, dqu-miR-137-5p, dqu-miR-13a-3p, dqu-miR-13a-5p, dqu-miR-13b-3p, dqu-miR-13b-5p, dqu-miR-14-3p, dqu-miR-14-5p, dqu-miR-184-3p, dqu-miR-184-5p, dqu-

miR-190-3p, dqu-miR-190-5p, dqu-miR-193-3p, dqu-miR-193-5p, dqu-miR-1a-3p, dqu-miR-1a-5p, dqu-miR-1b-3p, dqu-miR-1b-5p, dqu-miR-210-3p, dqu-miR-210-5p, dqu-miR-219-3p, dqu-miR-219-5p, dqu-miR-252a-3p, dqu-miR-252a-5p, dqu-miR-252b-3p, dqu-miR-252b-5p, dqu-miR-263a-3p, dqu-miR-263a-5p, dqu-miR-263b-3p, dqu-miR-263b-5p, dqu-miR-275-3p, dqu-miR-275-5p, dqu-miR-276-3p, dqu-miR-276-5p, dqu-miR-2765-3p, dqu-miR-2765-5p, dqu-miR-277-3p, dqu-miR-277-5p, dqu-miR-278-3p, dqu-miR-278-5p, dqu-miR-2788-3p, dqu-miR-2788-5p, dqu-miR-2796-3p, dqu-miR-2796-5p, dqu-miR-279a-3p, dqu-miR-279a-5p, dqu-miR-279b-3p, dqu-miR-279b-5p, dqu-miR-279c-3p, dqu-miR-279c-5p, dqu-miR-281-3p, dqu-miR-281-5p, dqu-miR-282-3p, dqu-miR-282-5p, dqu-miR-283-3p, dqu-miR-283-5p, dqu-miR-29-3p, dqu-miR-29-5p, dqu-miR-2a-3p, dqu-miR-2a-5p, dqu-miR-2b-3p, dqu-miR-2b-5p, dqu-miR-305-3p, dqu-miR-305-5p, dqu-miR-306-3p, dqu-miR-306-5p, dqu-miR-307-3p, dqu-miR-307-5p, dqu-miR-31-3p, dqu-miR-31-5p, dqu-miR-315-3p, dqu-miR-315-5p, dqu-miR-316-3p, dqu-miR-316-5p, dqu-miR-317-3p, dqu-miR-317-5p, dqu-miR-33-3p, dqu-miR-33-5p, dqu-miR-34-3p, dqu-miR-34-5p, dqu-miR-3477-3p, dqu-miR-3477-5p, dqu-miR-3715-3p, dqu-miR-3715-5p, dqu-miR-375-3p, dqu-miR-375-5p, dqu-miR-3759-3p, dqu-miR-3770-3p, dqu-miR-3770-5p, dqu-miR-3782-5p, dqu-miR-3783-3p, dqu-miR-3783-5p, dqu-miR-3785-3p, dqu-miR-3785-5p, dqu-miR-3786-3p, dqu-miR-3786-5p, dqu-miR-6001-3p, dqu-miR-6001-5p, dqu-miR-6037-3p, dqu-miR-6037-5p, dqu-miR-6038-3p, dqu-miR-6038-5p, dqu-miR-6039-3p, dqu-miR-6039-5p, dqu-miR-6060-5p, dqu-miR-6065-3p, dqu-miR-6067-5p, dqu-miR-7-3p, dqu-miR-7-5p, dqu-miR-71-3p, dqu-miR-71-5p, dqu-miR-750-3p, dqu-miR-750-5p, dqu-miR-79-3p, dqu-miR-79-5p, dqu-miR-8-3p, dqu-miR-8-5p, dqu-miR-87-3p, dqu-miR-87-5p, dqu-miR-9-3p, dqu-miR-9-5p, dqu-miR-927a-3p, dqu-miR-927a-5p, dqu-miR-927b-3p, dqu-miR-927b-5p, dqu-miR-929-3p, dqu-miR-929-5p, dqu-miR-92a-3p, dqu-miR-92a-5p, dqu-miR-92b-3p, dqu-miR-92b-5p, dqu-miR-92c-3p, dqu-miR-92c-5p, dqu-miR-932-3p, dqu-miR-932-5p, dqu-miR-965-3p, dqu-miR-965-5p, dqu-miR-971-3p, dqu-miR-971-5p, dqu-miR-980-3p, dqu-miR-980-5p, dqu-miR-981-3p, dqu-miR-981-5p, dqu-miR-993-3p, dqu-miR-993-5p, dqu-miR-995-3p, dqu-miR-995-5p, dqu-miR-996-3p, dqu-miR-996-5p, dre-let-7a, dre-let-7b, dre-let-7c-3p, dre-let-7c-5p, dre-let-7d-3p, dre-let-7d-5p, dre-let-7e, dre-let-7f, dre-let-7g, dre-let-7h, dre-let-7i, dre-let-7j, dre-miR-1, dre-miR-100-2-3p, dre-miR-100-3p, dre-miR-100-5p, dre-miR-101a, dre-miR-101b, dre-miR-103, dre-miR-107a-3p, dre-miR-107a-5p, dre-miR-107b, dre-miR-10a-3p, dre-miR-10a-5p, dre-miR-10b-2-3p, dre-miR-10b-3p, dre-miR-10b-5p, dre-miR-10c-3p, dre-miR-10c-5p, dre-miR-10d-3p, dre-miR-10d-5p, dre-miR-122, dre-miR-124-3p, dre-miR-124-4-5p, dre-miR-124-5p, dre-miR-124-6-5p, dre-miR-125a, dre-miR-125b-1-3p, dre-

miR-125b-2-3p, dre-miR-125b-3-3p, dre-miR-125b-5p, dre-miR-125c-3p, dre-miR-125c-5p, dre-miR-126a-3p, dre-miR-126a-5p, dre-miR-126b-3p, dre-miR-126b-5p, dre-miR-128-3-5p, dre-miR-128-3p, dre-miR-128-5p, dre-miR-129-1-3p, dre-miR-129-3-3p, dre-miR-129-3p, dre-miR-129-5p, dre-miR-1306, dre-miR-130a, dre-miR-130b, dre-miR-130c-3p, dre-miR-130c-5p, dre-miR-132-3p, dre-miR-132-5p, dre-miR-133a-2-5p, dre-miR-133a-3p, dre-miR-133a-5p, dre-miR-133b-3p, dre-miR-133b-5p, dre-miR-133c-3p, dre-miR-133c-5p, dre-miR-135a, dre-miR-135b-3p, dre-miR-135b-5p, dre-miR-135c, dre-miR-137-3p, dre-miR-137-5p, dre-miR-138-2-3p, dre-miR-138-3p, dre-miR-138-5p, dre-miR-1388-3p, dre-miR-1388-5p, dre-miR-139-3p, dre-miR-139-5p, dre-miR-140-3p, dre-miR-140-5p, dre-miR-141-3p, dre-miR-141-5p, dre-miR-142a-3p, dre-miR-142a-5p, dre-miR-142b-5p, dre-miR-143, dre-miR-144-3p, dre-miR-144-5p, dre-miR-145-3p, dre-miR-145-5p, dre-miR-146a, dre-miR-146b, dre-miR-148, dre-miR-150, dre-miR-152, dre-miR-153a-3p, dre-miR-153a-5p, dre-miR-153b-3p, dre-miR-153b-5p, dre-miR-153c-3p, dre-miR-153c-5p, dre-miR-155, dre-miR-15a-3p, dre-miR-15a-5p, dre-miR-15b-3p, dre-miR-15b-5p, dre-miR-15c, dre-miR-16a, dre-miR-16b, dre-miR-16c-3p, dre-miR-16c-5p, dre-miR-1788-3p, dre-miR-1788-5p, dre-miR-17a-2-3p, dre-miR-17a-3p, dre-miR-17a-5p, dre-miR-181a-2-3p, dre-miR-181a-3-3p, dre-miR-181a-3p, dre-miR-181a-4-3p, dre-miR-181a-5-3p, dre-miR-181a-5p, dre-miR-181b-3-3p, dre-miR-181b-3p, dre-miR-181b-5p, dre-miR-181c-3p, dre-miR-181c-5p, dre-miR-181d-3p, dre-miR-181d-5p, dre-miR-182-3p, dre-miR-182-5p, dre-miR-183-3p, dre-miR-183-5p, dre-miR-184, dre-miR-187, dre-miR-18a, dre-miR-18b-3p, dre-miR-18b-5p, dre-miR-18c, dre-miR-190a, dre-miR-190b, dre-miR-192, dre-miR-193a-3p, dre-miR-193a-5p, dre-miR-193b-3p, dre-miR-193b-5p, dre-miR-194a, dre-miR-194b, dre-miR-196a-3p, dre-miR-196a-5p, dre-miR-196b, dre-miR-196c, dre-miR-196d, dre-miR-199-3-3p, dre-miR-199-3p, dre-miR-199-5p, dre-miR-19a-3p, dre-miR-19a-5p, dre-miR-19b-3p, dre-miR-19b-5p, dre-miR-19c-3p, dre-miR-19c-5p, dre-miR-19d-3p, dre-miR-19d-5p, dre-miR-200a-3p, dre-miR-200a-5p, dre-miR-200b-3p, dre-miR-200b-5p, dre-miR-200c-3p, dre-miR-200c-5p, dre-miR-202-3p, dre-miR-202-5p, dre-miR-203a-3p, dre-miR-203a-5p, dre-miR-203b-3p, dre-miR-203b-5p, dre-miR-204-2-3p, dre-miR-204-3-3p, dre-miR-204-3p, dre-miR-204-5p, dre-miR-205-3p, dre-miR-205-5p, dre-miR-206-3p, dre-miR-206-5p, dre-miR-20a-3p, dre-miR-20a-5p, dre-miR-20b-3p, dre-miR-20b-5p, dre-miR-21, dre-miR-210-3p, dre-miR-210-5p, dre-miR-212, dre-miR-212-3p, dre-miR-212-5p, dre-miR-214, dre-miR-216a, dre-miR-216b, dre-miR-217, dre-miR-2184, dre-miR-2185-3p, dre-miR-2185-5p, dre-miR-2186, dre-miR-2187-3p, dre-miR-2187-5p, dre-miR-2188-3p, dre-miR-2188-5p, dre-miR-2189, dre-miR-218a, dre-miR-218b, dre-miR-219-3p, dre-miR-219-5p, dre-miR-2191, dre-miR-2192, dre-miR-2193, dre-

miR-2194, dre-miR-2195, dre-miR-2196, dre-miR-2197, dre-miR-2198, dre-miR-221-3p, dre-miR-221-5p, dre-miR-222a-3p, dre-miR-222a-5p, dre-miR-222b, dre-miR-223, dre-miR-22a-3p, dre-miR-22a-5p, dre-miR-22b-3p, dre-miR-22b-5p, dre-miR-23a-3-5p, dre-miR-23a-3p, dre-miR-23a-5p, dre-miR-23b, dre-miR-23b-3p, dre-miR-23b-5p, dre-miR-24, dre-miR-24b-3p, dre-miR-24b-5p, dre-miR-25-3p, dre-miR-25-5p, dre-miR-26a-2-3p, dre-miR-26a-3p, dre-miR-26a-5p, dre-miR-26b, dre-miR-27a-3p, dre-miR-27a-5p, dre-miR-27b-3p, dre-miR-27b-5p, dre-miR-27c-3p, dre-miR-27c-5p, dre-miR-27d, dre-miR-27e, dre-miR-29a, dre-miR-29b, dre-miR-29b3-3p, dre-miR-29b3-5p, dre-miR-301a, dre-miR-301b-3p, dre-miR-301b-5p, dre-miR-301c-3p, dre-miR-301c-5p, dre-miR-30a-3p, dre-miR-30a-5p, dre-miR-30b, dre-miR-30c-3p, dre-miR-30c-5p, dre-miR-30d, dre-miR-30e-3p, dre-miR-30e-5p, dre-miR-31, dre-miR-338, dre-miR-338-3p, dre-miR-338-5p, dre-miR-34a, dre-miR-34b, dre-miR-34c-3p, dre-miR-34c-5p, dre-miR-363-3p, dre-miR-363-5p, dre-miR-365, dre-miR-375, dre-miR-3906, dre-miR-429a, dre-miR-429b, dre-miR-430a-11-5p, dre-miR-430a-12-5p, dre-miR-430a-13-5p, dre-miR-430a-14-5p, dre-miR-430a-15-5p, dre-miR-430a-16-5p, dre-miR-430a-17-5p, dre-miR-430a-3p, dre-miR-430a-4-5p, dre-miR-430a-5p, dre-miR-430b-3p, dre-miR-430b-5p, dre-miR-430c-3p, dre-miR-430c-5p, dre-miR-430i-3p, dre-miR-430i-5p, dre-miR-451, dre-miR-454a, dre-miR-454b, dre-miR-455-2-5p, dre-miR-455-3p, dre-miR-455-5p, dre-miR-456, dre-miR-457a, dre-miR-457b-3p, dre-miR-457b-5p, dre-miR-458-3p, dre-miR-458-5p, dre-miR-459-3p, dre-miR-459-5p, dre-miR-460-3p, dre-miR-460-5p, dre-miR-461, dre-miR-462, dre-miR-489, dre-miR-499-3p, dre-miR-499-5p, dre-miR-7132-3p, dre-miR-7132-5p, dre-miR-7133-3p, dre-miR-7133-5p, dre-miR-7145, dre-miR-7146-3p, dre-miR-7146-5p, dre-miR-7147, dre-miR-7148-3p, dre-miR-7148-5p, dre-miR-7149-3p, dre-miR-7149-5p, dre-miR-722, dre-miR-723-3p, dre-miR-723-5p, dre-miR-724, dre-miR-725-3p, dre-miR-725-5p, dre-miR-726, dre-miR-727-3p, dre-miR-727-5p, dre-miR-728, dre-miR-729, dre-miR-730, dre-miR-731, dre-miR-732, dre-miR-733, dre-miR-734, dre-miR-735-3p, dre-miR-735-5p, dre-miR-736, dre-miR-737-3p, dre-miR-737-5p, dre-miR-738, dre-miR-740, dre-miR-7a, dre-miR-7b, dre-miR-9-3p, dre-miR-9-4-3p, dre-miR-9-5p, dre-miR-9-7-3p, dre-miR-92a-2-5p, dre-miR-92a-3p, dre-miR-92a-5p, dre-miR-92b-3p, dre-miR-92b-5p, dre-miR-93, dre-miR-96-3p, dre-miR-96-5p, dre-miR-99, dse-bantam, dse-let-7, dse-miR-1, dse-miR-10, dse-miR-100, dse-miR-11, dse-miR-12, dse-miR-124, dse-miR-125, dse-miR-133, dse-miR-13a, dse-miR-13b, dse-miR-14, dse-miR-184-3p, dse-miR-184-5p, dse-miR-210, dse-miR-219, dse-miR-2498a-3p, dse-miR-2498a-5p, dse-miR-2498b-3p, dse-miR-2498b-5p, dse-miR-2499-3p, dse-miR-2499-5p, dse-miR-2582-3p, dse-miR-2582-5p, dse-miR-263a, dse-miR-263b, dse-miR-274, dse-miR-275, dse-miR-276a, dse-miR-276b, dse-

miR-277, dse-miR-278, dse-miR-279, dse-miR-280, dse-miR-281-1-5p, dse-miR-281-2-5p, dse-miR-281-3p, dse-miR-282, dse-miR-283, dse-miR-284, dse-miR-285, dse-miR-286, dse-miR-287, dse-miR-288, dse-miR-289, dse-miR-2a, dse-miR-2b, dse-miR-2c, dse-miR-3, dse-miR-303-3p, dse-miR-303-5p, dse-miR-304, dse-miR-305, dse-miR-306-3p, dse-miR-306-5p, dse-miR-307, dse-miR-308, dse-miR-309, dse-miR-310-3p, dse-miR-310-5p, dse-miR-311-3p, dse-miR-311-5p, dse-miR-312-3p, dse-miR-312-5p, dse-miR-313-3p, dse-miR-313-5p, dse-miR-314, dse-miR-315, dse-miR-316, dse-miR-317, dse-miR-318, dse-miR-31a, dse-miR-31b, dse-miR-33, dse-miR-34, dse-miR-4, dse-miR-4966-2-3p, dse-miR-4966-3p, dse-miR-4966-5p, dse-miR-5, dse-miR-6, dse-miR-7, dse-miR-79, dse-miR-8, dse-miR-87, dse-miR-92a, dse-miR-92b, dse-miR-9369-3p, dse-miR-9369-5p, dse-miR-9680-3p, dse-miR-9680-5p, dse-miR-9685-3p, dse-miR-9685-5p, dse-miR-973-3p, dse-miR-973-5p, dse-miR-974-3p, dse-miR-974-5p, dse-miR-975-3p, dse-miR-975-5p, dse-miR-976, dse-miR-977-3p, dse-miR-977-5p, dse-miR-978a-3p, dse-miR-978a-5p, dse-miR-978b, dse-miR-982b, dse-miR-982c-3p, dse-miR-982c-5p, dse-miR-983-3p, dse-miR-983-5p, dse-miR-991-3p, dse-miR-991-5p, dse-miR-992-3p, dse-miR-992-5p, dse-miR-9a, dse-miR-9b, dse-miR-9c, dse-miR-iab-4-3p, dse-miR-iab-4-5p, dsi-bantam, dsi-let-7, dsi-miR-1, dsi-miR-10, dsi-miR-100, dsi-miR-1000-3p, dsi-miR-1000-5p, dsi-miR-1001-3p, dsi-miR-1001-5p, dsi-miR-1002-3p, dsi-miR-1002-5p, dsi-miR-1003-3p, dsi-miR-1003-5p, dsi-miR-1005-3p, dsi-miR-1005-5p, dsi-miR-1006-3p, dsi-miR-1006-5p, dsi-miR-1010-3p, dsi-miR-1010-5p, dsi-miR-1011, dsi-miR-1012-3p, dsi-miR-1012-5p, dsi-miR-1013, dsi-miR-11, dsi-miR-12, dsi-miR-124, dsi-miR-125, dsi-miR-133, dsi-miR-137-3p, dsi-miR-137-5p, dsi-miR-13a, dsi-miR-13b, dsi-miR-14, dsi-miR-184-3p, dsi-miR-184-5p, dsi-miR-190-3p, dsi-miR-190-5p, dsi-miR-193-3p, dsi-miR-193-5p, dsi-miR-210, dsi-miR-219, dsi-miR-2489, dsi-miR-2494-3p, dsi-miR-2494-5p, dsi-miR-2498a-3p, dsi-miR-2498a-5p, dsi-miR-2498b-3p, dsi-miR-2498b-5p, dsi-miR-2498c-3p, dsi-miR-2498c-5p, dsi-miR-2499-3p, dsi-miR-2499-5p, dsi-miR-252-3p, dsi-miR-252-5p, dsi-miR-2577, dsi-miR-2578, dsi-miR-2579, dsi-miR-2580, dsi-miR-2581, dsi-miR-2582a-3p, dsi-miR-2582a-5p, dsi-miR-2582b-3p, dsi-miR-2582b-5p, dsi-miR-2583-3p, dsi-miR-2583-5p, dsi-miR-2584-3p, dsi-miR-2584-5p, dsi-miR-263a, dsi-miR-263b, dsi-miR-275, dsi-miR-276a, dsi-miR-276b, dsi-miR-277, dsi-miR-278, dsi-miR-279, dsi-miR-281-3p, dsi-miR-281-5p, dsi-miR-282, dsi-miR-283, dsi-miR-284, dsi-miR-285, dsi-miR-286, dsi-miR-287, dsi-miR-288, dsi-miR-289, dsi-miR-2a, dsi-miR-2b, dsi-miR-2c, dsi-miR-3, dsi-miR-303-3p, dsi-miR-303-5p, dsi-miR-304, dsi-miR-305, dsi-miR-307, dsi-miR-308, dsi-miR-309, dsi-miR-310-3p, dsi-miR-310-5p, dsi-miR-311-3p, dsi-miR-311-5p, dsi-miR-312-3p, dsi-miR-312-5p, dsi-miR-313-3p, dsi-miR-313-5p, dsi-miR-314, dsi-miR-315, dsi-

miR-316, dsi-miR-317, dsi-miR-318, dsi-miR-31a, dsi-miR-31b, dsi-miR-33, dsi-miR-34, dsi-miR-375-3p, dsi-miR-375-5p, dsi-miR-4, dsi-miR-4966-3-3p, dsi-miR-4966-3p, dsi-miR-4966-5p, dsi-miR-5, dsi-miR-6-3p, dsi-miR-6-5p, dsi-miR-7, dsi-miR-8, dsi-miR-87, dsi-miR-927-3p, dsi-miR-927-5p, dsi-miR-929-3p, dsi-miR-929-5p, dsi-miR-92a, dsi-miR-92b, dsi-miR-932-3p, dsi-miR-932-5p, dsi-miR-9369-3p, dsi-miR-9369-5p, dsi-miR-955-3p, dsi-miR-955-5p, dsi-miR-957, dsi-miR-958-3p, dsi-miR-958-5p, dsi-miR-959, dsi-miR-960, dsi-miR-961-3p, dsi-miR-961-5p, dsi-miR-962, dsi-miR-963-3p, dsi-miR-963-5p, dsi-miR-964-3p, dsi-miR-964-5p, dsi-miR-965-3p, dsi-miR-965-5p, dsi-miR-967-3p, dsi-miR-967-5p, dsi-miR-968-3p, dsi-miR-968-5p, dsi-miR-9680-3p, dsi-miR-9680-5p, dsi-miR-969-3p, dsi-miR-969-5p, dsi-miR-970-3p, dsi-miR-970-5p, dsi-miR-972-3p, dsi-miR-972-5p, dsi-miR-973-3p, dsi-miR-973-5p, dsi-miR-974-3p, dsi-miR-974-5p, dsi-miR-975-3p, dsi-miR-975-5p, dsi-miR-976-3p, dsi-miR-976-5p, dsi-miR-977-3p, dsi-miR-977-5p, dsi-miR-978a-3p, dsi-miR-978a-5p, dsi-miR-978b-3p, dsi-miR-978b-5p, dsi-miR-980-3p, dsi-miR-980-5p, dsi-miR-981-3p, dsi-miR-981-5p, dsi-miR-982a-3p, dsi-miR-982a-5p, dsi-miR-982b-3p, dsi-miR-982b-5p, dsi-miR-982c-3p, dsi-miR-982c-5p, dsi-miR-983a-3p, dsi-miR-983a-5p, dsi-miR-983b-3p, dsi-miR-983b-5p, dsi-miR-986-3p, dsi-miR-986-5p, dsi-miR-987-3p, dsi-miR-987-5p, dsi-miR-988-3p, dsi-miR-988-5p, dsi-miR-989, dsi-miR-991-3p, dsi-miR-991-5p, dsi-miR-992-3p, dsi-miR-992-5p, dsi-miR-993-3p, dsi-miR-993-5p, dsi-miR-995-3p, dsi-miR-995-5p, dsi-miR-999-3p, dsi-miR-999-5p, dsi-miR-9a, dsi-miR-iab-4-3p, dsi-miR-iab-4-5p, dsi-miR-iab-8-3p, dsi-miR-iab-8-5p, dvi-bantam-3p, dvi-bantam-5p, dvi-let-7, dvi-miR-1-3p, dvi-miR-1-5p, dvi-miR-10-3p, dvi-miR-10-5p, dvi-miR-100-3p, dvi-miR-100-5p, dvi-miR-1000-3p, dvi-miR-1000-5p, dvi-miR-1002-3p, dvi-miR-1002-5p, dvi-miR-1003-3p, dvi-miR-1006-3p, dvi-miR-1006-5p, dvi-miR-1007-3p, dvi-miR-1010-3p, dvi-miR-1010-5p, dvi-miR-1017-3p, dvi-miR-11-3p, dvi-miR-11-5p, dvi-miR-12-3p, dvi-miR-12-5p, dvi-miR-124-3p, dvi-miR-124-5p, dvi-miR-125-3p, dvi-miR-125-5p, dvi-miR-133-3p, dvi-miR-133-5p, dvi-miR-137-3p, dvi-miR-13a-3p, dvi-miR-13a-5p, dvi-miR-13b-2-5p, dvi-miR-13b-3p, dvi-miR-13b-5p, dvi-miR-14-3p, dvi-miR-14-5p, dvi-miR-184-3p, dvi-miR-184-5p, dvi-miR-190-3p, dvi-miR-190-5p, dvi-miR-193-3p, dvi-miR-193-5p, dvi-miR-210-3p, dvi-miR-210-5p, dvi-miR-219-3p, dvi-miR-219-5p, dvi-miR-252-3p, dvi-miR-252-5p, dvi-miR-263a-3p, dvi-miR-263a-5p, dvi-miR-263b-3p, dvi-miR-263b-5p, dvi-miR-274, dvi-miR-275-3p, dvi-miR-275-5p, dvi-miR-276a-3p, dvi-miR-276a-5p, dvi-miR-276b-3p, dvi-miR-276b-5p, dvi-miR-277-3p, dvi-miR-277-5p, dvi-miR-278-3p, dvi-miR-278-5p, dvi-miR-279-3p, dvi-miR-279-5p, dvi-miR-280, dvi-miR-281-1-5p, dvi-miR-281-2-5p, dvi-miR-281-3p, dvi-miR-282-3p, dvi-miR-282-5p, dvi-miR-283-3p, dvi-miR-283-5p, dvi-miR-284-3p, dvi-miR-284-5p,

dvi-miR-285-3p, dvi-miR-285-5p, dvi-miR-286-3p, dvi-miR-286-5p, dvi-miR-287, dvi-miR-288, dvi-miR-2a-2-5p, dvi-miR-2a-3p, dvi-miR-2a-5p, dvi-miR-2b-3p, dvi-miR-2b-5p, dvi-miR-2c-3p, dvi-miR-2c-5p, dvi-miR-3-3p, dvi-miR-3-5p, dvi-miR-304-3p, dvi-miR-304-5p, dvi-miR-305-3p, dvi-miR-305-5p, dvi-miR-306-3p, dvi-miR-306-5p, dvi-miR-307, dvi-miR-308-3p, dvi-miR-308-5p, dvi-miR-309-3p, dvi-miR-309-5p, dvi-miR-310-3p, dvi-miR-310-5p, dvi-miR-311-3p, dvi-miR-311-5p, dvi-miR-313-3p, dvi-miR-313-5p, dvi-miR-314-3p, dvi-miR-314-5p, dvi-miR-315a, dvi-miR-315b, dvi-miR-316-3p, dvi-miR-316-5p, dvi-miR-317-3p, dvi-miR-317-5p, dvi-miR-318, dvi-miR-31a-3p, dvi-miR-31a-5p, dvi-miR-31b, dvi-miR-33-3p, dvi-miR-33-5p, dvi-miR-34-3p, dvi-miR-34-5p, dvi-miR-375-3p, dvi-miR-375-5p, dvi-miR-4-3p, dvi-miR-4-5p, dvi-miR-5-3p, dvi-miR-5-5p, dvi-miR-6-1-5p, dvi-miR-6-2-5p, dvi-miR-6-3-5p, dvi-miR-6-3p, dvi-miR-7-3p, dvi-miR-7-5p, dvi-miR-79-3p, dvi-miR-79-5p, dvi-miR-8-3p, dvi-miR-8-5p, dvi-miR-87-3p, dvi-miR-87-5p, dvi-miR-927-3p, dvi-miR-927-5p, dvi-miR-929-5p, dvi-miR-92a-3p, dvi-miR-92a-5p, dvi-miR-92b-3p, dvi-miR-92b-5p, dvi-miR-932-3p, dvi-miR-932-5p, dvi-miR-9538-3p, dvi-miR-9538-5p, dvi-miR-9538b-3p, dvi-miR-9538b-5p, dvi-miR-9539-3p, dvi-miR-9539-5p, dvi-miR-9540-3p, dvi-miR-9540-5p, dvi-miR-9541a-3p, dvi-miR-9541a-5p, dvi-miR-9541b-3p, dvi-miR-9541b-5p, dvi-miR-9542a-3p, dvi-miR-9542a-5p, dvi-miR-9542b-3p, dvi-miR-9542b-5p, dvi-miR-9542c-3p, dvi-miR-9542c-5p, dvi-miR-9542d-3p, dvi-miR-9542d-5p, dvi-miR-9542e-3p, dvi-miR-9542e-5p, dvi-miR-9543a-3p, dvi-miR-9543a-5p, dvi-miR-9544a-3p, dvi-miR-9544a-5p, dvi-miR-9544b-3p, dvi-miR-9544b-5p, dvi-miR-9544c-3p, dvi-miR-9544c-5p, dvi-miR-9545-3p, dvi-miR-9545-5p, dvi-miR-9546-3p, dvi-miR-9546-5p, dvi-miR-9547-3p, dvi-miR-9547-5p, dvi-miR-9548-3p, dvi-miR-9548-5p, dvi-miR-9549-3p, dvi-miR-9549-5p, dvi-miR-955-3p, dvi-miR-9550-3p, dvi-miR-9550-5p, dvi-miR-956-3p, dvi-miR-956-5p, dvi-miR-957-3p, dvi-miR-958-3p, dvi-miR-958-5p, dvi-miR-962-5p, dvi-miR-963-5p, dvi-miR-964-5p, dvi-miR-965-3p, dvi-miR-965-5p, dvi-miR-968-3p, dvi-miR-968-5p, dvi-miR-969-3p, dvi-miR-969-5p, dvi-miR-9692-3p, dvi-miR-9692-5p, dvi-miR-9693-3p, dvi-miR-9693-5p, dvi-miR-9694-3p, dvi-miR-9694-5p, dvi-miR-9695-3p, dvi-miR-9695-5p, dvi-miR-9696a-3p, dvi-miR-9696a-5p, dvi-miR-9696b-3p, dvi-miR-9696b-5p, dvi-miR-9697-3p, dvi-miR-9697-5p, dvi-miR-9698-3p, dvi-miR-9698-5p, dvi-miR-9699-3p, dvi-miR-9699-5p, dvi-miR-970-3p, dvi-miR-970-5p, dvi-miR-9700a-3p, dvi-miR-9700a-5p, dvi-miR-9700b-3p, dvi-miR-9700b-5p, dvi-miR-9701a-3p, dvi-miR-9701a-5p, dvi-miR-9701b-3p, dvi-miR-9701b-5p, dvi-miR-9702-3p, dvi-miR-9702-5p, dvi-miR-9703-3p, dvi-miR-9703-5p, dvi-miR-9704-2-3p, dvi-miR-9704-3p, dvi-miR-9704-5p, dvi-miR-9705-3p, dvi-miR-9705-5p, dvi-miR-9706a-3p, dvi-miR-9706a-5p, dvi-miR-9706b-3p, dvi-miR-9706b-5p, dvi-miR-

9707-3p, dvi-miR-9707-5p, dvi-miR-9708a-3p, dvi-miR-9708a-5p, dvi-miR-9708b-3p, dvi-miR-9708b-5p, dvi-miR-9708c-3p, dvi-miR-9708c-5p, dvi-miR-9708d-3p, dvi-miR-9708d-5p, dvi-miR-9709-3p, dvi-miR-9709-5p, dvi-miR-971-3p, dvi-miR-9710-3p, dvi-miR-9710-5p, dvi-miR-9711-3p, dvi-miR-9711-5p, dvi-miR-9712-3p, dvi-miR-9712-5p, dvi-miR-9713-3p, dvi-miR-9713-5p, dvi-miR-9714-3p, dvi-miR-9714-5p, dvi-miR-9716-3p, dvi-miR-9716-5p, dvi-miR-9717-3p, dvi-miR-9717-5p, dvi-miR-9719-3p, dvi-miR-9719-5p, dvi-miR-9720-3p, dvi-miR-9720-5p, dvi-miR-9721-3p, dvi-miR-9721-5p, dvi-miR-973-3p, dvi-miR-973-5p, dvi-miR-974-1-3p, dvi-miR-974-1-5p, dvi-miR-974-2-5p, dvi-miR-974-3p, dvi-miR-975-3p, dvi-miR-975-5p, dvi-miR-976-3p, dvi-miR-976-5p, dvi-miR-977-3p, dvi-miR-977-5p, dvi-miR-980-3p, dvi-miR-980-5p, dvi-miR-981-3p, dvi-miR-981-5p, dvi-miR-986-3p, dvi-miR-986-5p, dvi-miR-987-5p, dvi-miR-988-3p, dvi-miR-988-5p, dvi-miR-989-3p, dvi-miR-989-5p, dvi-miR-993-3p, dvi-miR-993-5p, dvi-miR-994-3p, dvi-miR-994-5p, dvi-miR-995-3p, dvi-miR-995-5p, dvi-miR-996-3p, dvi-miR-996-5p, dvi-miR-998-3p, dvi-miR-998-5p, dvi-miR-999-3p, dvi-miR-999-5p, dvi-miR-9a-3p, dvi-miR-9a-5p, dvi-miR-9b-3p, dvi-miR-9b-5p, dvi-miR-9c-3p, dvi-miR-9c-5p, dvi-miR-iab-4-3p, dvi-miR-iab-4-5p, dvi-miR-iab-8-3p, dvi-miR-iab-8-5p, dwi-bantam, dwi-let-7, dwi-miR-1, dwi-miR-10, dwi-miR-100, dwi-miR-11, dwi-miR-12, dwi-miR-124, dwi-miR-125, dwi-miR-133, dwi-miR-13a, dwi-miR-13b, dwi-miR-14, dwi-miR-184-3p, dwi-miR-184-5p, dwi-miR-210, dwi-miR-219, dwi-miR-263a, dwi-miR-263b, dwi-miR-274, dwi-miR-275, dwi-miR-276a-3p, dwi-miR-276a-5p, dwi-miR-276b-3p, dwi-miR-276b-5p, dwi-miR-277, dwi-miR-278, dwi-miR-279, dwi-miR-280, dwi-miR-281-1-5p, dwi-miR-281-2-5p, dwi-miR-281-3p, dwi-miR-282, dwi-miR-283, dwi-miR-284, dwi-miR-285, dwi-miR-286, dwi-miR-287, dwi-miR-288, dwi-miR-2a, dwi-miR-2b, dwi-miR-2c, dwi-miR-3, dwi-miR-304, dwi-miR-305, dwi-miR-306, dwi-miR-307, dwi-miR-308, dwi-miR-309, dwi-miR-314, dwi-miR-315, dwi-miR-316, dwi-miR-317, dwi-miR-318, dwi-miR-31a, dwi-miR-31b, dwi-miR-33, dwi-miR-34, dwi-miR-4, dwi-miR-5, dwi-miR-6, dwi-miR-7, dwi-miR-79, dwi-miR-8, dwi-miR-87, dwi-miR-92a, dwi-miR-92b, dwi-miR-9a, dwi-miR-9b, dwi-miR-9c, dwi-miR-iab-4-3p, dwi-miR-iab-4-5p, dya-bantam, dya-let-7, dya-miR-1, dya-miR-10, dya-miR-100, dya-miR-11, dya-miR-124, dya-miR-125, dya-miR-133, dya-miR-13a, dya-miR-13b, dya-miR-14, dya-miR-184-3p, dya-miR-184-5p, dya-miR-210, dya-miR-219, dya-miR-2498-3p, dya-miR-2498-5p, dya-miR-2499, dya-miR-263a, dya-miR-263b, dya-miR-274, dya-miR-275, dya-miR-276a, dya-miR-276b, dya-miR-277, dya-miR-278, dya-miR-279, dya-miR-280, dya-miR-281-1-5p, dya-miR-281-2-5p, dya-miR-281-3p, dya-miR-282, dya-miR-283, dya-miR-284, dya-miR-285, dya-miR-286, dya-miR-287, dya-miR-288, dya-miR-289, dya-miR-2a, dya-miR-2b, dya-miR-2c, dya-miR-3,

dya-miR-303, dya-miR-304, dya-miR-305, dya-miR-306-3p, dya-miR-306-5p, dya-miR-307, dya-miR-308, dya-miR-309, dya-miR-310-3p, dya-miR-310-5p, dya-miR-311a-3p, dya-miR-311a-5p, dya-miR-311b-3p, dya-miR-311b-5p, dya-miR-312-3p, dya-miR-312-5p, dya-miR-314, dya-miR-315, dya-miR-316, dya-miR-317, dya-miR-318, dya-miR-31a, dya-miR-31b, dya-miR-33, dya-miR-34, dya-miR-4, dya-miR-5, dya-miR-6, dya-miR-7, dya-miR-79, dya-miR-8, dya-miR-87, dya-miR-92a, dya-miR-92b, dya-miR-9681-3p, dya-miR-9681-5p, dya-miR-9682-3p, dya-miR-9682-5p, dya-miR-9683-3p, dya-miR-9683-5p, dya-miR-9690-3p, dya-miR-9690-5p, dya-miR-975-3p, dya-miR-975-5p, dya-miR-976-3p, dya-miR-976-5p, dya-miR-977-3p, dya-miR-977-5p, dya-miR-978-3p, dya-miR-978-5p, dya-miR-991-3p, dya-miR-991-5p, dya-miR-992-3p, dya-miR-992-5p, dya-miR-9a, dya-miR-9b, dya-miR-9c, dya-miR-iab-4-3p, dya-miR-iab-4-5p, ebv-miR-BART1-3p, ebv-miR-BART1-5p, ebv-miR-BART10-3p, ebv-miR-BART10-5p, ebv-miR-BART11-3p, ebv-miR-BART11-5p, ebv-miR-BART12, ebv-miR-BART13-3p, ebv-miR-BART13-5p, ebv-miR-BART14-3p, ebv-miR-BART14-5p, ebv-miR-BART15, ebv-miR-BART16, ebv-miR-BART17-3p, ebv-miR-BART17-5p, ebv-miR-BART18-3p, ebv-miR-BART18-5p, ebv-miR-BART19-3p, ebv-miR-BART19-5p, ebv-miR-BART2-3p, ebv-miR-BART2-5p, ebv-miR-BART20-3p, ebv-miR-BART20-5p, ebv-miR-BART21-3p, ebv-miR-BART21-5p, ebv-miR-BART22, ebv-miR-BART3-3p, ebv-miR-BART3-5p, ebv-miR-BART4-3p, ebv-miR-BART4-5p, ebv-miR-BART5-3p, ebv-miR-BART5-5p, ebv-miR-BART6-3p, ebv-miR-BART6-5p, ebv-miR-BART7-3p, ebv-miR-BART7-5p, ebv-miR-BART8-3p, ebv-miR-BART8-5p, ebv-miR-BART9-3p, ebv-miR-BART9-5p, ebv-miR-BHRF1-1, ebv-miR-BHRF1-2-3p, ebv-miR-BHRF1-2-5p, ebv-miR-BHRF1-3, eca-let-7a, eca-let-7c, eca-let-7d, eca-let-7e, eca-let-7f, eca-let-7g, eca-miR-1, eca-miR-100, eca-miR-101, eca-miR-103, eca-miR-105, eca-miR-106a, eca-miR-106b, eca-miR-107a, eca-miR-107b, eca-miR-10a, eca-miR-10b, eca-miR-1179, eca-miR-1180, eca-miR-1185, eca-miR-1193, eca-miR-1197, eca-miR-1204, eca-miR-122, eca-miR-124, eca-miR-1244, eca-miR-1248, eca-miR-1249, eca-miR-1255b, eca-miR-125a-3p, eca-miR-125a-5p, eca-miR-125b-5p, eca-miR-126-3p, eca-miR-126-5p, eca-miR-1261, eca-miR-1264, eca-miR-127, eca-miR-1271a, eca-miR-1271b, eca-miR-128, eca-miR-1282, eca-miR-1289, eca-miR-1291a, eca-miR-1291b, eca-miR-1296, eca-miR-1298, eca-miR-129a-3p, eca-miR-129a-5p, eca-miR-129b-3p, eca-miR-129b-5p, eca-miR-1301, eca-miR-1302, eca-miR-1302b, eca-miR-1302c, eca-miR-1302d, eca-miR-1302e, eca-miR-1307, eca-miR-130a, eca-miR-130b, eca-miR-132, eca-miR-133a, eca-miR-133b, eca-miR-134, eca-miR-135a, eca-miR-135b, eca-miR-136, eca-miR-137, eca-miR-1379, eca-miR-138, eca-miR-1388, eca-miR-139-3p, eca-miR-139-5p, eca-miR-140-3p, eca-miR-140-5p, eca-miR-

141, eca-miR-142-3p, eca-miR-142-5p, eca-miR-143, eca-miR-144, eca-miR-145, eca-miR-1461, eca-miR-1468, eca-miR-146a, eca-miR-146b-3p, eca-miR-146b-5p, eca-miR-147b, eca-miR-148a, eca-miR-148b-3p, eca-miR-148b-5p, eca-miR-149, eca-miR-150, eca-miR-151-5p, eca-miR-153, eca-miR-1543, eca-miR-154a, eca-miR-154b, eca-miR-155, eca-miR-1597, eca-miR-15a, eca-miR-15b, eca-miR-16, eca-miR-17, eca-miR-181a, eca-miR-181b, eca-miR-182, eca-miR-183, eca-miR-1839, eca-miR-184, eca-miR-1842, eca-miR-185, eca-miR-186, eca-miR-187, eca-miR-188-3p, eca-miR-188-5p, eca-miR-1892, eca-miR-1898, eca-miR-18a, eca-miR-18b, eca-miR-1902, eca-miR-1905a, eca-miR-1905b, eca-miR-1905c, eca-miR-190a, eca-miR-190b, eca-miR-1911, eca-miR-1912, eca-miR-191a, eca-miR-191b, eca-miR-192, eca-miR-193a-3p, eca-miR-193a-5p, eca-miR-193b, eca-miR-194, eca-miR-195, eca-miR-196a, eca-miR-196b, eca-miR-197, eca-miR-199a-3p, eca-miR-199a-5p, eca-miR-199b-3p, eca-miR-199b-5p, eca-miR-19a, eca-miR-19b, eca-miR-200a, eca-miR-200b, eca-miR-200c, eca-miR-204b, eca-miR-205, eca-miR-206, eca-miR-208a, eca-miR-208b, eca-miR-20a, eca-miR-20b, eca-miR-21, eca-miR-211, eca-miR-2114, eca-miR-212, eca-miR-214, eca-miR-215, eca-miR-216a, eca-miR-216b, eca-miR-217, eca-miR-218, eca-miR-219-5p, eca-miR-22, eca-miR-221, eca-miR-222, eca-miR-223, eca-miR-224, eca-miR-23a, eca-miR-23b, eca-miR-24, eca-miR-2483, eca-miR-25, eca-miR-26a, eca-miR-27a, eca-miR-27b, eca-miR-28-3p, eca-miR-28-5p, eca-miR-296, eca-miR-299, eca-miR-29a, eca-miR-29b, eca-miR-29c, eca-miR-301a, eca-miR-301b-3p, eca-miR-301b-5p, eca-miR-302a, eca-miR-302b, eca-miR-302c, eca-miR-302d, eca-miR-3065, eca-miR-30b, eca-miR-30c, eca-miR-30d, eca-miR-30e, eca-miR-31, eca-miR-32, eca-miR-3200, eca-miR-323-3p, eca-miR-323-5p, eca-miR-324-3p, eca-miR-324-5p, eca-miR-326, eca-miR-328, eca-miR-329a, eca-miR-329b, eca-miR-330, eca-miR-331, eca-miR-335, eca-miR-337-3p, eca-miR-337-5p, eca-miR-338-3p, eca-miR-338-5p, eca-miR-33a, eca-miR-33b, eca-miR-340-3p, eca-miR-340-5p, eca-miR-342-3p, eca-miR-342-5p, eca-miR-345-3p, eca-miR-345-5p, eca-miR-346, eca-miR-34a, eca-miR-34b-3p, eca-miR-34b-5p, eca-miR-34c, eca-miR-350, eca-miR-3548, eca-miR-361-3p, eca-miR-361-5p, eca-miR-3613, eca-miR-362-3p, eca-miR-362-5p, eca-miR-363, eca-miR-365, eca-miR-367, eca-miR-369-3p, eca-miR-369-5p, eca-miR-370, eca-miR-371-3p, eca-miR-371-5p, eca-miR-372, eca-miR-374a, eca-miR-374b, eca-miR-376a, eca-miR-376b, eca-miR-376c, eca-miR-377, eca-miR-378, eca-miR-379, eca-miR-380, eca-miR-381, eca-miR-382, eca-miR-383, eca-miR-384, eca-miR-3958, eca-miR-3959, eca-miR-409-3p, eca-miR-409-5p, eca-miR-410, eca-miR-411, eca-miR-412, eca-miR-421, eca-miR-423-3p, eca-miR-423-5p, eca-miR-424, eca-miR-425, eca-miR-429, eca-miR-431, eca-miR-432, eca-miR-433, eca-miR-448, eca-miR-449a, eca-miR-449b, eca-miR-450a, eca-miR-450b-3p,

eca-miR-450b-5p, eca-miR-450c, eca-miR-451, eca-miR-454, eca-miR-483, eca-miR-485-3p, eca-miR-485-5p, eca-miR-486-3p, eca-miR-486-5p, eca-miR-487a, eca-miR-487b, eca-miR-488, eca-miR-489, eca-miR-490-3p, eca-miR-490-5p, eca-miR-491-3p, eca-miR-491-5p, eca-miR-492, eca-miR-493a, eca-miR-493b, eca-miR-494, eca-miR-495, eca-miR-496, eca-miR-497, eca-miR-499-3p, eca-miR-499-5p, eca-miR-500, eca-miR-501-5p, eca-miR-502-3p, eca-miR-502-5p, eca-miR-503, eca-miR-504, eca-miR-505, eca-miR-506a, eca-miR-507a, eca-miR-507b, eca-miR-508-3p, eca-miR-508-5p, eca-miR-509a-5p, eca-miR-509b, eca-miR-514, eca-miR-514a, eca-miR-514b, eca-miR-532-3p, eca-miR-532-5p, eca-miR-539, eca-miR-541, eca-miR-542-3p, eca-miR-542-5p, eca-miR-543, eca-miR-544, eca-miR-544b, eca-miR-545, eca-miR-551a, eca-miR-551b, eca-miR-568, eca-miR-582-3p, eca-miR-582-5p, eca-miR-590-3p, eca-miR-590-5p, eca-miR-592, eca-miR-598, eca-miR-615-3p, eca-miR-615-5p, eca-miR-628a, eca-miR-632, eca-miR-652, eca-miR-6529, eca-miR-653, eca-miR-655, eca-miR-656, eca-miR-660, eca-miR-664, eca-miR-670, eca-miR-671-3p, eca-miR-671-5p, eca-miR-672, eca-miR-675, eca-miR-676, eca-miR-684, eca-miR-7, eca-miR-703, eca-miR-7035, eca-miR-7045, eca-miR-708, eca-miR-711, eca-miR-7143, eca-miR-7177a, eca-miR-7177b, eca-miR-744, eca-miR-758, eca-miR-761, eca-miR-763, eca-miR-764-3p, eca-miR-764-5p, eca-miR-7667, eca-miR-767-3p, eca-miR-767-5p, eca-miR-769a-3p, eca-miR-769a-5p, eca-miR-769b, eca-miR-770-5p, eca-miR-802, eca-miR-872, eca-miR-873, eca-miR-874, eca-miR-876-3p, eca-miR-876-5p, eca-miR-885-3p, eca-miR-885-5p, eca-miR-889, eca-miR-8908a, eca-miR-8908b, eca-miR-8908c, eca-miR-8908d, eca-miR-8908e, eca-miR-8908f, eca-miR-8908g, eca-miR-8908h, eca-miR-8908i, eca-miR-8908j, eca-miR-8908k, eca-miR-8908l, eca-miR-8908m, eca-miR-8908n, eca-miR-8909, eca-miR-8910, eca-miR-8911, eca-miR-8912, eca-miR-8913, eca-miR-8914, eca-miR-8915, eca-miR-8916, eca-miR-8917, eca-miR-8918, eca-miR-8919, eca-miR-8920, eca-miR-8921, eca-miR-8922, eca-miR-8923, eca-miR-8924, eca-miR-8925, eca-miR-8926, eca-miR-8927, eca-miR-8928, eca-miR-8929, eca-miR-8930, eca-miR-8931, eca-miR-8932, eca-miR-8933, eca-miR-8934, eca-miR-8935, eca-miR-8936, eca-miR-8937, eca-miR-8938, eca-miR-8939, eca-miR-8940, eca-miR-8941, eca-miR-8942, eca-miR-8943, eca-miR-8944, eca-miR-8945, eca-miR-8946, eca-miR-8947, eca-miR-8948, eca-miR-8949, eca-miR-8950, eca-miR-8951, eca-miR-8952, eca-miR-8953, eca-miR-8954, eca-miR-8955, eca-miR-8956, eca-miR-8957, eca-miR-8958, eca-miR-8959, eca-miR-8960, eca-miR-8961, eca-miR-8962, eca-miR-8963, eca-miR-8964, eca-miR-8965, eca-miR-8966, eca-miR-8967, eca-miR-8968, eca-miR-8969, eca-miR-8970, eca-miR-8971, eca-miR-8972, eca-miR-8973, eca-miR-8974, eca-miR-8975, eca-miR-8976, eca-miR-8977, eca-miR-8978, eca-miR-8979, eca-miR-8980, eca-miR-8981, eca-miR-8982, eca-

miR-8983, eca-miR-8984, eca-miR-8985, eca-miR-8986a, eca-miR-8986b, eca-miR-8987, eca-miR-8988, eca-miR-8989, eca-miR-8990, eca-miR-8991, eca-miR-8992, eca-miR-8993, eca-miR-8994, eca-miR-8995, eca-miR-8996, eca-miR-8997, eca-miR-8998, eca-miR-8999, eca-miR-9000, eca-miR-9001, eca-miR-9002, eca-miR-9003, eca-miR-9004, eca-miR-9005, eca-miR-9006, eca-miR-9007, eca-miR-9008, eca-miR-9009, eca-miR-9010, eca-miR-9011, eca-miR-9012, eca-miR-9013, eca-miR-9014, eca-miR-9015, eca-miR-9016, eca-miR-9017, eca-miR-9018, eca-miR-9019, eca-miR-9020, eca-miR-9021, eca-miR-9022, eca-miR-9023, eca-miR-9024, eca-miR-9025, eca-miR-9026, eca-miR-9027, eca-miR-9028, eca-miR-9029, eca-miR-9030, eca-miR-9031, eca-miR-9032, eca-miR-9033, eca-miR-9034, eca-miR-9035, eca-miR-9036, eca-miR-9037, eca-miR-9038, eca-miR-9039, eca-miR-9040, eca-miR-9041, eca-miR-9042, eca-miR-9043, eca-miR-9044, eca-miR-9045, eca-miR-9046, eca-miR-9047, eca-miR-9048, eca-miR-9049, eca-miR-9050, eca-miR-9051, eca-miR-9052, eca-miR-9053, eca-miR-9054, eca-miR-9055, eca-miR-9056, eca-miR-9057, eca-miR-9058a, eca-miR-9058b, eca-miR-9059, eca-miR-9060, eca-miR-9061, eca-miR-9062, eca-miR-9063, eca-miR-9064, eca-miR-9065, eca-miR-9066, eca-miR-9067, eca-miR-9068, eca-miR-9069, eca-miR-9070, eca-miR-9071, eca-miR-9072, eca-miR-9073, eca-miR-9074, eca-miR-9075, eca-miR-9076, eca-miR-9077, eca-miR-9078, eca-miR-9079, eca-miR-9080, eca-miR-9081, eca-miR-9082, eca-miR-9083, eca-miR-9084, eca-miR-9085, eca-miR-9086, eca-miR-9087, eca-miR-9088, eca-miR-9089, eca-miR-9090, eca-miR-9091, eca-miR-9092, eca-miR-9093, eca-miR-9094, eca-miR-9095, eca-miR-9096, eca-miR-9097, eca-miR-9098, eca-miR-9099, eca-miR-9100, eca-miR-9101, eca-miR-9102, eca-miR-9103, eca-miR-9104, eca-miR-9105, eca-miR-9106, eca-miR-9107, eca-miR-9108, eca-miR-9109, eca-miR-9110, eca-miR-9111, eca-miR-9112, eca-miR-9113, eca-miR-9114, eca-miR-9115, eca-miR-9116, eca-miR-9117, eca-miR-9118, eca-miR-9119, eca-miR-9120, eca-miR-9121, eca-miR-9122, eca-miR-9123, eca-miR-9124, eca-miR-9125, eca-miR-9126, eca-miR-9127, eca-miR-9128, eca-miR-9129, eca-miR-9130, eca-miR-9131, eca-miR-9132, eca-miR-9133, eca-miR-9134, eca-miR-9135, eca-miR-9136, eca-miR-9137, eca-miR-9138, eca-miR-9139, eca-miR-9140, eca-miR-9141, eca-miR-9142, eca-miR-9143, eca-miR-9144, eca-miR-9145, eca-miR-9146, eca-miR-9147, eca-miR-9148, eca-miR-9149, eca-miR-9150, eca-miR-9151, eca-miR-9152, eca-miR-9153, eca-miR-9154, eca-miR-9155, eca-miR-9156, eca-miR-9157, eca-miR-9158, eca-miR-9159, eca-miR-9160, eca-miR-9161, eca-miR-9162, eca-miR-9163, eca-miR-9164, eca-miR-9165, eca-miR-9166, eca-miR-9167, eca-miR-9168, eca-miR-9169, eca-miR-9170, eca-miR-9171, eca-miR-9172, eca-miR-9173, eca-miR-9174, eca-miR-9175, eca-miR-9176, eca-miR-9177, eca-miR-9178, eca-miR-9179, eca-miR-9180, eca-miR-9181, eca-miR-9182, eca-miR-9183, eca-

miR-9184, eca-miR-9185, eca-miR-92a, eca-miR-92b, eca-miR-93, eca-miR-95, eca-miR-96, eca-miR-98, eca-miR-99a, eca-miR-99b, eca-miR-9a, eel-miR-11050-3p, eel-miR-11050-5p, eel-miR-11051-5p, eel-miR-11052-3p, eel-miR-11053-3p, eel-miR-11053-5p, eel-miR-11054-3p, eel-miR-11054-5p, eel-miR-11055-3p, eel-miR-11055-5p, eel-miR-11056-3p, eel-miR-11056-5p, eel-miR-11057-3p, eel-miR-11057-5p, eel-miR-11058-5p, eel-miR-11059-3p, eel-miR-11059-5p, eel-miR-11060-3p, eel-miR-11060-5p, eel-miR-11061-3p, eel-miR-11062-3p, eel-miR-11062-5p, eel-miR-11063-3p, eel-miR-11063-5p, eel-miR-11064-3p, eel-miR-11065-3p, eel-miR-11065-5p, eel-miR-7132-3p, eel-miR-7132-5p, eel-miR-7552-2-3p, eel-miR-7552-3p, eel-miR-7552-5p, eel-miR-8160-3p, eel-miR-8160-5p, efu-let-7c, efu-let-7d, efu-let-7e, efu-let-7f, efu-miR-1, efu-miR-10, efu-miR-101, efu-miR-103a, efu-miR-103b, efu-miR-106, efu-miR-107, efu-miR-1185, efu-miR-1193, efu-miR-124, efu-miR-1249, efu-miR-125a, efu-miR-125b, efu-miR-126, efu-miR-127, efu-miR-1271, efu-miR-128a, efu-miR-128b, efu-miR-129a, efu-miR-129b, efu-miR-130, efu-miR-1307, efu-miR-132, efu-miR-133-3p, efu-miR-133-5p, efu-miR-1343, efu-miR-135, efu-miR-136, efu-miR-1388, efu-miR-138a, efu-miR-138b, efu-miR-139, efu-miR-140, efu-miR-141, efu-miR-142, efu-miR-143, efu-miR-145, efu-miR-146, efu-miR-148, efu-miR-149, efu-miR-15, efu-miR-150, efu-miR-151, efu-miR-152, efu-miR-153, efu-miR-154, efu-miR-155, efu-miR-16, efu-miR-17, efu-miR-18, efu-miR-181a, efu-miR-181b, efu-miR-181c, efu-miR-181d, efu-miR-181e, efu-miR-181f, efu-miR-182, efu-miR-1842, efu-miR-185, efu-miR-188, efu-miR-19, efu-miR-191, efu-miR-192, efu-miR-193a, efu-miR-193b, efu-miR-194, efu-miR-196, efu-miR-199, efu-miR-20, efu-miR-200a, efu-miR-200b, efu-miR-200c, efu-miR-202, efu-miR-204, efu-miR-205, efu-miR-206, efu-miR-21, efu-miR-210, efu-miR-211, efu-miR-214, efu-miR-215, efu-miR-218a, efu-miR-218b, efu-miR-219, efu-miR-22, efu-miR-221, efu-miR-222, efu-miR-223, efu-miR-23a, efu-miR-23b, efu-miR-25, efu-miR-2683, efu-miR-26a, efu-miR-26b, efu-miR-26c, efu-miR-27a, efu-miR-27b, efu-miR-28, efu-miR-299, efu-miR-29a, efu-miR-29b, efu-miR-29c, efu-miR-30a, efu-miR-30b, efu-miR-30c, efu-miR-30d, efu-miR-30e, efu-miR-31, efu-miR-320, efu-miR-323, efu-miR-324, efu-miR-33, efu-miR-330, efu-miR-331, efu-miR-335, efu-miR-337, efu-miR-338, efu-miR-339, efu-miR-342, efu-miR-34a, efu-miR-34b, efu-miR-34c, efu-miR-361, efu-miR-365, efu-miR-370, efu-miR-375, efu-miR-376, efu-miR-378, efu-miR-379, efu-miR-381, efu-miR-382, efu-miR-383, efu-miR-3958, efu-miR-409, efu-miR-411, efu-miR-412, efu-miR-423, efu-miR-424, efu-miR-429, efu-miR-449, efu-miR-450, efu-miR-452, efu-miR-455, efu-miR-4667, efu-miR-485, efu-miR-486, efu-miR-487, efu-miR-490, efu-miR-493, efu-miR-494, efu-miR-495, efu-miR-497, efu-miR-499, efu-miR-500, efu-miR-502, efu-miR-503, efu-miR-504, efu-miR-506, efu-

miR-507a, efu-miR-507b, efu-miR-507c, efu-miR-513, efu-miR-532, efu-miR-544, efu-miR-574, efu-miR-582, efu-miR-592, efu-miR-628, efu-miR-652, efu-miR-660, efu-miR-7a, efu-miR-7b, efu-miR-7c, efu-miR-874, efu-miR-8908, efu-miR-8915, efu-miR-9-3p, efu-miR-9-5p, efu-miR-9186a, efu-miR-9186b, efu-miR-9186c, efu-miR-9186d, efu-miR-9186e, efu-miR-9186f, efu-miR-9186g, efu-miR-9186h, efu-miR-9186i, efu-miR-9186j, efu-miR-9186k, efu-miR-9186l, efu-miR-9186m, efu-miR-9186n, efu-miR-9186o, efu-miR-9186p, efu-miR-9186q, efu-miR-9187, efu-miR-9188a, efu-miR-9188b, efu-miR-9190, efu-miR-9191, efu-miR-9192, efu-miR-9193, efu-miR-9194, efu-miR-9195, efu-miR-9196, efu-miR-9197, efu-miR-9198a, efu-miR-9198b, efu-miR-9198c, efu-miR-9198d, efu-miR-9198e, efu-miR-9199, efu-miR-9200a, efu-miR-9200b, efu-miR-9201a, efu-miR-9201b, efu-miR-9202, efu-miR-9203a, efu-miR-9203b, efu-miR-9204, efu-miR-9205, efu-miR-9206, efu-miR-9207, efu-miR-9208, efu-miR-9209a, efu-miR-9209b, efu-miR-9209c, efu-miR-9209d, efu-miR-9210, efu-miR-9211, efu-miR-9212, efu-miR-9213, efu-miR-9214, efu-miR-9215a, efu-miR-9215b, efu-miR-9216, efu-miR-9217, efu-miR-9218, efu-miR-9219, efu-miR-9220, efu-miR-9221, efu-miR-9222, efu-miR-9223a, efu-miR-9223b, efu-miR-9223c, efu-miR-9223d, efu-miR-9223e, efu-miR-9223f, efu-miR-9223g, efu-miR-9223h, efu-miR-9223i, efu-miR-9224, efu-miR-9225, efu-miR-9226, efu-miR-9227, efu-miR-9228, efu-miR-9229a, efu-miR-9229b, efu-miR-9229c, efu-miR-9229d, efu-miR-9229e, efu-miR-9229f, efu-miR-9230a, efu-miR-9230b, efu-miR-9230c, efu-miR-9231, efu-miR-9232, efu-miR-9233, efu-miR-9234a, efu-miR-9234b, efu-miR-9235a, efu-miR-9235b, efu-miR-9236a, efu-miR-9236b, efu-miR-9236c, efu-miR-9237a, efu-miR-9237b, efu-miR-9237c, efu-miR-9238, efu-miR-9239, efu-miR-9240, efu-miR-9241, efu-miR-9242, efu-miR-9243a, efu-miR-9243b, efu-miR-9243c, efu-miR-9244, efu-miR-9245, efu-miR-9246a, efu-miR-9246b, efu-miR-9246c, efu-miR-9247, efu-miR-9248, efu-miR-9249, efu-miR-9250, efu-miR-9251, efu-miR-9252, efu-miR-9253, efu-miR-9254, efu-miR-9255, efu-miR-9256a, efu-miR-9256b, efu-miR-9257, efu-miR-9258, efu-miR-9259, efu-miR-9260, efu-miR-9261, efu-miR-9262, efu-miR-9263, efu-miR-9264, efu-miR-9265, efu-miR-9266, efu-miR-9267, efu-miR-9268, efu-miR-9269, efu-miR-9270, efu-miR-9271, efu-miR-9272, efu-miR-9273, efu-miR-9274, efu-miR-9275, efu-miR-9276, efu-miR-9277, efu-miR-9278, efu-miR-9279a, efu-miR-9279b, efu-miR-9280, efu-miR-9281, efu-miR-9282, efu-miR-9283, efu-miR-9284, efu-miR-9285, efu-miR-9286, efu-miR-9287, efu-miR-9288, efu-miR-9289, efu-miR-9290, efu-miR-9291, efu-miR-9292, efu-miR-9293, efu-miR-9294, efu-miR-9295, efu-miR-9296, efu-miR-9297, efu-miR-9298, efu-miR-9299, efu-miR-92a, efu-miR-92b, efu-miR-92c, efu-miR-93, efu-miR-9300, efu-miR-9301, efu-miR-9302, efu-miR-9303, efu-miR-9304, efu-miR-9305, efu-miR-9306, efu-

miR-9307, efu-miR-9308, efu-miR-9309, efu-miR-9310, efu-miR-9311, efu-miR-9312, efu-miR-9313, efu-miR-9314, efu-miR-9315, efu-miR-9316, efu-miR-9317, efu-miR-9318a, efu-miR-9318b, efu-miR-9319, efu-miR-9320, efu-miR-9321, efu-miR-9322, efu-miR-9323, efu-miR-9324, efu-miR-9325, efu-miR-9326, efu-miR-9327, efu-miR-9328, efu-miR-9329, efu-miR-9330, efu-miR-9331, efu-miR-9332, efu-miR-9333, efu-miR-9334, efu-miR-9335, efu-miR-9336, efu-miR-9337, efu-miR-9338, efu-miR-9339, efu-miR-9340, efu-miR-9341, efu-miR-9342, efu-miR-9343, efu-miR-9344, efu-miR-9345, efu-miR-9346, efu-miR-9347, efu-miR-9348, efu-miR-9349, efu-miR-9350, efu-miR-9351, efu-miR-9352, efu-miR-9353, efu-miR-9354, efu-miR-9355, efu-miR-9356, efu-miR-9357, efu-miR-9358, efu-miR-9359, efu-miR-9360, efu-miR-9361, efu-miR-9362, efu-miR-9363, efu-miR-9364, efu-miR-9365, efu-miR-9366, efu-miR-9367, efu-miR-9368, efu-miR-99a, efu-miR-99b, egr-bantam-3p, egr-bantam-5p, egr-let-7-3p, egr-let-7-5p, egr-miR-1-5p, egr-miR-10227a-3p, egr-miR-10227a-5p, egr-miR-10227b-3p, egr-miR-10227b-5p, egr-miR-10227c-3p, egr-miR-10227c-5p, egr-miR-10227d-3p, egr-miR-10227d-5p, egr-miR-10227e-3p, egr-miR-10227e-5p, egr-miR-10228-3p, egr-miR-10228-5p, egr-miR-10229a-3p, egr-miR-10229a-5p, egr-miR-10229b-3p, egr-miR-10229b-5p, egr-miR-10230-3p, egr-miR-10230-5p, egr-miR-10231-3p, egr-miR-10231-5p, egr-miR-10232-3p, egr-miR-10232-5p, egr-miR-10233-3p, egr-miR-10233-5p, egr-miR-10234-3p, egr-miR-10234-5p, egr-miR-10235-3p, egr-miR-10235-5p, egr-miR-10236-3p, egr-miR-10236-5p, egr-miR-10237-3p, egr-miR-10237-5p, egr-miR-10238-3p, egr-miR-10238-5p, egr-miR-10239-3p, egr-miR-10239-5p, egr-miR-10240-3p, egr-miR-10240-5p, egr-miR-10241-3p, egr-miR-10241-5p, egr-miR-10242-3p, egr-miR-10242-5p, egr-miR-10243-3p, egr-miR-10243-5p, egr-miR-10244-3p, egr-miR-10244-5p, egr-miR-10245-3p, egr-miR-10245-5p, egr-miR-10247-3p, egr-miR-10247-5p, egr-miR-10248-3p, egr-miR-10248-5p, egr-miR-10249-3p, egr-miR-10249-5p, egr-miR-10250-3p, egr-miR-10250-5p, egr-miR-10251-3p, egr-miR-10251-5p, egr-miR-10252-3p, egr-miR-10252-5p, egr-miR-10253-3p, egr-miR-10253-5p, egr-miR-10254-3p, egr-miR-10254-5p, egr-miR-10255-3p, egr-miR-10255-5p, egr-miR-10256-3p, egr-miR-10256-5p, egr-miR-10257-3p, egr-miR-10257-5p, egr-miR-10258-3p, egr-miR-10258-5p, egr-miR-10259-3p, egr-miR-10259-5p, egr-miR-10260-3p, egr-miR-10260-5p, egr-miR-10261-3p, egr-miR-10261-5p, egr-miR-10262-3p, egr-miR-10262-5p, egr-miR-10263-3p, egr-miR-10263-5p, egr-miR-10264-3p, egr-miR-10264-5p, egr-miR-10265-3p, egr-miR-10265-5p, egr-miR-10266-3p, egr-miR-10266-5p, egr-miR-10267-3p, egr-miR-10267-5p, egr-miR-10268-3p, egr-miR-10268-5p, egr-miR-10269-3p, egr-miR-10269-5p, egr-miR-10270-3p, egr-miR-10270-5p, egr-miR-10271-3p, egr-miR-10271-5p, egr-miR-10272-3p, egr-miR-10272-5p, egr-miR-

10273-3p, egr-miR-10273-5p, egr-miR-10274-3p, egr-miR-10274-5p, egr-miR-10275-3p, egr-miR-10275-5p, egr-miR-10276-3p, egr-miR-10276-5p, egr-miR-10277-3p, egr-miR-10277-5p, egr-miR-10278-3p, egr-miR-10278-5p, egr-miR-10279-3p, egr-miR-10279-5p, egr-miR-10280-3p, egr-miR-10280-5p, egr-miR-10281-3p, egr-miR-10281-5p, egr-miR-10282-3p, egr-miR-10282-5p, egr-miR-10283-3p, egr-miR-10283-5p, egr-miR-10284-3p, egr-miR-10284-5p, egr-miR-10285-3p, egr-miR-10285-5p, egr-miR-10286-3p, egr-miR-10286-5p, egr-miR-10287-3p, egr-miR-10287-5p, egr-miR-10288-3p, egr-miR-10288-5p, egr-miR-10289-3p, egr-miR-10289-5p, egr-miR-10290-3p, egr-miR-10290-5p, egr-miR-10291-3p, egr-miR-10291-5p, egr-miR-10292-3p, egr-miR-10292-5p, egr-miR-10293-3p, egr-miR-10293-5p, egr-miR-10450-3p, egr-miR-10450-5p, egr-miR-10a-3p, egr-miR-10a-5p, egr-miR-124a-3p, egr-miR-124a-5p, egr-miR-124b-3p, egr-miR-124b-5p, egr-miR-125-3p, egr-miR-125-5p, egr-miR-133-3p, egr-miR-133-5p, egr-miR-153-3p, egr-miR-153-5p, egr-miR-184-3p, egr-miR-184-5p, egr-miR-190-3p, egr-miR-190-5p, egr-miR-1992-3p, egr-miR-1992-5p, egr-miR-2162-3p, egr-miR-2162-5p, egr-miR-219-3p, egr-miR-219-5p, egr-miR-277a-3p, egr-miR-277b-3p, egr-miR-277b-5p, egr-miR-281-3p, egr-miR-281-5p, egr-miR-2a-3p, egr-miR-2a-5p, egr-miR-2b-3p, egr-miR-2b-5p, egr-miR-2c-3p, egr-miR-2c-5p, egr-miR-2d-3p, egr-miR-2d-5p, egr-miR-307-3p, egr-miR-307-5p, egr-miR-31-3p, egr-miR-31-5p, egr-miR-3479a-3p, egr-miR-3479a-5p, egr-miR-3479b-3p, egr-miR-3479b-5p, egr-miR-36a-3p, egr-miR-36a-5p, egr-miR-36b-3p, egr-miR-36b-5p, egr-miR-4989-3p, egr-miR-4989-5p, egr-miR-4990, egr-miR-4991, egr-miR-61-3p, egr-miR-61-5p, egr-miR-7-3p, egr-miR-7-5p, egr-miR-71-3p, egr-miR-71-5p, egr-miR-745-3p, egr-miR-745-5p, egr-miR-7b-3p, egr-miR-7b-5p, egr-miR-8-3p, egr-miR-8-5p, egr-miR-87-3p, egr-miR-87-5p, egr-miR-9-3p, egr-miR-9-5p, egr-miR-96-3p, egr-miR-96-5p, egu-miR172a, egu-miR172b, egu-miR172c, egu-miR172d, egu-miR172e, egu-miR172f, emu-bantam-3p, emu-bantam-5p, emu-let-7-3p, emu-let-7-5p, emu-miR-1-3p, emu-miR-10-3p, emu-miR-10-5p, emu-miR-10293-3p, emu-miR-10293-5p, emu-miR-124a-3p, emu-miR-124a-5p, emu-miR-124b-3p, emu-miR-124b-5p, emu-miR-125-3p, emu-miR-125-5p, emu-miR-133-3p, emu-miR-133-5p, emu-miR-153-3p, emu-miR-153-5p, emu-miR-184-3p, emu-miR-184-5p, emu-miR-190-3p, emu-miR-190-5p, emu-miR-1992-3p, emu-miR-1992-5p, emu-miR-2162-3p, emu-miR-2162-5p, emu-miR-219-3p, emu-miR-219-5p, emu-miR-277a-3p, emu-miR-277b-3p, emu-miR-281-3p, emu-miR-281-5p, emu-miR-2a-3p, emu-miR-2a-5p, emu-miR-2b-3p, emu-miR-2b-5p, emu-miR-2c-3p, emu-miR-2c-5p, emu-miR-307-3p, emu-miR-307-5p, emu-miR-31-3p, emu-miR-31-5p, emu-miR-3479a-3p, emu-miR-3479a-5p, emu-miR-3479b-3p, emu-miR-3479b-5p, emu-miR-36a-3p, emu-miR-36a-5p, emu-miR-36b-3p, emu-miR-36b-

5p, emu-miR-4989-3p, emu-miR-4989-5p, emu-miR-61-3p, emu-miR-61-5p, emu-miR-7-3p, emu-miR-7-5p, emu-miR-71-3p, emu-miR-71-5p, emu-miR-745-3p, emu-miR-745-5p, emu-miR-8-3p, emu-miR-8-5p, emu-miR-87-3p, emu-miR-87-5p, emu-miR-9-3p, emu-miR-9-5p, emu-miR-96-5p, esi-miR3450-3p, esi-miR3450-5p, esi-miR3451-3p, esi-miR3451-5p, esi-miR3452-3p, esi-miR3452-5p, esi-miR3453-3p, esi-miR3453-5p, esi-miR3454a-3p, esi-miR3454a-5p, esi-miR3454b-3p, esi-miR3454b-5p, esi-miR3454c-3p, esi-miR3454c-5p, esi-miR3454d-3p, esi-miR3454d-5p, esi-miR3454e-3p, esi-miR3454e-5p, esi-miR3454f-3p, esi-miR3454f-5p, esi-miR3454g-3p, esi-miR3454g-5p, esi-miR3455-3p, esi-miR3455-5p, esi-miR3455b-3p, esi-miR3455b-5p, esi-miR3456-3p, esi-miR3456-5p, esi-miR3457-3p, esi-miR3457-5p, esi-miR3458-3p, esi-miR3458-5p, esi-miR3459-3p, esi-miR3459-5p, esi-miR3460-3p, esi-miR3460-5p, esi-miR3461-3p, esi-miR3461-5p, esi-miR3462-3p, esi-miR3462-5p, esi-miR3463-3p, esi-miR3463-5p, esi-miR3464-3p, esi-miR3464-5p, esi-miR3465-3p, esi-miR3465-5p, esi-miR3466-3p, esi-miR3466-5p, esi-miR3467-3p, esi-miR3467-5p, esi-miR3468-3p, esi-miR3468-5p, esi-miR3469-3p, esi-miR3469-5p, esi-miR3469b-3p, esi-miR3469b-5p, esi-miR8618a, esi-miR8618b, esi-miR8619, esi-miR8620, esi-miR8621, esi-miR8622a, esi-miR8622b, esi-miR8622c, esi-miR8623a, esi-miR8623b, esi-miR8623c, esi-miR8623d, esi-miR8624a, esi-miR8624b, esi-miR8625, esi-miR8626, esi-miR8627, esi-miR8628, esi-miR8629, esi-miR8630, esi-miR8631, eun-miR10211a-3p, eun-miR10211a-5p, eun-miR10211b-3p, eun-miR10211b-5p, eun-miR10212-3p, eun-miR10212-5p, eun-miR10213-3p, eun-miR10213-5p, eun-miR10214a-3p, eun-miR10214a-5p, eun-miR10214b-3p, eun-miR10215-3p, eun-miR10216-3p, eun-miR10216-5p, eun-miR10217-3p, eun-miR10217-5p, eun-miR10218-3p, eun-miR10218-5p, eun-miR10219-3p, eun-miR10219-5p, eun-miR10220-3p, eun-miR10220-5p, eun-miR10221-3p, eun-miR10221-5p, eun-miR10222-3p, eun-miR10222-5p, eun-miR10223-3p, eun-miR10223-5p, eun-miR10224-3p, eun-miR159-3p, eun-miR159-5p, eun-miR160-3p, eun-miR160-5p, eun-miR162-3p, eun-miR162-5p, eun-miR166-3p, eun-miR166-5p, eun-miR167a-3p, eun-miR167a-5p, eun-miR167b-3p, eun-miR167b-5p, eun-miR167c-3p, eun-miR167c-5p, eun-miR167d-5p, eun-miR172a-3p, eun-miR172a-5p, eun-miR172b-3p, eun-miR172b-5p, eun-miR172c-3p, eun-miR172c-5p, eun-miR395-3p, eun-miR395-5p, eun-miR396a-3p, eun-miR396a-5p, eun-miR396b-3p, eun-miR396b-5p, eun-miR397a-3p, eun-miR397a-5p, eun-miR397b-3p, eun-miR397b-5p, eun-miR482a-3p, eun-miR482a-5p, eun-miR482b-3p, eun-miR482b-5p, eun-miR482c-3p, eun-miR482c-5p, eun-miR530-3p, eun-miR530-5p, eun-miR535a-3p, eun-miR535a-5p, eun-miR535b-3p, eun-miR535b-5p, eun-miR827-3p, eun-miR827-5p, far-miR1119, far-miR1122, far-miR1134, far-miR156a, far-miR156b, far-

miR159, far-miR160, far-miR164a, far-miR164b, far-miR166, far-miR169, far-miR171, far-miR396, far-miR437, far-miR529, fhe-bantam, fhe-let-7, fhe-miR-1, fhe-miR-10, fhe-miR-11584, fhe-miR-11585, fhe-miR-11586, fhe-miR-11587, fhe-miR-124, fhe-miR-125a, fhe-miR-125b, fhe-miR-190, fhe-miR-2162, fhe-miR-219, fhe-miR-277, fhe-miR-2a, fhe-miR-2b, fhe-miR-2c, fhe-miR-2d, fhe-miR-2e, fhe-miR-2f, fhe-miR-307, fhe-miR-31, fhe-miR-3479, fhe-miR-36a, fhe-miR-36b, fhe-miR-46, fhe-miR-61, fhe-miR-7, fhe-miR-71a, fhe-miR-71b, fhe-miR-745a, fhe-miR-745b, fhe-miR-750, fhe-miR-8, fhe-miR-87, fhe-miR-9, fhe-miR-96, fru-let-7a, fru-let-7b, fru-let-7d, fru-let-7e, fru-let-7g, fru-let-7h, fru-let-7i, fru-let-7j, fru-miR-1, fru-miR-100, fru-miR-101a, fru-miR-101b, fru-miR-103, fru-miR-107, fru-miR-10b, fru-miR-10c, fru-miR-10d, fru-miR-122, fru-miR-124, fru-miR-125a, fru-miR-125b, fru-miR-126, fru-miR-128, fru-miR-129, fru-miR-130, fru-miR-132, fru-miR-133, fru-miR-135a, fru-miR-135b, fru-miR-137, fru-miR-138, fru-miR-140, fru-miR-142, fru-miR-144, fru-miR-148, fru-miR-152, fru-miR-153a, fru-miR-153b, fru-miR-15a, fru-miR-15b, fru-miR-16, fru-miR-17, fru-miR-18, fru-miR-181a-3p, fru-miR-181a-5p, fru-miR-181b, fru-miR-182, fru-miR-183, fru-miR-184, fru-miR-187, fru-miR-190, fru-miR-192, fru-miR-193, fru-miR-194, fru-miR-196a, fru-miR-196b, fru-miR-199, fru-miR-19a, fru-miR-19b, fru-miR-20, fru-miR-200a, fru-miR-200b, fru-miR-202, fru-miR-203, fru-miR-204a, fru-miR-205, fru-miR-21, fru-miR-210, fru-miR-212, fru-miR-214, fru-miR-216a, fru-miR-216b, fru-miR-217, fru-miR-218a, fru-miR-218b, fru-miR-219, fru-miR-221, fru-miR-222, fru-miR-223, fru-miR-22a, fru-miR-22b, fru-miR-23a, fru-miR-23b, fru-miR-24-3p, fru-miR-24-5p, fru-miR-25, fru-miR-26, fru-miR-27b, fru-miR-27c, fru-miR-27e, fru-miR-29a, fru-miR-29b, fru-miR-301, fru-miR-30b, fru-miR-30c, fru-miR-30d, fru-miR-338, fru-miR-365, fru-miR-375, fru-miR-429, fru-miR-455, fru-miR-458, fru-miR-460, fru-miR-489, fru-miR-7, fru-miR-9, fru-miR-92, fru-miR-96, fve-miR11283, fve-miR11284, fve-miR11285, fve-miR11286, fve-miR11287, fve-miR11288a, fve-miR11288b, fve-miR11288c-3p, fve-miR11288c-5p, fve-miR11288d, fve-miR11288e, fve-miR11289, fve-miR11290, fve-miR11291, fve-miR11292, fve-miR11293, fve-miR11294, fve-miR11295, fve-miR11296, fve-miR11297, fve-miR11298, fve-miR11299, fve-miR11300, fve-miR11301, fve-miR11302, fve-miR11303, fve-miR11304, fve-miR11305, fve-miR11306, fve-miR11307, fve-miR11308, fve-miR11309, fve-miR11310, fve-miR11311, fve-miR11312, fve-miR11313, fve-miR11314, fve-miR11315, fve-miR1511, fve-miR156a, fve-miR156b, fve-miR156c, fve-miR156d, fve-miR156e, fve-miR156f, fve-miR156g-3p, fve-miR156g-5p, fve-miR156h, fve-miR156i, fve-miR156j, fve-miR159a-3p, fve-miR159a-5p, fve-miR159b, fve-miR159c, fve-miR160a, fve-miR160b, fve-miR162-3p, fve-miR162-5p, fve-miR164a-3p,

fve-miR164a-5p, fve-miR164b, fve-miR164c, fve-miR166a, fve-miR166b, fve-miR166c, fve-miR166d-3p, fve-miR166d-5p, fve-miR166e, fve-miR166f, fve-miR167a, fve-miR167b, fve-miR167c, fve-miR167d, fve-miR168-3p, fve-miR168-5p, fve-miR169a, fve-miR169b, fve-miR169c, fve-miR169d, fve-miR169e, fve-miR169f, fve-miR171a, fve-miR171b, fve-miR171c-3p, fve-miR171c-5p, fve-miR171d, fve-miR171e, fve-miR171f-3p, fve-miR171f-5p, fve-miR171g, fve-miR171h, fve-miR172a, fve-miR172b, fve-miR172c, fve-miR2109, fve-miR2111a, fve-miR2111b-3p, fve-miR2111b-5p, fve-miR2111c, fve-miR319, fve-miR3627a, fve-miR3627b, fve-miR390a, fve-miR390b, fve-miR393a, fve-miR393b, fve-miR394, fve-miR396a-3p, fve-miR396a-5p, fve-miR396b-3p, fve-miR396b-5p, fve-miR396c-3p, fve-miR396c-5p, fve-miR396d, fve-miR396e, fve-miR397, fve-miR399a, fve-miR399b, fve-miR408, fve-miR477a, fve-miR477b, fve-miR482a, fve-miR482b, fve-miR482c, fve-miR482d, fve-miR5225, fve-miR530, fve-miR535a, fve-miR535b, fve-miR827, fve-miR845, gar-miR2947, gga-let-7a-2-3p, gga-let-7a-3p, gga-let-7a-5p, gga-let-7b, gga-let-7c-3p, gga-let-7c-5p, gga-let-7d, gga-let-7f-3p, gga-let-7f-5p, gga-let-7g-3p, gga-let-7g-5p, gga-let-7i, gga-let-7j-3p, gga-let-7j-5p, gga-let-7k-3p, gga-let-7k-5p, gga-let-7l-3p, gga-let-7l-5p, gga-miR-100-3p, gga-miR-100-5p, gga-miR-101-1-5p, gga-miR-101-2-5p, gga-miR-101-3p, gga-miR-103-1-5p, gga-miR-103-2-5p, gga-miR-103-3p, gga-miR-10585-3p, gga-miR-10585-5p, gga-miR-106-3p, gga-miR-106-5p, gga-miR-107-3p, gga-miR-107-5p, gga-miR-10a-3p, gga-miR-10a-5p, gga-miR-10b-3p, gga-miR-10b-5p, gga-miR-10c-3p, gga-miR-10c-5p, gga-miR-122-3p, gga-miR-122-5p, gga-miR-12207-3p, gga-miR-12207-5p, gga-miR-12208-3p, gga-miR-12208-5p, gga-miR-12209-3p, gga-miR-12209-5p, gga-miR-12210-3p, gga-miR-12210-5p, gga-miR-12211-3p, gga-miR-12211-5p, gga-miR-12212-5p, gga-miR-12213-3p, gga-miR-12213-5p, gga-miR-12214-3p, gga-miR-12214-5p, gga-miR-12215-5p, gga-miR-12216-3p, gga-miR-12216-5p, gga-miR-12217-3p, gga-miR-12218-3p, gga-miR-12218-5p, gga-miR-12219-3p, gga-miR-12219-5p, gga-miR-12220-3p, gga-miR-12220-5p, gga-miR-12221-2-3p, gga-miR-12221-3p, gga-miR-12221-5p, gga-miR-12222-3p, gga-miR-12222-5p, gga-miR-12223-3p, gga-miR-12223-5p, gga-miR-12224-3p, gga-miR-12224-5p, gga-miR-12225-3p, gga-miR-12225-5p, gga-miR-12226-3p, gga-miR-12226-5p, gga-miR-12227-3p, gga-miR-12227-5p, gga-miR-12228-3p, gga-miR-12228-5p, gga-miR-12229-3p, gga-miR-12229-5p, gga-miR-12230-5p, gga-miR-12231-3p, gga-miR-12231-5p, gga-miR-12232-3p, gga-miR-12232-5p, gga-miR-12233-3p, gga-miR-12233-5p, gga-miR-12234-3p, gga-miR-12234-5p, gga-miR-12235-3p, gga-miR-12235-5p, gga-miR-12236-3p, gga-miR-12236-5p, gga-miR-12237-3p, gga-miR-12237-5p, gga-miR-12238-3p, gga-miR-12239-3p, gga-miR-12239-5p, gga-miR-12240-3p, gga-miR-12240-5p, gga-miR-12241-3p,

gga-miR-12242-3p, gga-miR-12242-5p, gga-miR-12243-3p, gga-miR-12243-5p, gga-miR-12244-5p, gga-miR-12245-3p, gga-miR-12245-5p, gga-miR-12246-3p, gga-miR-12246-5p, gga-miR-12247-3p, gga-miR-12247-5p, gga-miR-12248-3p, gga-miR-12248-5p, gga-miR-12249-3p, gga-miR-12249-5p, gga-miR-12250-3p, gga-miR-12250-5p, gga-miR-12251-3p, gga-miR-12251-5p, gga-miR-12252-3p, gga-miR-12252-5p, gga-miR-12253-3p, gga-miR-12253-5p, gga-miR-12254-3p, gga-miR-12254-5p, gga-miR-12255-3p, gga-miR-12255-5p, gga-miR-12256-3p, gga-miR-12256-5p, gga-miR-12257-3p, gga-miR-12257-5p, gga-miR-12258-3p, gga-miR-12258-5p, gga-miR-12259-3p, gga-miR-12259-5p, gga-miR-12260-3p, gga-miR-12260-5p, gga-miR-12261-3p, gga-miR-12261-5p, gga-miR-12262-5p, gga-miR-12263-3p, gga-miR-12263-5p, gga-miR-12264-3p, gga-miR-12264-5p, gga-miR-12265-3p, gga-miR-12265-5p, gga-miR-12266-3p, gga-miR-12266-5p, gga-miR-12267-3p, gga-miR-12267-5p, gga-miR-12268-5p, gga-miR-12269-3p, gga-miR-12269-5p, gga-miR-12270-3p, gga-miR-12270-5p, gga-miR-12271-3p, gga-miR-12271-5p, gga-miR-12272-3p, gga-miR-12272-5p, gga-miR-12273-3p, gga-miR-12273-5p, gga-miR-12274-3p, gga-miR-12274-5p, gga-miR-12275-3p, gga-miR-12275-5p, gga-miR-12276-3p, gga-miR-12276-5p, gga-miR-12277-3p, gga-miR-12277-5p, gga-miR-12278-3p, gga-miR-12278-5p, gga-miR-12279-3p, gga-miR-12279-5p, gga-miR-12280-3p, gga-miR-12280-5p, gga-miR-12281-3p, gga-miR-12282-3p, gga-miR-12282-5p, gga-miR-12283-3p, gga-miR-12283-5p, gga-miR-12284-3p, gga-miR-12284-5p, gga-miR-12285-3p, gga-miR-12285-5p, gga-miR-12286-3p, gga-miR-12286-5p, gga-miR-12287-5p, gga-miR-12288-3p, gga-miR-12288-5p, gga-miR-12289-3p, gga-miR-12289-5p, gga-miR-12290-3p, gga-miR-12290-5p, gga-miR-12291-3p, gga-miR-12292-3p, gga-miR-12292-5p, gga-miR-12293-3p, gga-miR-12293-5p, gga-miR-12294-3p, gga-miR-12294-5p, gga-miR-12295-3p, gga-miR-12295-5p, gga-miR-122b, gga-miR-122b-3p, gga-miR-122b-5p, gga-miR-124a-3p, gga-miR-124a-5p, gga-miR-124b, gga-miR-124c-3p, gga-miR-124c-5p, gga-miR-125b-3p, gga-miR-125b-5p, gga-miR-126-3p, gga-miR-126-5p, gga-miR-128-1-5p, gga-miR-128-2-5p, gga-miR-128-3p, gga-miR-129-1-3p, gga-miR-129-3p, gga-miR-129-5p, gga-miR-1306-3p, gga-miR-1306-5p, gga-miR-130a-3p, gga-miR-130a-5p, gga-miR-130b-3p, gga-miR-130b-5p, gga-miR-130c-3p, gga-miR-130c-5p, gga-miR-1329-3p, gga-miR-1329-5p, gga-miR-132a-3p, gga-miR-132a-5p, gga-miR-132b-3p, gga-miR-132b-5p, gga-miR-132c-3p, gga-miR-132c-5p, gga-miR-133a-3p, gga-miR-133a-5p, gga-miR-133b, gga-miR-133c-3p, gga-miR-133c-5p, gga-miR-1354, gga-miR-135a-1-3p, gga-miR-135a-2-3p, gga-miR-135a-3-3p, gga-miR-135a-5p, gga-miR-135b, gga-miR-137-3p, gga-miR-137-5p, gga-miR-138-1-3p, gga-miR-138-2-3p, gga-miR-138-5p, gga-miR-1388a-3p, gga-miR-1388a-5p, gga-miR-1388b-3p, gga-miR-1388b-5p, gga-miR-1397-3p,

gga-miR-1397-5p, gga-miR-140-3p, gga-miR-140-5p, gga-miR-1416-3p, gga-miR-1416-5p, gga-miR-142-3p, gga-miR-142-5p, gga-miR-143-3p, gga-miR-143-5p, gga-miR-1434, gga-miR-144-3p, gga-miR-144-5p, gga-miR-145-3p, gga-miR-145-5p, gga-miR-1451-3p, gga-miR-1451-5p, gga-miR-1452, gga-miR-1453, gga-miR-1454, gga-miR-1456-3p, gga-miR-1456-5p, gga-miR-1457, gga-miR-1458, gga-miR-1459, gga-miR-1460, gga-miR-1462-3p, gga-miR-1462-5p, gga-miR-1463, gga-miR-1464, gga-miR-1465, gga-miR-1466, gga-miR-1467-3p, gga-miR-1467-5p, gga-miR-146a-3p, gga-miR-146a-5p, gga-miR-146b-3p, gga-miR-146b-5p, gga-miR-146c-3p, gga-miR-146c-5p, gga-miR-147, gga-miR-148a-3p, gga-miR-148a-5p, gga-miR-148b-3p, gga-miR-148b-5p, gga-miR-153-3p, gga-miR-153-5p, gga-miR-155, gga-miR-1550-3p, gga-miR-1550-5p, gga-miR-1551-3p, gga-miR-1551-5p, gga-miR-1552-3p, gga-miR-1552-5p, gga-miR-1553-3p, gga-miR-1553-5p, gga-miR-1554, gga-miR-1555-3p, gga-miR-1555-5p, gga-miR-1556, gga-miR-1557, gga-miR-1558, gga-miR-1559-3p, gga-miR-1559-5p, gga-miR-1560-3p, gga-miR-1560-5p, gga-miR-1561, gga-miR-1562-3p, gga-miR-1562-5p, gga-miR-1563, gga-miR-1564-3p, gga-miR-1564-5p, gga-miR-1565, gga-miR-1567, gga-miR-1568, gga-miR-1569, gga-miR-1570, gga-miR-1571, gga-miR-1572, gga-miR-1573, gga-miR-1574-3p, gga-miR-1574-5p, gga-miR-1575, gga-miR-1576, gga-miR-1577, gga-miR-1578, gga-miR-1579, gga-miR-1580, gga-miR-1581, gga-miR-1582, gga-miR-1583, gga-miR-1584, gga-miR-1585, gga-miR-1586, gga-miR-1587, gga-miR-1588, gga-miR-1589, gga-miR-1590, gga-miR-1591-3p, gga-miR-1591-5p, gga-miR-1592, gga-miR-1593, gga-miR-1594, gga-miR-1595-3p, gga-miR-1595-5p, gga-miR-1596-3p, gga-miR-1596-5p, gga-miR-1597-3p, gga-miR-1597-5p, gga-miR-1598, gga-miR-1599, gga-miR-15a, gga-miR-15b-3p, gga-miR-15b-5p, gga-miR-15c-3p, gga-miR-15c-5p, gga-miR-16-1-3p, gga-miR-16-2-3p, gga-miR-16-5p, gga-miR-1600, gga-miR-1601, gga-miR-1602, gga-miR-1603, gga-miR-1604, gga-miR-1605, gga-miR-1606, gga-miR-1607, gga-miR-1608, gga-miR-1609, gga-miR-1610, gga-miR-1611, gga-miR-1612, gga-miR-1613, gga-miR-1614-3p, gga-miR-1614-5p, gga-miR-1615, gga-miR-1616, gga-miR-1617, gga-miR-1618-3p, gga-miR-1618-5p, gga-miR-1619, gga-miR-1620, gga-miR-1621-3p, gga-miR-1621-5p, gga-miR-1622, gga-miR-1623, gga-miR-1624, gga-miR-1625-3p, gga-miR-1625-5p, gga-miR-1626-3p, gga-miR-1626-5p, gga-miR-1627-3p, gga-miR-1627-5p, gga-miR-1628, gga-miR-1629, gga-miR-1630, gga-miR-1631, gga-miR-1632-3p, gga-miR-1632-5p, gga-miR-1633, gga-miR-1634, gga-miR-1635, gga-miR-1636, gga-miR-1637, gga-miR-1638, gga-miR-1639, gga-miR-1640, gga-miR-1641, gga-miR-1642, gga-miR-1643-3p, gga-miR-1643-5p, gga-miR-1644, gga-miR-1645, gga-miR-1646, gga-miR-1647, gga-miR-1648-3p, gga-miR-1648-5p, gga-miR-1649-3p, gga-miR-1649-5p, gga-miR-1650, gga-miR-1651-

3p, gga-miR-1651-5p, gga-miR-1652, gga-miR-1653, gga-miR-1654, gga-miR-1655-3p, gga-miR-1655-5p, gga-miR-1656, gga-miR-1657, gga-miR-1658-3p, gga-miR-1658-5p, gga-miR-1659, gga-miR-1660, gga-miR-1661, gga-miR-1662, gga-miR-1663-3p, gga-miR-1663-5p, gga-miR-1664-3p, gga-miR-1664-5p, gga-miR-1665, gga-miR-1666, gga-miR-1667-3p, gga-miR-1667-5p, gga-miR-1668-3p, gga-miR-1668-5p, gga-miR-1669, gga-miR-1670, gga-miR-1671, gga-miR-1672, gga-miR-1673, gga-miR-1674, gga-miR-1675, gga-miR-1676-3p, gga-miR-1676-5p, gga-miR-1677-3p, gga-miR-1677-5p, gga-miR-1678, gga-miR-1679, gga-miR-1680-3p, gga-miR-1680-5p, gga-miR-1681, gga-miR-1682, gga-miR-1683, gga-miR-1684a-3p, gga-miR-1684a-5p, gga-miR-1684b-3p, gga-miR-1685-3p, gga-miR-1685-5p, gga-miR-1686, gga-miR-1687-3p, gga-miR-1687-5p, gga-miR-1688, gga-miR-1689-3p, gga-miR-1689-5p, gga-miR-1690-5p, gga-miR-1691, gga-miR-1692, gga-miR-1693, gga-miR-1694, gga-miR-1695, gga-miR-1696, gga-miR-1697, gga-miR-1698, gga-miR-1699, gga-miR-16c-3p, gga-miR-16c-5p, gga-miR-17-3p, gga-miR-17-5p, gga-miR-1700, gga-miR-1701, gga-miR-1702, gga-miR-1703-3p, gga-miR-1703-5p, gga-miR-1704, gga-miR-1705, gga-miR-1706, gga-miR-1707, gga-miR-1708, gga-miR-1709, gga-miR-1710, gga-miR-1711, gga-miR-1712-3p, gga-miR-1712-5p, gga-miR-1713, gga-miR-1714, gga-miR-1715-3p, gga-miR-1715-5p, gga-miR-1716, gga-miR-1717, gga-miR-1718, gga-miR-1719, gga-miR-1720-3p, gga-miR-1720-5p, gga-miR-1721, gga-miR-1722-3p, gga-miR-1722-5p, gga-miR-1723, gga-miR-1724, gga-miR-1725, gga-miR-1726, gga-miR-1727, gga-miR-1728-3p, gga-miR-1728-5p, gga-miR-1729-3p, gga-miR-1729-5p, gga-miR-1730-3p, gga-miR-1730-5p, gga-miR-1731-3p, gga-miR-1731-5p, gga-miR-1732, gga-miR-1733, gga-miR-1734, gga-miR-1735, gga-miR-1736-3p, gga-miR-1736-5p, gga-miR-1737, gga-miR-1738, gga-miR-1739, gga-miR-1740-3p, gga-miR-1740-5p, gga-miR-1741, gga-miR-1742, gga-miR-1743, gga-miR-1744-3p, gga-miR-1744-5p, gga-miR-1745, gga-miR-1746, gga-miR-1747-3p, gga-miR-1747-5p, gga-miR-1748, gga-miR-1749-3p, gga-miR-1749-5p, gga-miR-1750, gga-miR-1751-5p, gga-miR-1752, gga-miR-1753, gga-miR-1754-3p, gga-miR-1754-5p, gga-miR-1755, gga-miR-1756a, gga-miR-1756b, gga-miR-1757, gga-miR-1758, gga-miR-1759-3p, gga-miR-1759-5p, gga-miR-1760, gga-miR-1761, gga-miR-1762, gga-miR-1763, gga-miR-1763b-3p, gga-miR-1763b-5p, gga-miR-1764-3p, gga-miR-1764-5p, gga-miR-1765, gga-miR-1766, gga-miR-1767, gga-miR-1768, gga-miR-1769-3p, gga-miR-1769-5p, gga-miR-1770, gga-miR-1771, gga-miR-1772-3p, gga-miR-1772-5p, gga-miR-1773-3p, gga-miR-1773-5p, gga-miR-1774, gga-miR-1775-3p, gga-miR-1775-5p, gga-miR-1776, gga-miR-1777, gga-miR-1778, gga-miR-1779, gga-miR-1780, gga-miR-1781-3p, gga-miR-1781-5p, gga-miR-1782, gga-miR-1783, gga-miR-1784-5p, gga-miR-1784b-3p, gga-miR-1784b-

5p, gga-miR-1785, gga-miR-1786, gga-miR-1787, gga-miR-1788-3p, gga-miR-1788-5p, gga-miR-1789, gga-miR-1790, gga-miR-1791-3p, gga-miR-1791-5p, gga-miR-1792, gga-miR-1793, gga-miR-1794, gga-miR-1795, gga-miR-1796, gga-miR-1797, gga-miR-1798-3p, gga-miR-1798-5p, gga-miR-1799, gga-miR-1800, gga-miR-1801, gga-miR-1802, gga-miR-1803, gga-miR-1804, gga-miR-1805-3p, gga-miR-1805-5p, gga-miR-1806, gga-miR-1807, gga-miR-1808, gga-miR-1809, gga-miR-1811, gga-miR-1812-3p, gga-miR-1812-5p, gga-miR-1813, gga-miR-1814, gga-miR-1815, gga-miR-1816, gga-miR-181a-3p, gga-miR-181a-5p, gga-miR-181b-1-3p, gga-miR-181b-2-3p, gga-miR-181b-5p, gga-miR-182-3p, gga-miR-182-5p, gga-miR-183, gga-miR-184-3p, gga-miR-184-5p, gga-miR-1845, gga-miR-184b-3p, gga-miR-184b-5p, gga-miR-187-3p, gga-miR-187-5p, gga-miR-18a-3p, gga-miR-18a-5p, gga-miR-18b-3p, gga-miR-18b-5p, gga-miR-190a-3p, gga-miR-190a-5p, gga-miR-190b-3p, gga-miR-190b-5p, gga-miR-191-3p, gga-miR-191-5p, gga-miR-193a-3p, gga-miR-193a-5p, gga-miR-193b-3p, gga-miR-193b-5p, gga-miR-194, gga-miR-196-1-3p, gga-miR-196-2-3p, gga-miR-196-5p, gga-miR-199-3p, gga-miR-199-5p, gga-miR-199b, gga-miR-19a-3p, gga-miR-19a-5p, gga-miR-19b-3p, gga-miR-19b-5p, gga-miR-1a-1-5p, gga-miR-1a-2-5p, gga-miR-1a-3p, gga-miR-1b-3p, gga-miR-1b-5p, gga-miR-1c, gga-miR-200a-3p, gga-miR-200a-5p, gga-miR-200b-3p, gga-miR-200b-5p, gga-miR-202-3p, gga-miR-202-5p, gga-miR-203a, gga-miR-203b-3p, gga-miR-204, gga-miR-205a, gga-miR-205b, gga-miR-205c-3p, gga-miR-205c-5p, gga-miR-206, gga-miR-20a-3p, gga-miR-20a-5p, gga-miR-20b-3p, gga-miR-20b-5p, gga-miR-21-3p, gga-miR-21-5p, gga-miR-210a-3p, gga-miR-210a-5p, gga-miR-210b-3p, gga-miR-210b-5p, gga-miR-211, gga-miR-212-3p, gga-miR-212-5p, gga-miR-2126, gga-miR-2127, gga-miR-2128, gga-miR-2129, gga-miR-2130, gga-miR-2131-3p, gga-miR-2131-5p, gga-miR-214, gga-miR-214b-3p, gga-miR-214b-5p, gga-miR-215-3p, gga-miR-215-5p, gga-miR-216a, gga-miR-216b, gga-miR-216c, gga-miR-217-3p, gga-miR-217-5p, gga-miR-218-3p, gga-miR-218-5p, gga-miR-2184a-3p, gga-miR-2184a-5p, gga-miR-2184b-3p, gga-miR-2184b-5p, gga-miR-2188-3p, gga-miR-2188-5p, gga-miR-219a, gga-miR-219b, gga-miR-22-3p, gga-miR-22-5p, gga-miR-221-3p, gga-miR-221-5p, gga-miR-222a, gga-miR-222b-3p, gga-miR-222b-5p, gga-miR-223, gga-miR-23b-3p, gga-miR-23b-5p, gga-miR-24-3p, gga-miR-24-5p, gga-miR-26a-2-5p, gga-miR-26a-3p, gga-miR-26a-5p, gga-miR-27b-3p, gga-miR-27b-5p, gga-miR-2954, gga-miR-2984-3p, gga-miR-2984-5p, gga-miR-2985-2-3p, gga-miR-2985-3p, gga-miR-2985-5p, gga-miR-29a-3p, gga-miR-29a-5p, gga-miR-29b-1-5p, gga-miR-29b-2-5p, gga-miR-29b-3p, gga-miR-29c-3p, gga-miR-29c-5p, gga-miR-301a-3p, gga-miR-301a-5p, gga-miR-301b-3p, gga-miR-301b-5p, gga-miR-302a, gga-miR-302b-3p, gga-miR-302b-5p, gga-miR-302c-3p, gga-miR-302c-5p, gga-miR-302d, gga-miR-3064-3p,

gga-miR-3064-5p, gga-miR-30a-3p, gga-miR-30a-5p, gga-miR-30b-3p, gga-miR-30b-5p, gga-miR-30c-1-3p, gga-miR-30c-2-3p, gga-miR-30c-5p, gga-miR-30d, gga-miR-30e-3p, gga-miR-30e-5p, gga-miR-31-3p, gga-miR-31-5p, gga-miR-32-3p, gga-miR-32-5p, gga-miR-33-2-5p, gga-miR-33-3p, gga-miR-33-5p, gga-miR-338-3p, gga-miR-338-5p, gga-miR-34a-3p, gga-miR-34a-5p, gga-miR-34b-3p, gga-miR-34b-5p, gga-miR-34c-3p, gga-miR-34c-5p, gga-miR-3523, gga-miR-3524a, gga-miR-3524b-3p, gga-miR-3525, gga-miR-3526, gga-miR-3528, gga-miR-3529, gga-miR-3530-3p, gga-miR-3530-5p, gga-miR-3531-3p, gga-miR-3531-5p, gga-miR-3532-3p, gga-miR-3532-5p, gga-miR-3533, gga-miR-3534, gga-miR-3535, gga-miR-3536, gga-miR-3537, gga-miR-3538, gga-miR-3539, gga-miR-3540, gga-miR-3594-3p, gga-miR-3594-5p, gga-miR-363-3p, gga-miR-363-5p, gga-miR-365-1-5p, gga-miR-365-2-5p, gga-miR-365-3p, gga-miR-365b-5p, gga-miR-367, gga-miR-375, gga-miR-383-3p, gga-miR-383-5p, gga-miR-425-3p, gga-miR-425-5p, gga-miR-429-3p, gga-miR-429-5p, gga-miR-449a, gga-miR-449b-3p, gga-miR-449b-5p, gga-miR-449c-3p, gga-miR-449c-5p, gga-miR-449d-3p, gga-miR-449d-5p, gga-miR-451, gga-miR-454-3p, gga-miR-454-5p, gga-miR-455-3p, gga-miR-455-5p, gga-miR-456-3p, gga-miR-456-5p, gga-miR-458a-3p, gga-miR-458a-5p, gga-miR-458b-3p, gga-miR-458b-5p, gga-miR-460a-3p, gga-miR-460a-5p, gga-miR-460b-3p, gga-miR-460b-5p, gga-miR-466, gga-miR-4732-5p, gga-miR-489-3p, gga-miR-489-5p, gga-miR-490-3p, gga-miR-490-5p, gga-miR-499-3p, gga-miR-499-5p, gga-miR-551-3p, gga-miR-551-5p, gga-miR-6516-3p, gga-miR-6516-5p, gga-miR-6542-3p, gga-miR-6542-5p, gga-miR-6543-3p, gga-miR-6543-5p, gga-miR-6544-3p, gga-miR-6544-5p, gga-miR-6545-3p, gga-miR-6545-5p, gga-miR-6546-3p, gga-miR-6546-5p, gga-miR-6547-3p, gga-miR-6547-5p, gga-miR-6548-3p, gga-miR-6548-5p, gga-miR-6549-3p, gga-miR-6549-5p, gga-miR-6550-3p, gga-miR-6550-5p, gga-miR-6551-3p, gga-miR-6551-5p, gga-miR-6552-3p, gga-miR-6552-5p, gga-miR-6553-3p, gga-miR-6553-5p, gga-miR-6554-3p, gga-miR-6554-5p, gga-miR-6555-3p, gga-miR-6555-5p, gga-miR-6556-3p, gga-miR-6556-5p, gga-miR-6557-3p, gga-miR-6557-5p, gga-miR-6558-3p, gga-miR-6558-5p, gga-miR-6559-3p, gga-miR-6559-5p, gga-miR-6560-3p, gga-miR-6560-5p, gga-miR-6561-3p, gga-miR-6561-5p, gga-miR-6562-3p, gga-miR-6562-5p, gga-miR-6563-3p, gga-miR-6563-5p, gga-miR-6564-3p, gga-miR-6564-5p, gga-miR-6565-3p, gga-miR-6565-5p, gga-miR-6566-3p, gga-miR-6566-5p, gga-miR-6567-3p, gga-miR-6567-5p, gga-miR-6568-3p, gga-miR-6568-5p, gga-miR-6569-3p, gga-miR-6569-5p, gga-miR-6570-3p, gga-miR-6570-5p, gga-miR-6571-3p, gga-miR-6571-5p, gga-miR-6572-3p, gga-miR-6572-5p, gga-miR-6573-3p, gga-miR-6573-5p, gga-miR-6574-3p, gga-miR-6574-5p, gga-miR-6575-3p, gga-miR-6575-5p, gga-miR-6576-3p, gga-miR-6576-5p, gga-miR-6577-3p, gga-miR-

6577-5p, gga-miR-6578-3p, gga-miR-6578-5p, gga-miR-6579-3p, gga-miR-6579-5p, gga-miR-6580-3p, gga-miR-6580-5p, gga-miR-6581-3p, gga-miR-6581-5p, gga-miR-6582-3p, gga-miR-6582-5p, gga-miR-6583-5p, gga-miR-6584-5p, gga-miR-6585-5p, gga-miR-6586-5p, gga-miR-6587-3p, gga-miR-6587-5p, gga-miR-6588-3p, gga-miR-6589-5p, gga-miR-6590-3p, gga-miR-6590-5p, gga-miR-6591-3p, gga-miR-6592-3p, gga-miR-6593-3p, gga-miR-6593-5p, gga-miR-6594-5p, gga-miR-6595-5p, gga-miR-6596-3p, gga-miR-6596-5p, gga-miR-6597-3p, gga-miR-6598-5p, gga-miR-6599-3p, gga-miR-6599-5p, gga-miR-6600-3p, gga-miR-6601-3p, gga-miR-6602-5p, gga-miR-6603-3p, gga-miR-6604-5p, gga-miR-6605-5p, gga-miR-6606-5p, gga-miR-6607-5p, gga-miR-6608-3p, gga-miR-6608-5p, gga-miR-6609-3p, gga-miR-6610-3p, gga-miR-6611-5p, gga-miR-6612-5p, gga-miR-6613-3p, gga-miR-6614-3p, gga-miR-6615-3p, gga-miR-6615-5p, gga-miR-6616-5p, gga-miR-6617-3p, gga-miR-6618-5p, gga-miR-6619-5p, gga-miR-6620-5p, gga-miR-6621-5p, gga-miR-6622-3p, gga-miR-6623-3p, gga-miR-6624-3p, gga-miR-6625-5p, gga-miR-6626-5p, gga-miR-6627-3p, gga-miR-6628-3p, gga-miR-6629-5p, gga-miR-6630-3p, gga-miR-6631-5p, gga-miR-6632-5p, gga-miR-6633-5p, gga-miR-6634-5p, gga-miR-6635-5p, gga-miR-6637-3p, gga-miR-6639-5p, gga-miR-6640-5p, gga-miR-6641-3p, gga-miR-6641-5p, gga-miR-6642-3p, gga-miR-6642-5p, gga-miR-6643-5p, gga-miR-6644-3p, gga-miR-6645-5p, gga-miR-6646-3p, gga-miR-6647-5p, gga-miR-6648-3p, gga-miR-6648-5p, gga-miR-6649-3p, gga-miR-6649-5p, gga-miR-6650-5p, gga-miR-6651-5p, gga-miR-6652-5p, gga-miR-6653-3p, gga-miR-6654-3p, gga-miR-6655-5p, gga-miR-6656-5p, gga-miR-6657-3p, gga-miR-6658-3p, gga-miR-6659-3p, gga-miR-6660-3p, gga-miR-6661-5p, gga-miR-6662-3p, gga-miR-6663-5p, gga-miR-6664-3p, gga-miR-6665-5p, gga-miR-6666-3p, gga-miR-6667-5p, gga-miR-6668-3p, gga-miR-6669-3p, gga-miR-6669-5p, gga-miR-6670-5p, gga-miR-6671-5p, gga-miR-6672-3p, gga-miR-6673-3p, gga-miR-6674-3p, gga-miR-6675-3p, gga-miR-6675-5p, gga-miR-6676-3p, gga-miR-6677-3p, gga-miR-6677-5p, gga-miR-6678-3p, gga-miR-6679-5p, gga-miR-6680-3p, gga-miR-6681-5p, gga-miR-6682-3p, gga-miR-6683-3p, gga-miR-6684-5p, gga-miR-6685-3p, gga-miR-6685-5p, gga-miR-6686-3p, gga-miR-6687-3p, gga-miR-6688-3p, gga-miR-6689-3p, gga-miR-6690-5p, gga-miR-6691-5p, gga-miR-6692-5p, gga-miR-6693-3p, gga-miR-6694-3p, gga-miR-6695-5p, gga-miR-6696-3p, gga-miR-6696-5p, gga-miR-6697-5p, gga-miR-6698-3p, gga-miR-6699-5p, gga-miR-6700-3p, gga-miR-6700-5p, gga-miR-6701-3p, gga-miR-6702-5p, gga-miR-6703-3p, gga-miR-6704-5p, gga-miR-6705-5p, gga-miR-6706-5p, gga-miR-6707-5p, gga-miR-6708-5p, gga-miR-6709-5p, gga-miR-6710-3p, gga-miR-6711-5p, gga-miR-6712-5p, gga-miR-6713-3p, gga-miR-6714-3p, gga-miR-7, gga-miR-726-3p, gga-miR-726-5p, gga-miR-7437-3p, gga-miR-

7437-5p, gga-miR-7438-3p, gga-miR-7438-5p, gga-miR-7439-3p, gga-miR-7439-5p, gga-miR-7440-3p, gga-miR-7440-5p, gga-miR-7441-3p, gga-miR-7441-5p, gga-miR-7442-3p, gga-miR-7442-5p, gga-miR-7443-3p, gga-miR-7443-5p, gga-miR-7444-3p, gga-miR-7444-5p, gga-miR-7445-3p, gga-miR-7445-5p, gga-miR-7446-3p, gga-miR-7446-5p, gga-miR-7447-3p, gga-miR-7447-5p, gga-miR-7448-3p, gga-miR-7448-5p, gga-miR-7449-3p, gga-miR-7449-5p, gga-miR-7450-3p, gga-miR-7450-5p, gga-miR-7451-3p, gga-miR-7451-5p, gga-miR-7452-3p, gga-miR-7452-5p, gga-miR-7453-3p, gga-miR-7453-5p, gga-miR-7454-3p, gga-miR-7454-5p, gga-miR-7455-3p, gga-miR-7455-5p, gga-miR-7456-3p, gga-miR-7456-5p, gga-miR-7457-3p, gga-miR-7457-5p, gga-miR-7458-3p, gga-miR-7458-5p, gga-miR-7459-3p, gga-miR-7459-5p, gga-miR-7460-3p, gga-miR-7460-5p, gga-miR-7461-3p, gga-miR-7461-5p, gga-miR-7462-3p, gga-miR-7462-5p, gga-miR-7463-3p, gga-miR-7463-5p, gga-miR-7464-3p, gga-miR-7464-5p, gga-miR-7465-3p, gga-miR-7465-5p, gga-miR-7466-3p, gga-miR-7466-5p, gga-miR-7467-3p, gga-miR-7467-5p, gga-miR-7468-3p, gga-miR-7468-5p, gga-miR-7469-3p, gga-miR-7469-5p, gga-miR-7470-3p, gga-miR-7470-5p, gga-miR-7471-3p, gga-miR-7471-5p, gga-miR-7472-3p, gga-miR-7472-5p, gga-miR-7473-3p, gga-miR-7473-5p, gga-miR-7474-3p, gga-miR-7474-5p, gga-miR-7475-3p, gga-miR-7475-5p, gga-miR-7476-3p, gga-miR-7476-5p, gga-miR-7477-3p, gga-miR-7477-5p, gga-miR-7478-3p, gga-miR-7478-5p, gga-miR-7479-3p, gga-miR-7479-5p, gga-miR-7480-3p, gga-miR-7480-5p, gga-miR-7481-3p, gga-miR-7481-5p, gga-miR-7482-3p, gga-miR-7482-5p, gga-miR-7483-3p, gga-miR-7483-5p, gga-miR-757, gga-miR-762, gga-miR-7b, gga-miR-9-3p, gga-miR-9-4-3p, gga-miR-9-5p, gga-miR-92-3p, gga-miR-92-5p, gga-miR-96-3p, gga-miR-96-5p, gga-miR-99a-3p, gga-miR-99a-5p, gga-miR-9b-3p, gga-miR-9b-5p, gggpv1-miR-P1-3p, gggpv1-miR-P1-5p, ggo-let-7a, ggo-let-7b, ggo-let-7c, ggo-let-7e, ggo-let-7f, ggo-let-7g, ggo-let-7i, ggo-miR-1, ggo-miR-100, ggo-miR-101, ggo-miR-103, ggo-miR-105, ggo-miR-106a, ggo-miR-106b, ggo-miR-107, ggo-miR-10a, ggo-miR-10b, ggo-miR-1179, ggo-miR-1180, ggo-miR-1185, ggo-miR-1193, ggo-miR-1197, ggo-miR-122, ggo-miR-1228, ggo-miR-1249, ggo-miR-124a, ggo-miR-1250, ggo-miR-1252, ggo-miR-1255a, ggo-miR-125a, ggo-miR-125b, ggo-miR-1260b, ggo-miR-1264, ggo-miR-1266, ggo-miR-127, ggo-miR-1271, ggo-miR-1277, ggo-miR-1278, ggo-miR-128, ggo-miR-1283, ggo-miR-1286, ggo-miR-1287, ggo-miR-1289, ggo-miR-129, ggo-miR-1291, ggo-miR-1296, ggo-miR-1298, ggo-miR-1301, ggo-miR-1304, ggo-miR-1306, ggo-miR-1307, ggo-miR-130a, ggo-miR-130b, ggo-miR-133a, ggo-miR-133b, ggo-miR-134, ggo-miR-1343, ggo-miR-135a, ggo-miR-135b, ggo-miR-136, ggo-miR-138, ggo-miR-139, ggo-miR-140, ggo-miR-141, ggo-miR-142, ggo-miR-143, ggo-miR-144, ggo-miR-145, ggo-miR-146a, ggo-miR-146b, ggo-

miR-148a, ggo-miR-148b, ggo-miR-149, ggo-miR-150, ggo-miR-151a, ggo-miR-152, ggo-miR-153, ggo-miR-154, ggo-miR-155, ggo-miR-15a, ggo-miR-15b, ggo-miR-16, ggo-miR-17-3p, ggo-miR-17-5p, ggo-miR-181a-3p, ggo-miR-181a-5p, ggo-miR-181b, ggo-miR-181c, ggo-miR-181d, ggo-miR-182, ggo-miR-183, ggo-miR-185, ggo-miR-186, ggo-miR-187, ggo-miR-188, ggo-miR-18a, ggo-miR-18b, ggo-miR-190a, ggo-miR-190b, ggo-miR-191, ggo-miR-192, ggo-miR-193a, ggo-miR-193b, ggo-miR-194, ggo-miR-195, ggo-miR-196, ggo-miR-196b, ggo-miR-197, ggo-miR-198, ggo-miR-199a, ggo-miR-19a, ggo-miR-19b, ggo-miR-200a, ggo-miR-200b, ggo-miR-200c, ggo-miR-202, ggo-miR-203b, ggo-miR-204, ggo-miR-205, ggo-miR-206, ggo-miR-20a, ggo-miR-20b, ggo-miR-21, ggo-miR-210, ggo-miR-2110, ggo-miR-214, ggo-miR-215, ggo-miR-216, ggo-miR-217, ggo-miR-218, ggo-miR-219, ggo-miR-22, ggo-miR-221, ggo-miR-222, ggo-miR-223, ggo-miR-224, ggo-miR-2355, ggo-miR-23a, ggo-miR-23b, ggo-miR-23c, ggo-miR-24, ggo-miR-25, ggo-miR-26a, ggo-miR-26b, ggo-miR-27a, ggo-miR-27b, ggo-miR-28, ggo-miR-296, ggo-miR-299, ggo-miR-29a, ggo-miR-29b, ggo-miR-29c, ggo-miR-301a, ggo-miR-30a-3p, ggo-miR-30a-5p, ggo-miR-30b, ggo-miR-30c, ggo-miR-30d, ggo-miR-30e, ggo-miR-31, ggo-miR-3126, ggo-miR-3127, ggo-miR-3129, ggo-miR-3138, ggo-miR-3151, ggo-miR-3173, ggo-miR-32, ggo-miR-320a, ggo-miR-320a-2, ggo-miR-320b, ggo-miR-323a, ggo-miR-323b, ggo-miR-324, ggo-miR-326, ggo-miR-328, ggo-miR-329b, ggo-miR-33, ggo-miR-330, ggo-miR-331, ggo-miR-335, ggo-miR-337, ggo-miR-338, ggo-miR-339, ggo-miR-340, ggo-miR-342, ggo-miR-345, ggo-miR-346, ggo-miR-34a, ggo-miR-34b, ggo-miR-34c, ggo-miR-3605, ggo-miR-361, ggo-miR-3612, ggo-miR-3615, ggo-miR-362, ggo-miR-363, ggo-miR-365a, ggo-miR-369, ggo-miR-370, ggo-miR-371b, ggo-miR-374a, ggo-miR-374b, ggo-miR-375, ggo-miR-376a, ggo-miR-376b, ggo-miR-376c, ggo-miR-377, ggo-miR-378a, ggo-miR-378b, ggo-miR-378e, ggo-miR-379, ggo-miR-380, ggo-miR-381, ggo-miR-382, ggo-miR-383, ggo-miR-3923, ggo-miR-3927, ggo-miR-3943, ggo-miR-409, ggo-miR-410, ggo-miR-411, ggo-miR-421, ggo-miR-423, ggo-miR-424, ggo-miR-429, ggo-miR-431, ggo-miR-432, ggo-miR-433, ggo-miR-4429, ggo-miR-4446, ggo-miR-448, ggo-miR-4484, ggo-miR-4488, ggo-miR-450a, ggo-miR-450b, ggo-miR-4510, ggo-miR-452, ggo-miR-4520b, ggo-miR-4524a, ggo-miR-4529, ggo-miR-4536, ggo-miR-454, ggo-miR-455, ggo-miR-4660, ggo-miR-4738, ggo-miR-4743, ggo-miR-483, ggo-miR-484, ggo-miR-485, ggo-miR-486, ggo-miR-487a, ggo-miR-487b, ggo-miR-488, ggo-miR-490, ggo-miR-491, ggo-miR-493, ggo-miR-494, ggo-miR-495, ggo-miR-496, ggo-miR-497, ggo-miR-499a, ggo-miR-502a, ggo-miR-502b, ggo-miR-503, ggo-miR-504, ggo-miR-505, ggo-miR-508, ggo-miR-509, ggo-miR-515-3p, ggo-miR-515-5p, ggo-miR-516a, ggo-miR-516a-3p, ggo-miR-516a-5p, ggo-miR-516b, ggo-miR-517c,

ggo-miR-517c-3p, ggo-miR-517c-5p, ggo-miR-518b, ggo-miR-518c-3p, ggo-miR-518c-5p, ggo-miR-518d-3p, ggo-miR-518d-5p, ggo-miR-518e-3p, ggo-miR-518e-5p, ggo-miR-518f-3p, ggo-miR-518f-5p, ggo-miR-519a, ggo-miR-519a-3p, ggo-miR-519a-5p, ggo-miR-519b, ggo-miR-519c, ggo-miR-519c-3p, ggo-miR-519c-5p, ggo-miR-519d, ggo-miR-519e-3p, ggo-miR-519e-5p, ggo-miR-520c, ggo-miR-520f, ggo-miR-520g, ggo-miR-521, ggo-miR-522-3p, ggo-miR-522-5p, ggo-miR-523-3p, ggo-miR-523-5p, ggo-miR-524-3p, ggo-miR-524-5p, ggo-miR-525-3p, ggo-miR-525-5p, ggo-miR-526a, ggo-miR-532, ggo-miR-539, ggo-miR-541, ggo-miR-542, ggo-miR-543, ggo-miR-548a, ggo-miR-548b, ggo-miR-548c, ggo-miR-548d, ggo-miR-548e, ggo-miR-548f, ggo-miR-551a, ggo-miR-551b, ggo-miR-556, ggo-miR-561, ggo-miR-574, ggo-miR-577, ggo-miR-582, ggo-miR-584, ggo-miR-589, ggo-miR-590, ggo-miR-592, ggo-miR-598, ggo-miR-609, ggo-miR-615, ggo-miR-624, ggo-miR-628, ggo-miR-629, ggo-miR-641, ggo-miR-651, ggo-miR-652, ggo-miR-654, ggo-miR-655, ggo-miR-656, ggo-miR-660, ggo-miR-668, ggo-miR-671, ggo-miR-675b, ggo-miR-676, ggo-miR-7, ggo-miR-758, ggo-miR-760, ggo-miR-766, ggo-miR-767, ggo-miR-769, ggo-miR-873, ggo-miR-874, ggo-miR-877, ggo-miR-885, ggo-miR-887, ggo-miR-889, ggo-miR-9, ggo-miR-92, ggo-miR-92b, ggo-miR-93, ggo-miR-940, ggo-miR-95, ggo-miR-96, ggo-miR-98, ggo-miR-99a, ghb-miR169a, ghr-miR156a, ghr-miR156b, ghr-miR156c, ghr-miR156d, ghr-miR160, ghr-miR162a, ghr-miR164, ghr-miR166b, ghr-miR167a, ghr-miR167b, ghr-miR169a, ghr-miR169b, ghr-miR172, ghr-miR2948-5p, ghr-miR2949a-3p, ghr-miR2949a-5p, ghr-miR2949b, ghr-miR2949c, ghr-miR2950, ghr-miR3476-3p, ghr-miR3476-5p, ghr-miR390a, ghr-miR390b, ghr-miR390c, ghr-miR393, ghr-miR394a, ghr-miR394b, ghr-miR396a, ghr-miR396b, ghr-miR398, ghr-miR399a, ghr-miR399b, ghr-miR399c, ghr-miR399d, ghr-miR399e, ghr-miR479, ghr-miR482a, ghr-miR482b, ghr-miR7484a, ghr-miR7484b, ghr-miR7485, ghr-miR7486a, ghr-miR7486b, ghr-miR7487, ghr-miR7488, ghr-miR7489, ghr-miR7490, ghr-miR7491, ghr-miR7492a, ghr-miR7492b, ghr-miR7492c, ghr-miR7493, ghr-miR7494, ghr-miR7495a, ghr-miR7495b, ghr-miR7496a, ghr-miR7496b, ghr-miR7497, ghr-miR7498, ghr-miR7499, ghr-miR7500, ghr-miR7501, ghr-miR7502, ghr-miR7503, ghr-miR7504a, ghr-miR7504b, ghr-miR7505, ghr-miR7506, ghr-miR7507, ghr-miR7508, ghr-miR7509, ghr-miR7510a, ghr-miR7510b, ghr-miR7511, ghr-miR7512, ghr-miR7513, ghr-miR7514, ghr-miR827a, ghr-miR827b, ghr-miR827c, gma-miR10186a, gma-miR10186b, gma-miR10186c, gma-miR10186d, gma-miR10186e, gma-miR10186f, gma-miR10186g, gma-miR10186h, gma-miR10186i, gma-miR10186j, gma-miR10186k, gma-miR10186l, gma-miR10187, gma-miR10188, gma-miR10189, gma-miR10190, gma-miR10191, gma-miR10192, gma-miR10193a, gma-miR10193b, gma-miR10193c, gma-

miR10193d, gma-miR10193e, gma-miR10193f, gma-miR10194, gma-miR10195, gma-miR10196, gma-miR10197, gma-miR10198, gma-miR10199, gma-miR10200, gma-miR10201, gma-miR10405a, gma-miR10405b, gma-miR10405c, gma-miR10405d, gma-miR10405e, gma-miR10406a, gma-miR10406b, gma-miR10407a, gma-miR10407b, gma-miR10407c, gma-miR10407d, gma-miR10408, gma-miR10409, gma-miR10410a, gma-miR10410b, gma-miR10410c, gma-miR10411, gma-miR10412, gma-miR10413a, gma-miR10413b, gma-miR10414, gma-miR10415, gma-miR10416, gma-miR10417, gma-miR10418, gma-miR10419, gma-miR10420, gma-miR10421, gma-miR10422, gma-miR10423, gma-miR10424a, gma-miR10424b, gma-miR10424c, gma-miR10424d, gma-miR10425, gma-miR10426, gma-miR10427a, gma-miR10427b, gma-miR10428, gma-miR10429, gma-miR10430, gma-miR10431, gma-miR10432, gma-miR10433, gma-miR10434, gma-miR10435, gma-miR10436, gma-miR10437, gma-miR10438, gma-miR10439, gma-miR10440, gma-miR10441, gma-miR10442, gma-miR10443, gma-miR10444, gma-miR10445, gma-miR10446, gma-miR10447, gma-miR10448, gma-miR1446, gma-miR1507a, gma-miR1507b, gma-miR1507c-3p, gma-miR1507c-5p, gma-miR1508a, gma-miR1508b, gma-miR1508c, gma-miR1509a, gma-miR1509b, gma-miR1510a-3p, gma-miR1510a-5p, gma-miR1510b-3p, gma-miR1510b-5p, gma-miR1511, gma-miR1512a-3p, gma-miR1512a-5p, gma-miR1512b, gma-miR1512c, gma-miR1513a-3p, gma-miR1513a-5p, gma-miR1513b, gma-miR1513c, gma-miR1514a-3p, gma-miR1514a-5p, gma-miR1514b-3p, gma-miR1514b-5p, gma-miR1515a, gma-miR1515b, gma-miR1516a-3p, gma-miR1516a-5p, gma-miR1516b, gma-miR1516c, gma-miR1516d, gma-miR1517, gma-miR1518, gma-miR1519, gma-miR1520a, gma-miR1520b, gma-miR1520c, gma-miR1520d, gma-miR1520e, gma-miR1520f-3p, gma-miR1520f-5p, gma-miR1520g, gma-miR1520h, gma-miR1520i, gma-miR1520j, gma-miR1520k, gma-miR1520l, gma-miR1520m, gma-miR1520n, gma-miR1520o, gma-miR1520p, gma-miR1520q, gma-miR1520r, gma-miR1521a, gma-miR1521b, gma-miR1522, gma-miR1523a, gma-miR1523b, gma-miR1524, gma-miR1525, gma-miR1526, gma-miR1527, gma-miR1528, gma-miR1529, gma-miR1530, gma-miR1531-3p, gma-miR1531-5p, gma-miR1532, gma-miR1533, gma-miR1534, gma-miR1535a, gma-miR1535b, gma-miR1536, gma-miR156a, gma-miR156aa, gma-miR156ab, gma-miR156b, gma-miR156c, gma-miR156d, gma-miR156e, gma-miR156f, gma-miR156g, gma-miR156h, gma-miR156i, gma-miR156j, gma-miR156k, gma-miR156l, gma-miR156m, gma-miR156n, gma-miR156o, gma-miR156p, gma-miR156q, gma-miR156r, gma-miR156s, gma-miR156t, gma-miR156u, gma-miR156v, gma-miR156w, gma-miR156x, gma-miR156y, gma-miR156z, gma-miR159a-3p, gma-miR159a-5p, gma-miR159b-3p, gma-miR159b-5p,

gma-miR159c, gma-miR159d, gma-miR159e-3p, gma-miR159e-5p, gma-miR159f-3p, gma-miR159f-5p, gma-miR160a-3p, gma-miR160a-5p, gma-miR160b, gma-miR160c, gma-miR160d, gma-miR160e, gma-miR160f, gma-miR162a, gma-miR162b, gma-miR162c, gma-miR164a, gma-miR164b, gma-miR164c, gma-miR164d, gma-miR164e, gma-miR164f, gma-miR164g, gma-miR164h, gma-miR164i, gma-miR164j, gma-miR164k, gma-miR166a-3p, gma-miR166a-5p, gma-miR166b, gma-miR166c-3p, gma-miR166c-5p, gma-miR166d, gma-miR166e, gma-miR166f, gma-miR166g, gma-miR166h-3p, gma-miR166h-5p, gma-miR166i-3p, gma-miR166i-5p, gma-miR166j-3p, gma-miR166j-5p, gma-miR166k, gma-miR166l, gma-miR166m, gma-miR166n, gma-miR166o, gma-miR166p, gma-miR166q, gma-miR166r, gma-miR166s, gma-miR166t, gma-miR166u, gma-miR167a, gma-miR167b, gma-miR167c, gma-miR167d, gma-miR167e, gma-miR167f, gma-miR167g, gma-miR167h, gma-miR167i, gma-miR167j, gma-miR167k, gma-miR167l, gma-miR168a, gma-miR168b, gma-miR169a, gma-miR169b, gma-miR169c, gma-miR169d, gma-miR169e, gma-miR169f, gma-miR169g, gma-miR169h, gma-miR169i-3p, gma-miR169i-5p, gma-miR169j-3p, gma-miR169j-5p, gma-miR169k, gma-miR169l-3p, gma-miR169l-5p, gma-miR169m, gma-miR169n-3p, gma-miR169n-5p, gma-miR169o, gma-miR169p, gma-miR169r, gma-miR169s-3p, gma-miR169s-5p, gma-miR169t, gma-miR169u, gma-miR169v, gma-miR169w, gma-miR171a, gma-miR171b-3p, gma-miR171b-5p, gma-miR171c-3p, gma-miR171c-5p, gma-miR171d, gma-miR171e, gma-miR171f, gma-miR171g, gma-miR171h, gma-miR171i-3p, gma-miR171i-5p, gma-miR171j-3p, gma-miR171j-5p, gma-miR171k-3p, gma-miR171k-5p, gma-miR171l, gma-miR171m, gma-miR171n, gma-miR171o-3p, gma-miR171o-5p, gma-miR171p, gma-miR171q, gma-miR171r, gma-miR171s, gma-miR171t, gma-miR171u, gma-miR172a, gma-miR172b-3p, gma-miR172b-5p, gma-miR172c, gma-miR172d, gma-miR172e, gma-miR172f, gma-miR172g, gma-miR172h-3p, gma-miR172h-5p, gma-miR172i-3p, gma-miR172i-5p, gma-miR172j, gma-miR172k, gma-miR172l, gma-miR2107, gma-miR2108a, gma-miR2108b, gma-miR2109-3p, gma-miR2109-5p, gma-miR2111a, gma-miR2111b, gma-miR2111c, gma-miR2111d, gma-miR2111e, gma-miR2111f, gma-miR2118a-3p, gma-miR2118a-5p, gma-miR2118b-3p, gma-miR2118b-5p, gma-miR2119, gma-miR2606a, gma-miR2606b, gma-miR319a, gma-miR319b, gma-miR319c, gma-miR319d, gma-miR319e, gma-miR319f, gma-miR319g, gma-miR319h, gma-miR319i, gma-miR319j, gma-miR319k, gma-miR319l, gma-miR319m, gma-miR319n, gma-miR319o, gma-miR319p, gma-miR319q, gma-miR3522, gma-miR390a-3p, gma-miR390a-5p, gma-miR390b-3p, gma-miR390b-5p, gma-miR390c, gma-miR390d, gma-miR390e, gma-miR390f, gma-miR390g, gma-miR391-5p, gma-miR391a-3p, gma-miR393a, gma-miR393b,

gma-miR393c-3p, gma-miR393c-5p, gma-miR393d, gma-miR393e, gma-miR393f, gma-miR393g, gma-miR393h, gma-miR393i, gma-miR393j, gma-miR393k, gma-miR394a-3p, gma-miR394a-5p, gma-miR394b-3p, gma-miR394b-5p, gma-miR394c-5p, gma-miR394d, gma-miR394e, gma-miR394f, gma-miR394g, gma-miR395a, gma-miR395b, gma-miR395c, gma-miR395d, gma-miR395e, gma-miR395f, gma-miR395g, gma-miR395h, gma-miR395i, gma-miR395j, gma-miR395k, gma-miR395l, gma-miR395m, gma-miR396a-3p, gma-miR396a-5p, gma-miR396b-3p, gma-miR396b-5p, gma-miR396c, gma-miR396d, gma-miR396e, gma-miR396f, gma-miR396g, gma-miR396h, gma-miR396i-3p, gma-miR396i-5p, gma-miR396j, gma-miR396k-3p, gma-miR396k-5p, gma-miR397a, gma-miR397b-3p, gma-miR397b-5p, gma-miR398a, gma-miR398b-3p, gma-miR398b-5p, gma-miR398c, gma-miR398d, gma-miR399a, gma-miR399b, gma-miR399c, gma-miR399d, gma-miR399e, gma-miR399f, gma-miR399g, gma-miR399h, gma-miR399i, gma-miR399j, gma-miR399k, gma-miR399l, gma-miR399m, gma-miR399n, gma-miR399o, gma-miR403a, gma-miR403b, gma-miR408a-3p, gma-miR408a-5p, gma-miR408b-3p, gma-miR408b-5p, gma-miR408c-3p, gma-miR408c-5p, gma-miR408d, gma-miR4340, gma-miR4341, gma-miR4342, gma-miR4343a, gma-miR4343b, gma-miR4344, gma-miR4345, gma-miR4346, gma-miR4347, gma-miR4348a-3p, gma-miR4348a-5p, gma-miR4348b, gma-miR4348c, gma-miR4348d, gma-miR4349-3p, gma-miR4349-5p, gma-miR4350, gma-miR4351, gma-miR4352a, gma-miR4352b, gma-miR4353, gma-miR4354, gma-miR4355, gma-miR4356, gma-miR4357, gma-miR4358, gma-miR4359a, gma-miR4359b, gma-miR4360, gma-miR4361, gma-miR4362, gma-miR4363, gma-miR4364a, gma-miR4364b, gma-miR4365, gma-miR4366, gma-miR4367, gma-miR4368a, gma-miR4368b, gma-miR4369, gma-miR4370, gma-miR4371a, gma-miR4371b, gma-miR4371c, gma-miR4372a, gma-miR4372b, gma-miR4373, gma-miR4374a, gma-miR4374b, gma-miR4374c, gma-miR4375, gma-miR4377, gma-miR4378a, gma-miR4378b, gma-miR4379, gma-miR4380a, gma-miR4380b, gma-miR4381, gma-miR4382, gma-miR4383, gma-miR4384, gma-miR4385, gma-miR4386, gma-miR4387a, gma-miR4387b, gma-miR4387c, gma-miR4387d, gma-miR4387e, gma-miR4388, gma-miR4389, gma-miR4390, gma-miR4391, gma-miR4392, gma-miR4392b, gma-miR4393a, gma-miR4393b, gma-miR4394, gma-miR4395, gma-miR4396, gma-miR4397-3p, gma-miR4397-5p, gma-miR4398, gma-miR4399, gma-miR4400, gma-miR4401a, gma-miR4401b, gma-miR4402, gma-miR4403, gma-miR4404, gma-miR4405, gma-miR4405b, gma-miR4406, gma-miR4407, gma-miR4408, gma-miR4409, gma-miR4410, gma-miR4411, gma-miR4412-3p, gma-miR4412-5p, gma-miR4413a, gma-miR4413b, gma-miR4414a-3p, gma-miR4414a-5p, gma-miR4414b, gma-miR4415a-3p,

gma-miR4415a-5p, gma-miR4415b-3p, gma-miR4415b-5p, gma-miR4416a, gma-miR4416b, gma-miR4416c-3p, gma-miR4416c-5p, gma-miR482a-3p, gma-miR482a-5p, gma-miR482b-3p, gma-miR482b-5p, gma-miR482c-3p, gma-miR482c-5p, gma-miR482d-3p, gma-miR482d-5p, gma-miR482e, gma-miR4992, gma-miR4993, gma-miR4994-3p, gma-miR4994-5p, gma-miR4995, gma-miR4996, gma-miR4997, gma-miR4997b, gma-miR4998, gma-miR5030, gma-miR5030b, gma-miR5031, gma-miR5032, gma-miR5033, gma-miR5034, gma-miR5035-3p, gma-miR5035-5p, gma-miR5036, gma-miR5037a, gma-miR5037b, gma-miR5037c, gma-miR5037d, gma-miR5038a, gma-miR5038b, gma-miR5039, gma-miR5040, gma-miR5041-3p, gma-miR5041-5p, gma-miR5042-3p, gma-miR5042-5p, gma-miR5043, gma-miR5044, gma-miR5225, gma-miR530a, gma-miR530b, gma-miR530c, gma-miR530d, gma-miR530e, gma-miR5368, gma-miR5369, gma-miR5370, gma-miR5371-3p, gma-miR5371-5p, gma-miR5372, gma-miR5373, gma-miR5374-3p, gma-miR5374-5p, gma-miR5375, gma-miR5376, gma-miR5377, gma-miR5377b, gma-miR5378, gma-miR5379, gma-miR5380a, gma-miR5380b, gma-miR5380c, gma-miR5559, gma-miR5667-3p, gma-miR5667-5p, gma-miR5668, gma-miR5669, gma-miR5670a, gma-miR5670b, gma-miR5671a, gma-miR5671b, gma-miR5672, gma-miR5673, gma-miR5674a, gma-miR5674b, gma-miR5675, gma-miR5676, gma-miR5677, gma-miR5678, gma-miR5679, gma-miR5761a, gma-miR5761b, gma-miR5762, gma-miR5763a, gma-miR5763b, gma-miR5763c, gma-miR5764, gma-miR5764b, gma-miR5765, gma-miR5766, gma-miR5767, gma-miR5768, gma-miR5769, gma-miR5770a, gma-miR5770b, gma-miR5770c, gma-miR5771, gma-miR5772, gma-miR5773, gma-miR5774a, gma-miR5774b, gma-miR5775, gma-miR5776, gma-miR5777, gma-miR5778, gma-miR5779, gma-miR5780a, gma-miR5780b, gma-miR5780c, gma-miR5780d, gma-miR5781, gma-miR5782, gma-miR5783, gma-miR5784, gma-miR5785, gma-miR5786, gma-miR6299, gma-miR6300, gma-miR828a, gma-miR828b, gma-miR862a, gma-miR862b, gma-miR9722, gma-miR9723, gma-miR9724, gma-miR9724b, gma-miR9725, gma-miR9726, gma-miR9727, gma-miR9728, gma-miR9729, gma-miR9730, gma-miR9731, gma-miR9732, gma-miR9733, gma-miR9734, gma-miR9735, gma-miR9736, gma-miR9737, gma-miR9738, gma-miR9739, gma-miR9740, gma-miR9741, gma-miR9742, gma-miR9743, gma-miR9744, gma-miR9745, gma-miR9746a, gma-miR9746b, gma-miR9746c, gma-miR9746d, gma-miR9746e, gma-miR9746f, gma-miR9746g, gma-miR9746h, gma-miR9746i, gma-miR9747, gma-miR9748, gma-miR9749, gma-miR9750-3p, gma-miR9750-5p, gma-miR9751, gma-miR9752, gma-miR9753, gma-miR9754, gma-miR9755, gma-miR9756, gma-miR9757, gma-miR9758, gma-miR9759, gma-miR9760, gma-miR9761, gma-miR9762, gma-miR9763, gma-miR9764,

gma-miR9765, gma-miR9766, gma-miR9767, gmo-let-7a-3-3p, gmo-let-7a-3p, gmo-let-7a-4-3p, gmo-let-7a-5-3p, gmo-let-7a-5p, gmo-let-7c-3p, gmo-let-7c-5p, gmo-let-7d-3p, gmo-let-7d-5p, gmo-let-7e-3p, gmo-let-7e-5p, gmo-let-7f-3p, gmo-let-7f-5p, gmo-let-7g-3p, gmo-let-7g-5p, gmo-let-7h-2-3p, gmo-let-7h-3p, gmo-let-7h-5p, gmo-let-7i-2-3p, gmo-let-7i-3p, gmo-let-7i-5p, gmo-let-7j-3p, gmo-let-7j-5p, gmo-miR-1-2-5p, gmo-miR-1-3p, gmo-miR-1-5p, gmo-miR-100a-3p, gmo-miR-100a-5p, gmo-miR-100b-5p, gmo-miR-101a-3p, gmo-miR-101a-5p, gmo-miR-101b-3p, gmo-miR-101b-5p, gmo-miR-103-2-5p, gmo-miR-103-3p, gmo-miR-103-5p, gmo-miR-10544-3p, gmo-miR-10544-5p, gmo-miR-10545-3p, gmo-miR-10545-5p, gmo-miR-10585-5p, gmo-miR-10a-3p, gmo-miR-10a-5p, gmo-miR-10b-5p, gmo-miR-10c-3p, gmo-miR-10c-5p, gmo-miR-10d-3p, gmo-miR-10d-5p, gmo-miR-11183-3p, gmo-miR-11183-5p, gmo-miR-11184a-3p, gmo-miR-11184b-5p, gmo-miR-11185-5p, gmo-miR-11186-5p, gmo-miR-11187-3p, gmo-miR-11187-5p, gmo-miR-11188-3p, gmo-miR-11189-5p, gmo-miR-11190-5p, gmo-miR-11191-3p, gmo-miR-11192-5p, gmo-miR-11193-5p, gmo-miR-11194-5p, gmo-miR-11195-5p, gmo-miR-11196-3p, gmo-miR-11197-3p, gmo-miR-11198-5p, gmo-miR-11199-5p, gmo-miR-11200-5p, gmo-miR-11201-3p, gmo-miR-11202-5p, gmo-miR-11203-5p, gmo-miR-11204a-3p, gmo-miR-11204b-3p, gmo-miR-11204c-3p, gmo-miR-11204d-3p, gmo-miR-11205-3p, gmo-miR-11205-5p, gmo-miR-11206-5p, gmo-miR-11207-3p, gmo-miR-11208-5p, gmo-miR-11209-3p, gmo-miR-11210-3p, gmo-miR-11210-5p, gmo-miR-11211-3p, gmo-miR-11212-5p, gmo-miR-11213-5p, gmo-miR-11214-5p, gmo-miR-11215-3p, gmo-miR-11216-5p, gmo-miR-11217-5p, gmo-miR-11218-5p, gmo-miR-11219-5p, gmo-miR-11220a-5p, gmo-miR-11220b-5p, gmo-miR-11221-3p, gmo-miR-11221-5p, gmo-miR-11222-5p, gmo-miR-11223-3p, gmo-miR-11223-5p, gmo-miR-11224a-5p, gmo-miR-11224b-3p, gmo-miR-11224b-5p, gmo-miR-11225-5p, gmo-miR-11226-3p, gmo-miR-11227-5p, gmo-miR-11228-3p, gmo-miR-11229-5p, gmo-miR-11230-5p, gmo-miR-11231-3p, gmo-miR-11232-3p, gmo-miR-11233-3p, gmo-miR-11234-3p, gmo-miR-11235-5p, gmo-miR-11236-3p, gmo-miR-11236-5p, gmo-miR-11237-5p, gmo-miR-11238-5p, gmo-miR-11239-3p, gmo-miR-11240-5p, gmo-miR-11241-3p, gmo-miR-11242-5p, gmo-miR-11243-3p, gmo-miR-11244-3p, gmo-miR-11245-5p, gmo-miR-11246-3p, gmo-miR-11247-5p, gmo-miR-11248-5p, gmo-miR-11249-3p, gmo-miR-11250-3p, gmo-miR-11251-3p, gmo-miR-11252-3p, gmo-miR-11252-5p, gmo-miR-11253-3p, gmo-miR-11254-3p, gmo-miR-11255-5p, gmo-miR-11256-5p, gmo-miR-11257-3p, gmo-miR-11258-5p, gmo-miR-11259-3p, gmo-miR-11259-5p, gmo-miR-11260-3p, gmo-miR-11260-5p, gmo-miR-11261-3p, gmo-miR-11262-3p, gmo-miR-11262-5p, gmo-miR-11263-3p, gmo-miR-11264-5p, gmo-miR-11265-3p, gmo-miR-11266a-5p, gmo-miR-

11266b-3p, gmo-miR-11267-3p, gmo-miR-11267-5p, gmo-miR-11268-5p, gmo-miR-11269-5p, gmo-miR-11270-3p, gmo-miR-11271-5p, gmo-miR-11272-3p, gmo-miR-11272-5p, gmo-miR-11273-5p, gmo-miR-11274-5p, gmo-miR-11275-5p, gmo-miR-11276-5p, gmo-miR-11277-3p, gmo-miR-11278-5p, gmo-miR-11279-5p, gmo-miR-11280-3p, gmo-miR-11280-5p, gmo-miR-11281-3p, gmo-miR-11282-5p, gmo-miR-11929-3p, gmo-miR-11929-5p, gmo-miR-11930-3p, gmo-miR-11930-5p, gmo-miR-11931-2-3p, gmo-miR-11931-3p, gmo-miR-11931-5p, gmo-miR-11932-3p, gmo-miR-11932-5p, gmo-miR-11933-3p, gmo-miR-11933-5p, gmo-miR-11934-3p, gmo-miR-11934-5p, gmo-miR-11935-3p, gmo-miR-11935-5p, gmo-miR-11936-3p, gmo-miR-11936-5p, gmo-miR-11937-3p, gmo-miR-11937-5p, gmo-miR-122-3p, gmo-miR-122-5p, gmo-miR-124-3-5p, gmo-miR-124-3p, gmo-miR-124-5p, gmo-miR-125a-3p, gmo-miR-125a-5p, gmo-miR-125b-3p, gmo-miR-125b-5p, gmo-miR-126-3p, gmo-miR-126-5p, gmo-miR-128-2-5p, gmo-miR-128-3p, gmo-miR-128-5p, gmo-miR-129-3-5p, gmo-miR-129-3p, gmo-miR-129-4-5p, gmo-miR-129-5p, gmo-miR-130a-3p, gmo-miR-130a-5p, gmo-miR-130b-3p, gmo-miR-130b-5p, gmo-miR-132-2-5p, gmo-miR-132-3p, gmo-miR-132-5p, gmo-miR-1338-3p, gmo-miR-1338-5p, gmo-miR-133a-3p, gmo-miR-133a-5p, gmo-miR-133b-3p, gmo-miR-133b-5p, gmo-miR-135a-5p, gmo-miR-135b-3p, gmo-miR-135b-5p, gmo-miR-135c-3p, gmo-miR-135c-5p, gmo-miR-135d-3p, gmo-miR-135d-5p, gmo-miR-137-2-5p, gmo-miR-137-3p, gmo-miR-137-5p, gmo-miR-138-3-3p, gmo-miR-138-3p, gmo-miR-138-5p, gmo-miR-139-3p, gmo-miR-139-5p, gmo-miR-140-3p, gmo-miR-140-5p, gmo-miR-142-2-3p, gmo-miR-142-5p, gmo-miR-143-3p, gmo-miR-143-5p, gmo-miR-144-3p, gmo-miR-144-5p, gmo-miR-145-3p, gmo-miR-145-5p, gmo-miR-146-3p, gmo-miR-146-5p, gmo-miR-148-3p, gmo-miR-148-5p, gmo-miR-150-5p, gmo-miR-152-3p, gmo-miR-152-5p, gmo-miR-153a-3p, gmo-miR-153b-3p, gmo-miR-153b-5p, gmo-miR-155-5p, gmo-miR-15a-5p, gmo-miR-15b-5p, gmo-miR-16a-3p, gmo-miR-16a-5p, gmo-miR-16b-5p, gmo-miR-17-5p, gmo-miR-1788-3p, gmo-miR-1788-5p, gmo-miR-181a-3p, gmo-miR-181a-5p, gmo-miR-181b-3p, gmo-miR-181b-5p, gmo-miR-181c-3p, gmo-miR-181c-5p, gmo-miR-181d-5p, gmo-miR-182-3p, gmo-miR-182-5p, gmo-miR-183-3p, gmo-miR-183-5p, gmo-miR-184-3p, gmo-miR-184-5p, gmo-miR-187-3p, gmo-miR-187-5p, gmo-miR-18a-2-5p, gmo-miR-18a-3p, gmo-miR-18a-5p, gmo-miR-18b-5p, gmo-miR-190a-2-5p, gmo-miR-190a-3p, gmo-miR-190a-5p, gmo-miR-190b-3p, gmo-miR-190b-5p, gmo-miR-192-5p, gmo-miR-193a-3p, gmo-miR-193a-5p, gmo-miR-194a-5p, gmo-miR-194b-5p, gmo-miR-196a-5p, gmo-miR-196b-5p, gmo-miR-199-3p, gmo-miR-199-4-3p, gmo-miR-199-5p, gmo-miR-19a-2-5p, gmo-miR-19a-3p, gmo-miR-19a-5p, gmo-miR-19b-2-5p, gmo-miR-19b-3p, gmo-miR-19b-5p, gmo-miR-19c-5p, gmo-miR-19d-3p, gmo-miR-19d-5p, gmo-miR-

200a-3p, gmo-miR-200a-5p, gmo-miR-200b-3p, gmo-miR-200b-5p, gmo-miR-202-3p, gmo-miR-203a-3p, gmo-miR-203a-5p, gmo-miR-203b-3p, gmo-miR-203b-5p, gmo-miR-204-5p, gmo-miR-205-2-3p, gmo-miR-205-3p, gmo-miR-205-5p, gmo-miR-206-3p, gmo-miR-206-5p, gmo-miR-20a-2-3p, gmo-miR-20a-3-3p, gmo-miR-20a-3p, gmo-miR-20a-5p, gmo-miR-20b-5p, gmo-miR-21-3p, gmo-miR-21-5p, gmo-miR-210-3p, gmo-miR-210-5p, gmo-miR-212-2-5p, gmo-miR-212-3p, gmo-miR-212-5p, gmo-miR-214-2-5p, gmo-miR-214-3p, gmo-miR-214-5p, gmo-miR-216a-3p, gmo-miR-216a-5p, gmo-miR-216b-5p, gmo-miR-217-3p, gmo-miR-217-5p, gmo-miR-2184-3p, gmo-miR-2184-5p, gmo-miR-2187a-5p, gmo-miR-2187b-3p, gmo-miR-2187b-5p, gmo-miR-2188-3p, gmo-miR-2188-5p, gmo-miR-218a-3p, gmo-miR-218a-5p, gmo-miR-218b-5p, gmo-miR-219-3-3p, gmo-miR-219-3p, gmo-miR-219-5p, gmo-miR-221-2-5p, gmo-miR-221-3p, gmo-miR-221-5p, gmo-miR-222-2-5p, gmo-miR-222-3p, gmo-miR-222-5p, gmo-miR-223a-3p, gmo-miR-223a-5p, gmo-miR-223b-3p, gmo-miR-22a-2-5p, gmo-miR-22a-3p, gmo-miR-22a-5p, gmo-miR-22b-3p, gmo-miR-22b-5p, gmo-miR-23a-3p, gmo-miR-23a-5p, gmo-miR-23b-3p, gmo-miR-24a-3-5p, gmo-miR-24a-3p, gmo-miR-24a-4-5p, gmo-miR-24a-5p, gmo-miR-24b-5p, gmo-miR-25-3p, gmo-miR-25-5p, gmo-miR-26a-2-3p, gmo-miR-26a-3p, gmo-miR-26a-4-3p, gmo-miR-26a-5p, gmo-miR-26b-5p, gmo-miR-27a-3p, gmo-miR-27a-5p, gmo-miR-27b-3p, gmo-miR-27b-5p, gmo-miR-27c-3p, gmo-miR-27c-5p, gmo-miR-27d-3p, gmo-miR-27d-5p, gmo-miR-29a-2-5p, gmo-miR-29a-3-5p, gmo-miR-29a-3p, gmo-miR-29a-5p, gmo-miR-29b-2-5p, gmo-miR-29b-3p, gmo-miR-29b-5p, gmo-miR-29c-3p, gmo-miR-29c-5p, gmo-miR-29d-3p, gmo-miR-29d-5p, gmo-miR-301a-3p, gmo-miR-301a-5p, gmo-miR-301b-3p, gmo-miR-301c-3p, gmo-miR-30a-3p, gmo-miR-30a-5p, gmo-miR-30b-3p, gmo-miR-30b-5p, gmo-miR-30c-3p, gmo-miR-30c-5p, gmo-miR-30d-3p, gmo-miR-30d-5p, gmo-miR-30e-3p, gmo-miR-30e-5p, gmo-miR-31-5p, gmo-miR-338-2-5p, gmo-miR-338-3-5p, gmo-miR-338-3p, gmo-miR-338-5p, gmo-miR-33b-2-3p, gmo-miR-33b-3p, gmo-miR-33b-5p, gmo-miR-34-3p, gmo-miR-34-5p, gmo-miR-363-3p, gmo-miR-365-3p, gmo-miR-365-5p, gmo-miR-375-3p, gmo-miR-375-5p, gmo-miR-429-3p, gmo-miR-429-5p, gmo-miR-430a-3p, gmo-miR-430b-5p, gmo-miR-430c-5p, gmo-miR-430d-5p, gmo-miR-430e-3p, gmo-miR-430e-5p, gmo-miR-430f-3p, gmo-miR-430g-3p, gmo-miR-449a-3p, gmo-miR-449a-5p, gmo-miR-449b-5p, gmo-miR-451-3p, gmo-miR-451-5p, gmo-miR-454-3p, gmo-miR-455-3p, gmo-miR-455-5p, gmo-miR-456-3p, gmo-miR-456-5p, gmo-miR-458-3p, gmo-miR-458-5p, gmo-miR-459-3p, gmo-miR-459-5p, gmo-miR-460-3p, gmo-miR-460-5p, gmo-miR-462-3p, gmo-miR-462-5p, gmo-miR-489-3p, gmo-miR-489-5p, gmo-miR-499-3p, gmo-miR-499-5p, gmo-miR-551-3p, gmo-miR-7132a-3p, gmo-miR-7132a-5p, gmo-miR-7132b-3p, gmo-miR-7132b-5p, gmo-miR-7133-3p, gmo-

miR-722-3p, gmo-miR-722-5p, gmo-miR-723-3p, gmo-miR-723-5p, gmo-miR-724-3p, gmo-miR-724-5p, gmo-miR-725-3p, gmo-miR-725-5p, gmo-miR-727-5p, gmo-miR-727b-3p, gmo-miR-727b-5p, gmo-miR-728a-3p, gmo-miR-728b-3p, gmo-miR-730-5p, gmo-miR-731-5p, gmo-miR-734-3p, gmo-miR-736-3p, gmo-miR-736-5p, gmo-miR-737-3p, gmo-miR-737-5p, gmo-miR-7550-5p, gmo-miR-7552-3p, gmo-miR-7552-5p, gmo-miR-7a-5p, gmo-miR-7b-5p, gmo-miR-7c-5p, gmo-miR-8159-5p, gmo-miR-8160a-3p, gmo-miR-8160a-5p, gmo-miR-8160b-3p, gmo-miR-8160b-5p, gmo-miR-8825-5p, gmo-miR-9-3-3p, gmo-miR-9-3p, gmo-miR-9-5-3p, gmo-miR-9-5p, gmo-miR-9-6-3p, gmo-miR-92-2-5p, gmo-miR-92-3p, gmo-miR-92-5p, gmo-miR-93-3p, gmo-miR-93-5p, gmo-miR-96-3p, gmo-miR-96-5p, gmo-miR-99-3p, gmo-miR-99-5p, gpy-miR-5045, gra-miR1446, gra-miR157a, gra-miR157b, gra-miR164a, gra-miR166c, gra-miR166d, gra-miR167a, gra-miR167b, gra-miR167c, gra-miR172a, gra-miR172b, gra-miR3267, gra-miR3476, gra-miR398, gra-miR399, gra-miR477, gra-miR482, gra-miR482c, gra-miR482d, gra-miR5207, gra-miR530a, gra-miR530b, gra-miR5741, gra-miR7484c, gra-miR7484d, gra-miR7484e, gra-miR7484f, gra-miR7484g, gra-miR7484h, gra-miR7484i, gra-miR7484j, gra-miR7484k, gra-miR7484l, gra-miR7484m, gra-miR7484n, gra-miR7484o, gra-miR7486c, gra-miR7486d, gra-miR7486e, gra-miR7486f, gra-miR7486g, gra-miR7486h, gra-miR7486i, gra-miR7486j, gra-miR7492d, gra-miR7492e, gra-miR7492f, gra-miR7492g, gra-miR7492h, gra-miR7492i, gra-miR7492j, gra-miR7492k, gra-miR7492l, gra-miR7492m, gra-miR7492n, gra-miR7492o, gra-miR7493b, gra-miR7494b, gra-miR7494c, gra-miR7494d, gra-miR7494e, gra-miR7494f, gra-miR7502b, gra-miR7502c, gra-miR7502d, gra-miR7502e, gra-miR7502f, gra-miR7503b, gra-miR7504c, gra-miR7504d, gra-miR7504e, gra-miR7504f, gra-miR7504g, gra-miR7504h, gra-miR7504i, gra-miR7504j, gra-miR7504k, gra-miR7504l, gra-miR7504m, gra-miR7504n, gra-miR7505b, gra-miR7506b, gra-miR7584e, gra-miR827b, gra-miR8632, gra-miR8633, gra-miR8634, gra-miR8635, gra-miR8636, gra-miR8637, gra-miR8638, gra-miR8639a, gra-miR8639b, gra-miR8639c, gra-miR8639d, gra-miR8639e, gra-miR8639f, gra-miR8639g, gra-miR8639h, gra-miR8639i, gra-miR8640, gra-miR8641, gra-miR8642, gra-miR8643a, gra-miR8643b, gra-miR8644, gra-miR8645, gra-miR8646, gra-miR8647, gra-miR8648, gra-miR8649, gra-miR8650, gra-miR8651, gra-miR8652, gra-miR8653a, gra-miR8653b, gra-miR8654a, gra-miR8654b, gra-miR8654c, gra-miR8655, gra-miR8656, gra-miR8657a, gra-miR8657b, gra-miR8657c, gra-miR8657d, gra-miR8657e, gra-miR8658, gra-miR8659a, gra-miR8659b, gra-miR8660, gra-miR8661, gra-miR8662, gra-miR8663a, gra-miR8663b, gra-miR8664, gra-miR8665, gra-miR8666, gra-miR8667, gra-miR8668, gra-miR8669, gra-miR8670a, gra-miR8670b, gra-miR8671, gra-miR8672, gra-miR8673, gra-miR8674a, gra-miR8674b, gra-

miR8674c, gra-miR8675a, gra-miR8675b, gra-miR8675c, gra-miR8676, gra-miR8677, gra-miR8678, gra-miR8679, gra-miR8680, gra-miR8681, gra-miR8682, gra-miR8683, gra-miR8684, gra-miR8685, gra-miR8686, gra-miR8687, gra-miR8688, gra-miR8689, gra-miR8690, gra-miR8691, gra-miR8692, gra-miR8693, gra-miR8694a, gra-miR8694b, gra-miR8695, gra-miR8696, gra-miR8697, gra-miR8698, gra-miR8699, gra-miR8700, gra-miR8701, gra-miR8702, gra-miR8703a, gra-miR8703b, gra-miR8703c, gra-miR8704, gra-miR8705, gra-miR8706a, gra-miR8706b, gra-miR8707, gra-miR8708, gra-miR8709a, gra-miR8709b, gra-miR8709c, gra-miR8710a, gra-miR8710b, gra-miR8711, gra-miR8712, gra-miR8713, gra-miR8714, gra-miR8715, gra-miR8716, gra-miR8717, gra-miR8718, gra-miR8719, gra-miR8720, gra-miR8721a, gra-miR8721b, gra-miR8722, gra-miR8723a, gra-miR8723b, gra-miR8724, gra-miR8725, gra-miR8726, gra-miR8727, gra-miR8728, gra-miR8729, gra-miR8730, gra-miR8731, gra-miR8732, gra-miR8733, gra-miR8734, gra-miR8735, gra-miR8736, gra-miR8737, gra-miR8738a, gra-miR8738b, gra-miR8739, gra-miR8740, gra-miR8741, gra-miR8742a, gra-miR8742b, gra-miR8743a, gra-miR8743b, gra-miR8743c, gra-miR8743d, gra-miR8743e, gra-miR8744, gra-miR8745, gra-miR8746, gra-miR8747, gra-miR8748, gra-miR8749, gra-miR8750, gra-miR8751a, gra-miR8751b, gra-miR8752, gra-miR8753, gra-miR8754, gra-miR8755, gra-miR8756, gra-miR8757a, gra-miR8757b, gra-miR8758, gra-miR8759, gra-miR8760, gra-miR8761, gra-miR8762a, gra-miR8762b, gra-miR8762c, gra-miR8762d, gra-miR8762e, gra-miR8763, gra-miR8764, gra-miR8765, gra-miR8766, gra-miR8767a, gra-miR8767b, gra-miR8767c, gra-miR8768, gra-miR8769, gra-miR8770, gra-miR8771a, gra-miR8771b, gra-miR8771c, gra-miR8771d, gra-miR8771e, gra-miR8771f, gra-miR8772, gra-miR8773, gra-miR8774, gra-miR8775, gra-miR8776a, gra-miR8776b, gra-miR8776c, gra-miR8776d, gra-miR8777, gra-miR8778, gra-miR8779, gra-miR8780, gra-miR8781a, gra-miR8781b, gra-miR8782, gra-miR8783, gra-miR8784, gra-miR8785, gra-miR8786a, gra-miR8786b, gra-miR8787, gsa-bantam-3p, gsa-bantam-5p, gsa-let-7-3p, gsa-let-7-5p, gsa-lin-4-3p, gsa-lin-4-5p, gsa-miR-1-3p, gsa-miR-1-5p, gsa-miR-10a-3p, gsa-miR-10a-5p, gsa-miR-10b-3p, gsa-miR-10b-5p, gsa-miR-1175-3p, gsa-miR-1175-5p, gsa-miR-124a-3p, gsa-miR-124a-5p, gsa-miR-124b-3p, gsa-miR-124b-5p, gsa-miR-153-3p, gsa-miR-153-5p, gsa-miR-184a-3p, gsa-miR-184a-5p, gsa-miR-184b-3p, gsa-miR-184b-5p, gsa-miR-184c-3p, gsa-miR-184c-5p, gsa-miR-190-3p, gsa-miR-190-5p, gsa-miR-1992-3p, gsa-miR-1992-5p, gsa-miR-1993-3p, gsa-miR-1993-5p, gsa-miR-2001-3p, gsa-miR-2001-5p, gsa-miR-219-3p, gsa-miR-219-5p, gsa-miR-277a-3p, gsa-miR-277a-5p, gsa-miR-277b-3p, gsa-miR-277b-5p, gsa-miR-278-3p, gsa-miR-278-5p, gsa-miR-279-3p, gsa-miR-279-5p, gsa-miR-281-3p, gsa-miR-281-5p, gsa-miR-2a-3p, gsa-miR-2a-5p, gsa-

miR-2b-3p, gsa-miR-2b-5p, gsa-miR-2c-3p, gsa-miR-2c-5p, gsa-miR-2d-3p, gsa-miR-2d-5p, gsa-miR-31-3p, gsa-miR-31-5p, gsa-miR-36-3p, gsa-miR-36-5p, gsa-miR-67-3p, gsa-miR-67-5p, gsa-miR-7-3p, gsa-miR-7-5p, gsa-miR-71a-3p, gsa-miR-71a-5p, gsa-miR-71b-3p, gsa-miR-71b-5p, gsa-miR-71c-3p, gsa-miR-71c-5p, gsa-miR-76a-3p, gsa-miR-76a-5p, gsa-miR-76b-3p, gsa-miR-76b-5p, gsa-miR-8-3p, gsa-miR-8-5p, gsa-miR-87-3p, gsa-miR-87-5p, gsa-miR-9-3p, gsa-miR-9-5p, gsa-miR-9389-3p, gsa-miR-9389-5p, gsa-miR-9390-3p, gsa-miR-9390-5p, gsa-miR-9391-3p, gsa-miR-9391-5p, gsa-miR-9392-3p, gsa-miR-9392-5p, gsa-miR-9393-3p, gsa-miR-9393-5p, gsa-miR-9394a-3p, gsa-miR-9394a-5p, gsa-miR-9394b-3p, gsa-miR-9394b-5p, gsa-miR-9395-3p, gsa-miR-9395-5p, gsa-miR-9396-3p, gsa-miR-9396-5p, gsa-miR-9397-3p, gsa-miR-9397-5p, gsa-miR-9398-3p, gsa-miR-9398-5p, gsa-miR-9399-3p, gsa-miR-9399-5p, gsa-miR-9400-3p, gsa-miR-9400-5p, gsa-miR-9401-3p, gsa-miR-9401-5p, gsa-miR-9402-3p, gsa-miR-9402-5p, gsa-miR-9403-3p, gsa-miR-9403-5p, gsa-miR-9404-3p, gsa-miR-9404-5p, gsa-miR-9405-3p, gsa-miR-9405-5p, gsa-miR-96a-3p, gsa-miR-96a-5p, gsa-miR-96b-3p, gsa-miR-96b-5p, gsa-miR-993-3p, gsa-miR-993-5p, gso-miR1507a, gso-miR1507b, gso-miR1508a, gso-miR1509a, gso-miR1510a, gso-miR1510b, gso-miR167a, gso-miR2109, gso-miR2218, gso-miR3522a, gso-miR3522b, gso-miR482a, gso-miR482b, han-miR156a, han-miR156b, han-miR156c, han-miR160a, han-miR3440, han-miR3630-3p, han-miR3630-5p, har-miR156a, har-miR156c, har-miR403a, hbr-miR156, hbr-miR159a, hbr-miR166a, hbr-miR166b, hbr-miR2118, hbr-miR319, hbr-miR396a, hbr-miR396b, hbr-miR398, hbr-miR408a, hbr-miR408b, hbr-miR476, hbr-miR482a, hbr-miR482b, hbr-miR6166, hbr-miR6167, hbr-miR6168, hbr-miR6169, hbr-miR6170, hbr-miR6171, hbr-miR6172, hbr-miR6173, hbr-miR6174, hbr-miR6175, hbr-miR6482, hbr-miR6483, hbr-miR6484, hbr-miR6485, hbr-miR9386, hbr-miR9387, hbv-miR-B14RC-3p, hbv-miR-B19-5p, hbv-miR-B2-3p, hbv-miR-B20-3p, hbv-miR-B20-5p, hbv-miR-B21RC-5p, hbv-miR-B22-3p, hbv-miR-B26-5p, hbv-miR-B2RC, hbv-miR-B3RC-3p, hbv-miR-B3RC-5p, hbv-miR-B4, hbv-miR-B7-5p, hbv-miR-B8-3p, hbv-miR-B8-5p, hci-miR156a, hci-miR156b, hci-miR164a, hcmv-miR-UL112-3p, hcmv-miR-UL112-5p, hcmv-miR-UL148D, hcmv-miR-UL22A-3p, hcmv-miR-UL22A-5p, hcmv-miR-UL36-3p, hcmv-miR-UL36-5p, hcmv-miR-UL59, hcmv-miR-UL69, hcmv-miR-UL70-3p, hcmv-miR-UL70-5p, hcmv-miR-US22-3p, hcmv-miR-US22-5p, hcmv-miR-US25-1-3p, hcmv-miR-US25-1-5p, hcmv-miR-US25-2-3p, hcmv-miR-US25-2-5p, hcmv-miR-US29-3p, hcmv-miR-US29-5p, hcmv-miR-US33-3p, hcmv-miR-US33-5p, hcmv-miR-US4-3p, hcmv-miR-US4-5p, hcmv-miR-US5-1, hcmv-miR-US5-2-3p, hcmv-miR-US5-2-5p, hco-lin-4, hco-miR-1, hco-miR-124, hco-miR-133, hco-miR-190-5p, hco-miR-2, hco-miR-2159-3p, hco-miR-228, hco-miR-234, hco-miR-

235, hco-miR-236, hco-miR-242, hco-miR-250, hco-miR-252, hco-miR-255, hco-miR-259, hco-miR-265, hco-miR-277, hco-miR-307, hco-miR-40a, hco-miR-40b, hco-miR-40c, hco-miR-40d, hco-miR-40e, hco-miR-43, hco-miR-45, hco-miR-46, hco-miR-50, hco-miR-5352, hco-miR-55, hco-miR-5884, hco-miR-5885a, hco-miR-5885b, hco-miR-5885c, hco-miR-5886a, hco-miR-5886b, hco-miR-5887, hco-miR-5888, hco-miR-5889, hco-miR-5890a, hco-miR-5890b-3p, hco-miR-5890b-5p, hco-miR-5890c, hco-miR-5890d, hco-miR-5890e, hco-miR-5890f-3p, hco-miR-5890f-5p, hco-miR-5891, hco-miR-5892a, hco-miR-5892b, hco-miR-5893, hco-miR-5894a, hco-miR-5894b, hco-miR-5895, hco-miR-5896, hco-miR-5897a, hco-miR-5897b, hco-miR-5897c, hco-miR-5898-3p, hco-miR-5898-5p, hco-miR-5899, hco-miR-59, hco-miR-5900, hco-miR-5901, hco-miR-5902-3p, hco-miR-5902-5p, hco-miR-5903, hco-miR-5904a, hco-miR-5904b, hco-miR-5904c, hco-miR-5905, hco-miR-5906, hco-miR-5907, hco-miR-5908-3p, hco-miR-5908-5p, hco-miR-5909, hco-miR-5910, hco-miR-5911a, hco-miR-5911b, hco-miR-5911c, hco-miR-5912a, hco-miR-5912b, hco-miR-5913, hco-miR-5914, hco-miR-5915, hco-miR-5916, hco-miR-5917, hco-miR-5918a, hco-miR-5918b, hco-miR-5918c, hco-miR-5918d, hco-miR-5919, hco-miR-5920, hco-miR-5921-3p, hco-miR-5921-5p, hco-miR-5922, hco-miR-5923, hco-miR-5924-3p, hco-miR-5924-5p, hco-miR-5925, hco-miR-5926, hco-miR-5927, hco-miR-5928a, hco-miR-5928b, hco-miR-5928c, hco-miR-5928d, hco-miR-5928e, hco-miR-5929, hco-miR-5930, hco-miR-5931, hco-miR-5932, hco-miR-5933, hco-miR-5934, hco-miR-5935, hco-miR-5936, hco-miR-5937, hco-miR-5938, hco-miR-5939, hco-miR-5940, hco-miR-5941, hco-miR-5942, hco-miR-5943, hco-miR-5944, hco-miR-5945-3p, hco-miR-5945-5p, hco-miR-5946a, hco-miR-5946b, hco-miR-5946c, hco-miR-5947, hco-miR-5948, hco-miR-5949, hco-miR-5950, hco-miR-5951, hco-miR-5952, hco-miR-5953, hco-miR-5954, hco-miR-5955, hco-miR-5956, hco-miR-5957, hco-miR-5958, hco-miR-5959, hco-miR-5960, hco-miR-5961, hco-miR-5962, hco-miR-5963, hco-miR-5964, hco-miR-5965, hco-miR-5966, hco-miR-5967, hco-miR-5968, hco-miR-5969, hco-miR-5970, hco-miR-5971, hco-miR-5972, hco-miR-5973, hco-miR-5974, hco-miR-5975, hco-miR-5976, hco-miR-5977, hco-miR-5978, hco-miR-5979, hco-miR-5980, hco-miR-5981, hco-miR-5982, hco-miR-5983, hco-miR-5984a, hco-miR-5984b, hco-miR-5985, hco-miR-5986, hco-miR-5987, hco-miR-5988, hco-miR-5989, hco-miR-5990-5p, hco-miR-5991, hco-miR-60, hco-miR-61, hco-miR-63a, hco-miR-63b, hco-miR-7, hco-miR-71, hco-miR-72, hco-miR-76, hco-miR-79, hco-miR-790, hco-miR-83, hco-miR-84a, hco-miR-84b, hco-miR-86, hco-miR-87a, hco-miR-87b, hco-miR-87c, hco-miR-9, hco-miR-9551, hco-miR-993, hex-miR390a, hex-miR390b, hhi-let-7c, hhi-let-7j, hhi-miR-1, hhi-miR-10d, hhi-miR-129a, hhi-miR-129b-3p, hhi-miR-129b-5p, hhi-miR-147b, hhi-miR-15a,

hhi-miR-1788, hhi-miR-181b, hhi-miR-182, hhi-miR-183, hhi-miR-187, hhi-miR-196, hhi-miR-199a, hhi-miR-21, hhi-miR-23a, hhi-miR-26, hhi-miR-301, hhi-miR-430a, hhi-miR-430b, hhi-miR-449, hhi-miR-723, hhi-miR-728, hhi-miR-737, hhi-miR-7788, hhi-miR-7789, hhi-miR-7790, hhi-miR-7791, hhi-miR-7792, hhi-miR-7793, hhi-miR-7794, hhi-miR-7795, hhi-miR-7796, hhi-miR-96, hhv6b-miR-Ro6-1-3p, hhv6b-miR-Ro6-1-5p, hhv6b-miR-Ro6-2-3p, hhv6b-miR-Ro6-2-5p, hhv6b-miR-Ro6-3-3p, hhv6b-miR-Ro6-3-5p, hhv6b-miR-Ro6-4-3p, hhv6b-miR-Ro6-4-5p, hiv1-miR-H1, hiv1-miR-N367, hiv1-miR-TAR-3p, hiv1-miR-TAR-5p, hma-miR-2022, hma-miR-2030, hma-miR-3002, hma-miR-3003a-3p, hma-miR-3003a-5p, hma-miR-3003b-3p, hma-miR-3003b-5p, hma-miR-3004, hma-miR-3005, hma-miR-3006, hma-miR-3007-3p, hma-miR-3007-5p, hma-miR-3008, hma-miR-3009, hma-miR-3010, hma-miR-3011, hma-miR-3012a, hma-miR-3012b, hma-miR-3013, hma-miR-3014, hme-bantam, hme-let-7, hme-miR-10, hme-miR-1000, hme-miR-11, hme-miR-1175, hme-miR-12, hme-miR-124, hme-miR-133, hme-miR-137, hme-miR-13a, hme-miR-13b, hme-miR-14, hme-miR-184, hme-miR-190, hme-miR-193-3p, hme-miR-193-5p, hme-miR-1a, hme-miR-1b, hme-miR-210, hme-miR-252, hme-miR-263a, hme-miR-263b, hme-miR-2733, hme-miR-2755, hme-miR-2756, hme-miR-276, hme-miR-2763, hme-miR-2765, hme-miR-2767, hme-miR-2768, hme-miR-277, hme-miR-278, hme-miR-2788-3p, hme-miR-2788-5p, hme-miR-2796, hme-miR-2797, hme-miR-279a, hme-miR-279b, hme-miR-279c, hme-miR-279d, hme-miR-281, hme-miR-282, hme-miR-283, hme-miR-285, hme-miR-2a, hme-miR-2b, hme-miR-2c, hme-miR-305, hme-miR-306, hme-miR-307, hme-miR-308, hme-miR-316, hme-miR-3286, hme-miR-33, hme-miR-3327, hme-miR-3338, hme-miR-34, hme-miR-6301-1-5p, hme-miR-6301-2-5p, hme-miR-6301-3p, hme-miR-6302-1-5p, hme-miR-6302-2-5p, hme-miR-6302-3p, hme-miR-6303-5p, hme-miR-6304-3p, hme-miR-6305-3p, hme-miR-6305-5p, hme-miR-6306-3p, hme-miR-6306-5p, hme-miR-6307-3p, hme-miR-6308-3p, hme-miR-6309-3p, hme-miR-6310-3p, hme-miR-6311-3p, hme-miR-6312-3p, hme-miR-6312-5p, hme-miR-7, hme-miR-71, hme-miR-745, hme-miR-79, hme-miR-8, hme-miR-87, hme-miR-927, hme-miR-928, hme-miR-929, hme-miR-92a, hme-miR-92b, hme-miR-932, hme-miR-965, hme-miR-970, hme-miR-971, hme-miR-981, hme-miR-993, hme-miR-998, hme-miR-9a, hme-miR-9b, hpa-miR156a, hpa-miR166a, hpa-miR171a, hpe-miR162a, hpe-miR166a, hpe-miR403a, hpo-let-7-3p, hpo-let-7-5p, hpo-lin-4-3p, hpo-lin-4-5p, hpo-miR-1-3p, hpo-miR-1-5p, hpo-miR-100-3p, hpo-miR-100-5p, hpo-miR-10021-3p, hpo-miR-10021-5p, hpo-miR-10022-3p, hpo-miR-10022-5p, hpo-miR-10023-3p, hpo-miR-10023-5p, hpo-miR-10024-3p, hpo-miR-10024-5p, hpo-miR-10025-3p, hpo-miR-10025-5p, hpo-miR-10026-3p, hpo-miR-10026-5p, hpo-miR-10027-3p, hpo-miR-10027-5p, hpo-miR-

10028-3p, hpo-miR-10028-5p, hpo-miR-10029-3p, hpo-miR-10029-5p, hpo-miR-10030-3p, hpo-miR-10030-5p, hpo-miR-10031a-2-5p, hpo-miR-10031a-3p, hpo-miR-10031a-5p, hpo-miR-10031b-3p, hpo-miR-10031b-5p, hpo-miR-10031c-3p, hpo-miR-10031c-5p, hpo-miR-10031d-3p, hpo-miR-10031d-5p, hpo-miR-10031e-3p, hpo-miR-10031e-5p, hpo-miR-10032-3p, hpo-miR-10032-5p, hpo-miR-10033-3p, hpo-miR-10033-5p, hpo-miR-10034-3p, hpo-miR-10034-5p, hpo-miR-10035-3p, hpo-miR-10035-5p, hpo-miR-10036-2-5p, hpo-miR-10036-3p, hpo-miR-10036-5p, hpo-miR-10037-3p, hpo-miR-10037-5p, hpo-miR-10038-3p, hpo-miR-10038-5p, hpo-miR-10039-3p, hpo-miR-10039-5p, hpo-miR-10040-3p, hpo-miR-10040-5p, hpo-miR-10041-3p, hpo-miR-10041-5p, hpo-miR-10042-3p, hpo-miR-10042-5p, hpo-miR-10043a-3p, hpo-miR-10043a-5p, hpo-miR-10043b-3p, hpo-miR-10043b-5p, hpo-miR-10043c-3p, hpo-miR-10043c-5p, hpo-miR-10043d-3p, hpo-miR-10043d-5p, hpo-miR-10043e-3p, hpo-miR-10043e-5p, hpo-miR-10043f-3p, hpo-miR-10043f-5p, hpo-miR-10044-3p, hpo-miR-10044-5p, hpo-miR-10045-3p, hpo-miR-10045-5p, hpo-miR-10046-3p, hpo-miR-10046-5p, hpo-miR-10047-3p, hpo-miR-10047-5p, hpo-miR-10048-3p, hpo-miR-10048-5p, hpo-miR-10049-3p, hpo-miR-10049-5p, hpo-miR-10050-3p, hpo-miR-10050-5p, hpo-miR-10051-3p, hpo-miR-10051-5p, hpo-miR-10052-3p, hpo-miR-10052-5p, hpo-miR-10053-3p, hpo-miR-10053-5p, hpo-miR-10054-3p, hpo-miR-10054-5p, hpo-miR-10055-3p, hpo-miR-10055-5p, hpo-miR-10056-3p, hpo-miR-10056-5p, hpo-miR-10057-3p, hpo-miR-10057-5p, hpo-miR-10058-3p, hpo-miR-10058-5p, hpo-miR-10059-3p, hpo-miR-10059-5p, hpo-miR-10060-3p, hpo-miR-10060-5p, hpo-miR-10061-3p, hpo-miR-10061-5p, hpo-miR-10062-3p, hpo-miR-10062-5p, hpo-miR-10063a-3p, hpo-miR-10063a-5p, hpo-miR-10063b-3p, hpo-miR-10063b-5p, hpo-miR-10064-3p, hpo-miR-10064-5p, hpo-miR-10065a-3p, hpo-miR-10065a-5p, hpo-miR-10065b-2-3p, hpo-miR-10065b-3p, hpo-miR-10065b-5p, hpo-miR-10066-3p, hpo-miR-10066-5p, hpo-miR-10067-3p, hpo-miR-10067-5p, hpo-miR-10068-3p, hpo-miR-10068-5p, hpo-miR-10069-3p, hpo-miR-10069-5p, hpo-miR-10070-3p, hpo-miR-10070-5p, hpo-miR-10071-3p, hpo-miR-10071-5p, hpo-miR-10072a-3p, hpo-miR-10072a-5p, hpo-miR-10072b-3p, hpo-miR-10072b-5p, hpo-miR-10073-3p, hpo-miR-10073-5p, hpo-miR-10074-3p, hpo-miR-10074-5p, hpo-miR-10075a-3p, hpo-miR-10075a-5p, hpo-miR-10075b-3p, hpo-miR-10075b-5p, hpo-miR-10076-3p, hpo-miR-10076-5p, hpo-miR-10077-3p, hpo-miR-10077-5p, hpo-miR-10078-3p, hpo-miR-10078-5p, hpo-miR-10079-3p, hpo-miR-10079-5p, hpo-miR-10080-3p, hpo-miR-10080-5p, hpo-miR-10081-3p, hpo-miR-10081-5p, hpo-miR-10082-3p, hpo-miR-10082-5p, hpo-miR-10083-??, hpo-miR-10083-3p, hpo-miR-10084-3p, hpo-miR-10084-5p, hpo-miR-10085-3p, hpo-miR-10085-5p, hpo-miR-10086-3p, hpo-miR-10086-5p, hpo-miR-10087-3p, hpo-miR-10087-5p, hpo-miR-10088-3p,

hpo-miR-10088-5p, hpo-miR-10089-3p, hpo-miR-10089-5p, hpo-miR-10090-3p, hpo-miR-10090-5p, hpo-miR-10091-3p, hpo-miR-10091-5p, hpo-miR-10092-3p, hpo-miR-10092-5p, hpo-miR-10093-3p, hpo-miR-10093-5p, hpo-miR-10094-3p, hpo-miR-10094-5p, hpo-miR-10095-3p, hpo-miR-10095-5p, hpo-miR-10096-3p, hpo-miR-10096-5p, hpo-miR-10097-3p, hpo-miR-10097-5p, hpo-miR-10098a-3p, hpo-miR-10098a-5p, hpo-miR-10098b-3p, hpo-miR-10098b-5p, hpo-miR-10099-3p, hpo-miR-10099-5p, hpo-miR-10100-3p, hpo-miR-10100-5p, hpo-miR-10101-3p, hpo-miR-10101-5p, hpo-miR-10102-3p, hpo-miR-10102-5p, hpo-miR-10103-3p, hpo-miR-10103-5p, hpo-miR-10104-3p, hpo-miR-10104-5p, hpo-miR-10105-3p, hpo-miR-10105-5p, hpo-miR-10106-3p, hpo-miR-10106-5p, hpo-miR-10107-3p, hpo-miR-10107-5p, hpo-miR-10108-3p, hpo-miR-10108-5p, hpo-miR-10109-3p, hpo-miR-10109-5p, hpo-miR-10110-3p, hpo-miR-10110-5p, hpo-miR-10111-3p, hpo-miR-10111-5p, hpo-miR-10112-3p, hpo-miR-10112-5p, hpo-miR-10113-3p, hpo-miR-10113-5p, hpo-miR-10114-3p, hpo-miR-10114-5p, hpo-miR-10115-3p, hpo-miR-10115-5p, hpo-miR-10116-3p, hpo-miR-10116-5p, hpo-miR-10117-3p, hpo-miR-10117-5p, hpo-miR-10118-3p, hpo-miR-10118-5p, hpo-miR-10119-3p, hpo-miR-10119-5p, hpo-miR-10120-3p, hpo-miR-10120-5p, hpo-miR-10121-3p, hpo-miR-10121-5p, hpo-miR-10122-3p, hpo-miR-10122-5p, hpo-miR-10123-3p, hpo-miR-10123-5p, hpo-miR-10124-3p, hpo-miR-10124-5p, hpo-miR-10125-3p, hpo-miR-10125-5p, hpo-miR-10126-3p, hpo-miR-10126-5p, hpo-miR-10127-3p, hpo-miR-10127-5p, hpo-miR-10128-3p, hpo-miR-10128-5p, hpo-miR-10129-3p, hpo-miR-10129-5p, hpo-miR-10130-3p, hpo-miR-10130-5p, hpo-miR-10131-3p, hpo-miR-10131-5p, hpo-miR-10132-3p, hpo-miR-10132-5p, hpo-miR-10133-3p, hpo-miR-10133-5p, hpo-miR-10134-2-5p, hpo-miR-10134-3p, hpo-miR-10134-5p, hpo-miR-10135-3p, hpo-miR-10135-5p, hpo-miR-10136-3p, hpo-miR-10136-5p, hpo-miR-10137a-3p, hpo-miR-10137a-5p, hpo-miR-10137b-3p, hpo-miR-10137b-5p, hpo-miR-10138-3p, hpo-miR-10138-5p, hpo-miR-10139-3p, hpo-miR-10139-5p, hpo-miR-10140-3p, hpo-miR-10140-5p, hpo-miR-10141-3p, hpo-miR-10141-5p, hpo-miR-10142-3p, hpo-miR-10142-5p, hpo-miR-10143-3p, hpo-miR-10143-5p, hpo-miR-10144-??, hpo-miR-10144-3p, hpo-miR-10145-3p, hpo-miR-10145-5p, hpo-miR-10146-3p, hpo-miR-10146-5p, hpo-miR-10147-3p, hpo-miR-10147-5p, hpo-miR-10148-3p, hpo-miR-10148-5p, hpo-miR-10149-3p, hpo-miR-10149-5p, hpo-miR-10150-3p, hpo-miR-10150-5p, hpo-miR-10151-3p, hpo-miR-10151-5p, hpo-miR-10152-3p, hpo-miR-10152-5p, hpo-miR-10153-3p, hpo-miR-10153-5p, hpo-miR-10154-3p, hpo-miR-10154-5p, hpo-miR-10155-3p, hpo-miR-10155-5p, hpo-miR-10156a-3p, hpo-miR-10156a-5p, hpo-miR-10156b-3p, hpo-miR-10156b-5p, hpo-miR-10157-3p, hpo-miR-10157-5p, hpo-miR-10158a-3p, hpo-miR-10158a-5p, hpo-miR-10158b-3p, hpo-miR-10158b-5p, hpo-miR-10159-

3p, hpo-miR-10159-5p, hpo-miR-10160-3p, hpo-miR-10160-5p, hpo-miR-1175-3p, hpo-miR-1175-5p, hpo-miR-124-3p, hpo-miR-124-5p, hpo-miR-1822-3p, hpo-miR-1822-5p, hpo-miR-2-3p, hpo-miR-2-5p, hpo-miR-228-3p, hpo-miR-228-5p, hpo-miR-232a-3p, hpo-miR-232a-5p, hpo-miR-232b-3p, hpo-miR-232b-5p, hpo-miR-233-3p, hpo-miR-233-5p, hpo-miR-234-3p, hpo-miR-234-5p, hpo-miR-235-3p, hpo-miR-235-5p, hpo-miR-236-3p, hpo-miR-236-5p, hpo-miR-240-3p, hpo-miR-240-5p, hpo-miR-250-3p, hpo-miR-250-5p, hpo-miR-252-3p, hpo-miR-252-5p, hpo-miR-255-3p, hpo-miR-255-5p, hpo-miR-259-3p, hpo-miR-259-5p, hpo-miR-2709-3p, hpo-miR-2709-5p, hpo-miR-277-3p, hpo-miR-277-5p, hpo-miR-307-3p, hpo-miR-307-5p, hpo-miR-34-3p, hpo-miR-34-5p, hpo-miR-36a-3p, hpo-miR-36a-5p, hpo-miR-36b-3p, hpo-miR-36b-5p, hpo-miR-37-3p, hpo-miR-37-5p, hpo-miR-40a-3p, hpo-miR-40a-5p, hpo-miR-40b-3p, hpo-miR-40b-5p, hpo-miR-40c-3p, hpo-miR-40c-5p, hpo-miR-40d-3p, hpo-miR-40d-5p, hpo-miR-40e-3p, hpo-miR-40e-5p, hpo-miR-40f-3p, hpo-miR-40f-5p, hpo-miR-40g-3p, hpo-miR-40g-5p, hpo-miR-40h-3p, hpo-miR-40h-5p, hpo-miR-43a-3p, hpo-miR-43a-5p, hpo-miR-43b-3p, hpo-miR-43b-5p, hpo-miR-45-3p, hpo-miR-45-5p, hpo-miR-46-3p, hpo-miR-46-5p, hpo-miR-50-3p, hpo-miR-50-5p, hpo-miR-5352-3p, hpo-miR-5352-5p, hpo-miR-54a-3p, hpo-miR-54a-5p, hpo-miR-54b-3p, hpo-miR-54b-5p, hpo-miR-55-3p, hpo-miR-55-5p, hpo-miR-5884-3p, hpo-miR-5884-5p, hpo-miR-5885a-3p, hpo-miR-5885a-5p, hpo-miR-5885b-3p, hpo-miR-5885b-5p, hpo-miR-5885c-3p, hpo-miR-5885c-5p, hpo-miR-5895-3p, hpo-miR-5895-5p, hpo-miR-5896-3p, hpo-miR-5896-5p, hpo-miR-5897-3p, hpo-miR-5897-5p, hpo-miR-5898-3p, hpo-miR-5898-5p, hpo-miR-5899a-3p, hpo-miR-5899a-5p, hpo-miR-5899b-3p, hpo-miR-5899b-5p, hpo-miR-59-3p, hpo-miR-59-5p, hpo-miR-5902-3p, hpo-miR-5902-5p, hpo-miR-5906-3p, hpo-miR-5906-5p, hpo-miR-5908-3p, hpo-miR-5908-5p, hpo-miR-5915-3p, hpo-miR-5915-5p, hpo-miR-5932-3p, hpo-miR-5932-5p, hpo-miR-5948-3p, hpo-miR-5948-5p, hpo-miR-5976-3p, hpo-miR-5976-5p, hpo-miR-5983-3p, hpo-miR-5983-5p, hpo-miR-60a-3p, hpo-miR-60a-5p, hpo-miR-60b-3p, hpo-miR-60b-5p, hpo-miR-61a-3p, hpo-miR-61a-5p, hpo-miR-61b-3p, hpo-miR-61b-5p, hpo-miR-63a-3p, hpo-miR-63a-5p, hpo-miR-63b-3p, hpo-miR-63b-5p, hpo-miR-7-3p, hpo-miR-7-5p, hpo-miR-71-3p, hpo-miR-71-5p, hpo-miR-72-3p, hpo-miR-72-5p, hpo-miR-750-3p, hpo-miR-750-5p, hpo-miR-76-3p, hpo-miR-76-5p, hpo-miR-79-3p, hpo-miR-79-5p, hpo-miR-790-3p, hpo-miR-790-5p, hpo-miR-81-3p, hpo-miR-81-5p, hpo-miR-83-3p, hpo-miR-83-5p, hpo-miR-84a-3p, hpo-miR-84a-5p, hpo-miR-86-3p, hpo-miR-86-5p, hpo-miR-87a-3p, hpo-miR-87a-5p, hpo-miR-87b-3p, hpo-miR-87b-5p, hpo-miR-9-3p, hpo-miR-9-5p, hpo-miR-993-3p, hpo-miR-993-5p, hru-miR-1984, hru-miR-1985, hru-miR-1986, hru-miR-1990, hru-miR-1991, hsa-let-7a-2-3p, hsa-let-7a-3p, hsa-let-7a-5p, hsa-let-7b-3p, hsa-

let-7b-5p, hsa-let-7c-3p, hsa-let-7c-5p, hsa-let-7d-3p, hsa-let-7d-5p, hsa-let-7e-3p, hsa-let-7e-5p, hsa-let-7f-1-3p, hsa-let-7f-2-3p, hsa-let-7f-5p, hsa-let-7g-3p, hsa-let-7g-5p, hsa-let-7i-3p, hsa-let-7i-5p, hsa-miR-1-3p, hsa-miR-1-5p, hsa-miR-100-3p, hsa-miR-100-5p, hsa-miR-101-2-5p, hsa-miR-101-3p, hsa-miR-101-5p, hsa-miR-10226, hsa-miR-10392-3p, hsa-miR-10392-5p, hsa-miR-10393-3p, hsa-miR-10393-5p, hsa-miR-10394-3p, hsa-miR-10394-5p, hsa-miR-10395-3p, hsa-miR-10395-5p, hsa-miR-10396a-3p, hsa-miR-10396a-5p, hsa-miR-10396b-3p, hsa-miR-10396b-5p, hsa-miR-10397-3p, hsa-miR-10397-5p, hsa-miR-10398-3p, hsa-miR-10398-5p, hsa-miR-10399-3p, hsa-miR-10399-5p, hsa-miR-103a-1-5p, hsa-miR-103a-2-5p, hsa-miR-103a-3p, hsa-miR-103b, hsa-miR-10400-3p, hsa-miR-10400-5p, hsa-miR-10401-3p, hsa-miR-10401-5p, hsa-miR-105-3p, hsa-miR-105-5p, hsa-miR-10522-5p, hsa-miR-10523-5p, hsa-miR-10524-5p, hsa-miR-10525-3p, hsa-miR-10526-3p, hsa-miR-10527-5p, hsa-miR-106a-3p, hsa-miR-106a-5p, hsa-miR-106b-3p, hsa-miR-106b-5p, hsa-miR-107, hsa-miR-10a-3p, hsa-miR-10a-5p, hsa-miR-10b-3p, hsa-miR-10b-5p, hsa-miR-11181-3p, hsa-miR-11181-5p, hsa-miR-11399, hsa-miR-11400, hsa-miR-11401, hsa-miR-1178-3p, hsa-miR-1178-5p, hsa-miR-1179, hsa-miR-1180-3p, hsa-miR-1180-5p, hsa-miR-1181, hsa-miR-1182, hsa-miR-1183, hsa-miR-1184, hsa-miR-1185-1-3p, hsa-miR-1185-2-3p, hsa-miR-1185-5p, hsa-miR-1193, hsa-miR-1197, hsa-miR-1199-3p, hsa-miR-1199-5p, hsa-miR-1200, hsa-miR-1202, hsa-miR-1203, hsa-miR-1204, hsa-miR-1205, hsa-miR-1206, hsa-miR-1207-3p, hsa-miR-1207-5p, hsa-miR-1208, hsa-miR-12113, hsa-miR-12114, hsa-miR-12115, hsa-miR-12116, hsa-miR-12117, hsa-miR-12118, hsa-miR-12119, hsa-miR-12120, hsa-miR-12121, hsa-miR-12122, hsa-miR-12123, hsa-miR-12124, hsa-miR-12125, hsa-miR-12126, hsa-miR-12127, hsa-miR-12128, hsa-miR-12129, hsa-miR-12130, hsa-miR-12131, hsa-miR-12132, hsa-miR-12133, hsa-miR-12135, hsa-miR-12136, hsa-miR-122-3p, hsa-miR-122-5p, hsa-miR-1224-3p, hsa-miR-1224-5p, hsa-miR-1225-3p, hsa-miR-1225-5p, hsa-miR-1226-3p, hsa-miR-1226-5p, hsa-miR-1227-3p, hsa-miR-1227-5p, hsa-miR-1228-3p, hsa-miR-1228-5p, hsa-miR-1229-3p, hsa-miR-1229-5p, hsa-miR-122b-3p, hsa-miR-122b-5p, hsa-miR-1231, hsa-miR-1233-3p, hsa-miR-1233-5p, hsa-miR-1234-3p, hsa-miR-1236-3p, hsa-miR-1236-5p, hsa-miR-1237-3p, hsa-miR-1237-5p, hsa-miR-1238-3p, hsa-miR-1238-5p, hsa-miR-124-3p, hsa-miR-124-5p, hsa-miR-1243, hsa-miR-1244, hsa-miR-1245a, hsa-miR-1245b-3p, hsa-miR-1245b-5p, hsa-miR-1246, hsa-miR-1247-3p, hsa-miR-1247-5p, hsa-miR-1248, hsa-miR-1249-3p, hsa-miR-1249-5p, hsa-miR-1250-3p, hsa-miR-1250-5p, hsa-miR-1251-3p, hsa-miR-1251-5p, hsa-miR-1252-3p, hsa-miR-1252-5p, hsa-miR-1253, hsa-miR-1255a, hsa-miR-1255b-2-3p, hsa-miR-1255b-5p, hsa-miR-1256, hsa-miR-1257, hsa-miR-1258, hsa-miR-125a-3p, hsa-miR-125a-5p, hsa-miR-125b-1-3p, hsa-miR-125b-2-3p, hsa-

miR-125b-5p, hsa-miR-126-3p, hsa-miR-126-5p, hsa-miR-1260a, hsa-miR-1260b, hsa-miR-1261, hsa-miR-1262, hsa-miR-1263, hsa-miR-1264, hsa-miR-1265, hsa-miR-1266-3p, hsa-miR-1266-5p, hsa-miR-1267, hsa-miR-1268a, hsa-miR-1268b, hsa-miR-1269a, hsa-miR-1269b, hsa-miR-127-3p, hsa-miR-127-5p, hsa-miR-1270, hsa-miR-1271-3p, hsa-miR-1271-5p, hsa-miR-1272, hsa-miR-1273c, hsa-miR-1273h-3p, hsa-miR-1273h-5p, hsa-miR-1275, hsa-miR-1276, hsa-miR-1277-3p, hsa-miR-1277-5p, hsa-miR-1278, hsa-miR-1279, hsa-miR-128-1-5p, hsa-miR-128-2-5p, hsa-miR-128-3p, hsa-miR-1281, hsa-miR-1282, hsa-miR-1283, hsa-miR-1284, hsa-miR-1285-3p, hsa-miR-1285-5p, hsa-miR-1286, hsa-miR-1287-3p, hsa-miR-1287-5p, hsa-miR-1288-3p, hsa-miR-1288-5p, hsa-miR-1289, hsa-miR-129-1-3p, hsa-miR-129-2-3p, hsa-miR-129-5p, hsa-miR-1290, hsa-miR-1291, hsa-miR-1292-3p, hsa-miR-1292-5p, hsa-miR-1293, hsa-miR-1294, hsa-miR-1295a, hsa-miR-1295b-3p, hsa-miR-1295b-5p, hsa-miR-1296-3p, hsa-miR-1296-5p, hsa-miR-1297, hsa-miR-1298-3p, hsa-miR-1298-5p, hsa-miR-1299, hsa-miR-1301-3p, hsa-miR-1301-5p, hsa-miR-1302, hsa-miR-1303, hsa-miR-1304-3p, hsa-miR-1304-5p, hsa-miR-1305, hsa-miR-1306-3p, hsa-miR-1306-5p, hsa-miR-1307-3p, hsa-miR-1307-5p, hsa-miR-130a-3p, hsa-miR-130a-5p, hsa-miR-130b-3p, hsa-miR-130b-5p, hsa-miR-132-3p, hsa-miR-132-5p, hsa-miR-1321, hsa-miR-1322, hsa-miR-1323, hsa-miR-1324, hsa-miR-133a-3p, hsa-miR-133a-5p, hsa-miR-133b, hsa-miR-134-3p, hsa-miR-134-5p, hsa-miR-1343-3p, hsa-miR-1343-5p, hsa-miR-135a-2-3p, hsa-miR-135a-3p, hsa-miR-135a-5p, hsa-miR-135b-3p, hsa-miR-135b-5p, hsa-miR-136-3p, hsa-miR-136-5p, hsa-miR-137-3p, hsa-miR-137-5p, hsa-miR-138-1-3p, hsa-miR-138-2-3p, hsa-miR-138-5p, hsa-miR-139-3p, hsa-miR-139-5p, hsa-miR-140-3p, hsa-miR-140-5p, hsa-miR-141-3p, hsa-miR-141-5p, hsa-miR-142-3p, hsa-miR-142-5p, hsa-miR-143-3p, hsa-miR-143-5p, hsa-miR-144-3p, hsa-miR-144-5p, hsa-miR-145-3p, hsa-miR-145-5p, hsa-miR-1468-3p, hsa-miR-1468-5p, hsa-miR-1469, hsa-miR-146a-3p, hsa-miR-146a-5p, hsa-miR-146b-3p, hsa-miR-146b-5p, hsa-miR-1470, hsa-miR-1471, hsa-miR-147a, hsa-miR-147b-3p, hsa-miR-147b-5p, hsa-miR-148a-3p, hsa-miR-148a-5p, hsa-miR-148b-3p, hsa-miR-148b-5p, hsa-miR-149-3p, hsa-miR-149-5p, hsa-miR-150-3p, hsa-miR-150-5p, hsa-miR-151a-3p, hsa-miR-151a-5p, hsa-miR-151b, hsa-miR-152-3p, hsa-miR-152-5p, hsa-miR-153-3p, hsa-miR-153-5p, hsa-miR-1537-3p, hsa-miR-1537-5p, hsa-miR-1538, hsa-miR-1539, hsa-miR-154-3p, hsa-miR-154-5p, hsa-miR-155-3p, hsa-miR-155-5p, hsa-miR-1587, hsa-miR-15a-3p, hsa-miR-15a-5p, hsa-miR-15b-3p, hsa-miR-15b-5p, hsa-miR-16-1-3p, hsa-miR-16-2-3p, hsa-miR-16-5p, hsa-miR-17-3p, hsa-miR-17-5p, hsa-miR-181a-2-3p, hsa-miR-181a-3p, hsa-miR-181a-5p, hsa-miR-181b-2-3p, hsa-miR-181b-3p, hsa-miR-181b-5p, hsa-miR-181c-3p, hsa-miR-181c-5p, hsa-miR-181d-3p, hsa-miR-181d-5p, hsa-miR-182-3p, hsa-miR-182-5p, hsa-

miR-1825, hsa-miR-1827, hsa-miR-183-3p, hsa-miR-183-5p, hsa-miR-184, hsa-miR-1843, hsa-miR-185-3p, hsa-miR-185-5p, hsa-miR-186-3p, hsa-miR-186-5p, hsa-miR-187-3p, hsa-miR-187-5p, hsa-miR-188-3p, hsa-miR-188-5p, hsa-miR-18a-3p, hsa-miR-18a-5p, hsa-miR-18b-3p, hsa-miR-18b-5p, hsa-miR-1908-3p, hsa-miR-1908-5p, hsa-miR-1909-3p, hsa-miR-1909-5p, hsa-miR-190a-3p, hsa-miR-190a-5p, hsa-miR-190b-3p, hsa-miR-190b-5p, hsa-miR-191-3p, hsa-miR-191-5p, hsa-miR-1910-3p, hsa-miR-1910-5p, hsa-miR-1911-3p, hsa-miR-1911-5p, hsa-miR-1912-3p, hsa-miR-1912-5p, hsa-miR-1913, hsa-miR-1914-3p, hsa-miR-1914-5p, hsa-miR-1915-3p, hsa-miR-1915-5p, hsa-miR-192-3p, hsa-miR-192-5p, hsa-miR-193a-3p, hsa-miR-193a-5p, hsa-miR-193b-3p, hsa-miR-193b-5p, hsa-miR-194-3p, hsa-miR-194-5p, hsa-miR-195-3p, hsa-miR-195-5p, hsa-miR-196a-1-3p, hsa-miR-196a-3p, hsa-miR-196a-5p, hsa-miR-196b-3p, hsa-miR-196b-5p, hsa-miR-197-3p, hsa-miR-197-5p, hsa-miR-1972, hsa-miR-1973, hsa-miR-1976, hsa-miR-198, hsa-miR-199a-3p, hsa-miR-199a-5p, hsa-miR-199b-3p, hsa-miR-199b-5p, hsa-miR-19a-3p, hsa-miR-19a-5p, hsa-miR-19b-1-5p, hsa-miR-19b-2-5p, hsa-miR-19b-3p, hsa-miR-200a-3p, hsa-miR-200a-5p, hsa-miR-200b-3p, hsa-miR-200b-5p, hsa-miR-200c-3p, hsa-miR-200c-5p, hsa-miR-202-3p, hsa-miR-202-5p, hsa-miR-203a-3p, hsa-miR-203a-5p, hsa-miR-203b-3p, hsa-miR-203b-5p, hsa-miR-204-3p, hsa-miR-204-5p, hsa-miR-205-3p, hsa-miR-205-5p, hsa-miR-2052, hsa-miR-2053, hsa-miR-2054, hsa-miR-206, hsa-miR-208a-3p, hsa-miR-208a-5p, hsa-miR-208b-3p, hsa-miR-208b-5p, hsa-miR-20a-3p, hsa-miR-20a-5p, hsa-miR-20b-3p, hsa-miR-20b-5p, hsa-miR-21-3p, hsa-miR-21-5p, hsa-miR-210-3p, hsa-miR-210-5p, hsa-miR-211-3p, hsa-miR-211-5p, hsa-miR-2110, hsa-miR-2113, hsa-miR-2114-3p, hsa-miR-2114-5p, hsa-miR-2115-3p, hsa-miR-2115-5p, hsa-miR-2116-3p, hsa-miR-2116-5p, hsa-miR-2117, hsa-miR-212-3p, hsa-miR-212-5p, hsa-miR-214-3p, hsa-miR-214-5p, hsa-miR-215-3p, hsa-miR-215-5p, hsa-miR-216a-3p, hsa-miR-216a-5p, hsa-miR-216b-3p, hsa-miR-216b-5p, hsa-miR-217-3p, hsa-miR-217-5p, hsa-miR-218-1-3p, hsa-miR-218-2-3p, hsa-miR-218-5p, hsa-miR-219a-1-3p, hsa-miR-219a-2-3p, hsa-miR-219a-5p, hsa-miR-219b-3p, hsa-miR-219b-5p, hsa-miR-22-3p, hsa-miR-22-5p, hsa-miR-221-3p, hsa-miR-221-5p, hsa-miR-222-3p, hsa-miR-222-5p, hsa-miR-223-3p, hsa-miR-223-5p, hsa-miR-224-3p, hsa-miR-224-5p, hsa-miR-2276-3p, hsa-miR-2276-5p, hsa-miR-2277-3p, hsa-miR-2277-5p, hsa-miR-2278, hsa-miR-2355-3p, hsa-miR-2355-5p, hsa-miR-2392, hsa-miR-23a-3p, hsa-miR-23a-5p, hsa-miR-23b-3p, hsa-miR-23b-5p, hsa-miR-23c, hsa-miR-24-1-5p, hsa-miR-24-2-5p, hsa-miR-24-3p, hsa-miR-2467-3p, hsa-miR-2467-5p, hsa-miR-25-3p, hsa-miR-25-5p, hsa-miR-2681-3p, hsa-miR-2681-5p, hsa-miR-2682-3p, hsa-miR-2682-5p, hsa-miR-26a-1-3p, hsa-miR-26a-2-3p, hsa-miR-26a-5p, hsa-miR-26b-3p, hsa-miR-26b-5p, hsa-miR-27a-3p, hsa-miR-27a-5p, hsa-miR-27b-3p, hsa-miR-

27b-5p, hsa-miR-28-3p, hsa-miR-28-5p, hsa-miR-2861, hsa-miR-2909, hsa-miR-296-3p, hsa-miR-296-5p, hsa-miR-297, hsa-miR-298, hsa-miR-299-3p, hsa-miR-299-5p, hsa-miR-29a-3p, hsa-miR-29a-5p, hsa-miR-29b-1-5p, hsa-miR-29b-2-5p, hsa-miR-29b-3p, hsa-miR-29c-3p, hsa-miR-29c-5p, hsa-miR-300, hsa-miR-301a-3p, hsa-miR-301a-5p, hsa-miR-301b-3p, hsa-miR-301b-5p, hsa-miR-302a-3p, hsa-miR-302a-5p, hsa-miR-302b-3p, hsa-miR-302b-5p, hsa-miR-302c-3p, hsa-miR-302c-5p, hsa-miR-302d-3p, hsa-miR-302d-5p, hsa-miR-302e, hsa-miR-302f, hsa-miR-3059-3p, hsa-miR-3059-5p, hsa-miR-3064-3p, hsa-miR-3064-5p, hsa-miR-3065-3p, hsa-miR-3065-5p, hsa-miR-3074-3p, hsa-miR-3074-5p, hsa-miR-3085-3p, hsa-miR-3085-5p, hsa-miR-30a-3p, hsa-miR-30a-5p, hsa-miR-30b-3p, hsa-miR-30b-5p, hsa-miR-30c-1-3p, hsa-miR-30c-2-3p, hsa-miR-30c-5p, hsa-miR-30d-3p, hsa-miR-30d-5p, hsa-miR-30e-3p, hsa-miR-30e-5p, hsa-miR-31-3p, hsa-miR-31-5p, hsa-miR-3115, hsa-miR-3116, hsa-miR-3117-3p, hsa-miR-3117-5p, hsa-miR-3118, hsa-miR-3119, hsa-miR-3120-3p, hsa-miR-3120-5p, hsa-miR-3121-3p, hsa-miR-3121-5p, hsa-miR-3122, hsa-miR-3123, hsa-miR-3124-3p, hsa-miR-3124-5p, hsa-miR-3125, hsa-miR-3126-3p, hsa-miR-3126-5p, hsa-miR-3127-3p, hsa-miR-3127-5p, hsa-miR-3128, hsa-miR-3129-3p, hsa-miR-3129-5p, hsa-miR-3130-3p, hsa-miR-3130-5p, hsa-miR-3131, hsa-miR-3132, hsa-miR-3133, hsa-miR-3134, hsa-miR-3135a, hsa-miR-3135b, hsa-miR-3136-3p, hsa-miR-3136-5p, hsa-miR-3137, hsa-miR-3138, hsa-miR-3139, hsa-miR-3140-3p, hsa-miR-3140-5p, hsa-miR-3141, hsa-miR-3142, hsa-miR-3143, hsa-miR-3144-3p, hsa-miR-3144-5p, hsa-miR-3145-3p, hsa-miR-3145-5p, hsa-miR-3146, hsa-miR-3147, hsa-miR-3148, hsa-miR-3149, hsa-miR-3150a-3p, hsa-miR-3150a-5p, hsa-miR-3150b-3p, hsa-miR-3150b-5p, hsa-miR-3151-3p, hsa-miR-3151-5p, hsa-miR-3152-3p, hsa-miR-3152-5p, hsa-miR-3153, hsa-miR-3154, hsa-miR-3155a, hsa-miR-3155b, hsa-miR-3156-3p, hsa-miR-3156-5p, hsa-miR-3157-3p, hsa-miR-3157-5p, hsa-miR-3158-3p, hsa-miR-3158-5p, hsa-miR-3159, hsa-miR-3160-3p, hsa-miR-3160-5p, hsa-miR-3161, hsa-miR-3162-3p, hsa-miR-3162-5p, hsa-miR-3163, hsa-miR-3164, hsa-miR-3165, hsa-miR-3166, hsa-miR-3167, hsa-miR-3168, hsa-miR-3169, hsa-miR-3170, hsa-miR-3171, hsa-miR-3173-3p, hsa-miR-3173-5p, hsa-miR-3174, hsa-miR-3175, hsa-miR-3176, hsa-miR-3177-3p, hsa-miR-3177-5p, hsa-miR-3178, hsa-miR-3179, hsa-miR-3180, hsa-miR-3180-3p, hsa-miR-3180-5p, hsa-miR-3181, hsa-miR-3182, hsa-miR-3183, hsa-miR-3184-3p, hsa-miR-3184-5p, hsa-miR-3185, hsa-miR-3186-3p, hsa-miR-3186-5p, hsa-miR-3187-3p, hsa-miR-3187-5p, hsa-miR-3188, hsa-miR-3189-3p, hsa-miR-3189-5p, hsa-miR-3190-3p, hsa-miR-3190-5p, hsa-miR-3191-3p, hsa-miR-3191-5p, hsa-miR-3192-3p, hsa-miR-3192-5p, hsa-miR-3193, hsa-miR-3194-3p, hsa-miR-3194-5p, hsa-miR-3195, hsa-miR-3196, hsa-miR-3197, hsa-miR-3198, hsa-miR-3199, hsa-miR-32-3p, hsa-miR-32-5p, hsa-miR-3200-3p, hsa-

miR-3200-5p, hsa-miR-3201, hsa-miR-3202, hsa-miR-320a-3p, hsa-miR-320a-5p, hsa-miR-320b, hsa-miR-320c, hsa-miR-320d, hsa-miR-320e, hsa-miR-323a-3p, hsa-miR-323a-5p, hsa-miR-323b-3p, hsa-miR-323b-5p, hsa-miR-324-3p, hsa-miR-324-5p, hsa-miR-325, hsa-miR-326, hsa-miR-328-3p, hsa-miR-328-5p, hsa-miR-329-3p, hsa-miR-329-5p, hsa-miR-330-3p, hsa-miR-330-5p, hsa-miR-331-3p, hsa-miR-331-5p, hsa-miR-335-3p, hsa-miR-335-5p, hsa-miR-337-3p, hsa-miR-337-5p, hsa-miR-338-3p, hsa-miR-338-5p, hsa-miR-339-3p, hsa-miR-339-5p, hsa-miR-33a-3p, hsa-miR-33a-5p, hsa-miR-33b-3p, hsa-miR-33b-5p, hsa-miR-340-3p, hsa-miR-340-5p, hsa-miR-342-3p, hsa-miR-342-5p, hsa-miR-345-3p, hsa-miR-345-5p, hsa-miR-346, hsa-miR-34a-3p, hsa-miR-34a-5p, hsa-miR-34b-3p, hsa-miR-34b-5p, hsa-miR-34c-3p, hsa-miR-34c-5p, hsa-miR-3529-3p, hsa-miR-3529-5p, hsa-miR-3605-3p, hsa-miR-3605-5p, hsa-miR-3606-3p, hsa-miR-3606-5p, hsa-miR-3609, hsa-miR-361-3p, hsa-miR-361-5p, hsa-miR-3610, hsa-miR-3611, hsa-miR-3612, hsa-miR-3613-3p, hsa-miR-3613-5p, hsa-miR-3614-3p, hsa-miR-3614-5p, hsa-miR-3615, hsa-miR-3616-3p, hsa-miR-3616-5p, hsa-miR-3617-3p, hsa-miR-3617-5p, hsa-miR-3618, hsa-miR-3619-3p, hsa-miR-3619-5p, hsa-miR-362-3p, hsa-miR-362-5p, hsa-miR-3620-3p, hsa-miR-3620-5p, hsa-miR-3621, hsa-miR-3622a-3p, hsa-miR-3622a-5p, hsa-miR-3622b-3p, hsa-miR-3622b-5p, hsa-miR-363-3p, hsa-miR-363-5p, hsa-miR-3646, hsa-miR-3648, hsa-miR-3649, hsa-miR-3650, hsa-miR-3651, hsa-miR-3652, hsa-miR-3654, hsa-miR-3655, hsa-miR-3657, hsa-miR-3658, hsa-miR-3659, hsa-miR-365a-3p, hsa-miR-365a-5p, hsa-miR-365b-3p, hsa-miR-365b-5p, hsa-miR-3660, hsa-miR-3661, hsa-miR-3662, hsa-miR-3663-3p, hsa-miR-3663-5p, hsa-miR-3664-3p, hsa-miR-3664-5p, hsa-miR-3665, hsa-miR-3666, hsa-miR-3667-3p, hsa-miR-3667-5p, hsa-miR-3668, hsa-miR-367-3p, hsa-miR-367-5p, hsa-miR-3670, hsa-miR-3671, hsa-miR-3672, hsa-miR-3674, hsa-miR-3675-3p, hsa-miR-3675-5p, hsa-miR-3677-3p, hsa-miR-3677-5p, hsa-miR-3678-3p, hsa-miR-3678-5p, hsa-miR-3679-3p, hsa-miR-3679-5p, hsa-miR-3680-3p, hsa-miR-3680-5p, hsa-miR-3681-3p, hsa-miR-3681-5p, hsa-miR-3682-3p, hsa-miR-3682-5p, hsa-miR-3683, hsa-miR-3684, hsa-miR-3685, hsa-miR-3686, hsa-miR-3688-3p, hsa-miR-3688-5p, hsa-miR-3689a-3p, hsa-miR-3689a-5p, hsa-miR-3689b-3p, hsa-miR-3689b-5p, hsa-miR-3689c, hsa-miR-3689d, hsa-miR-3689e, hsa-miR-3689f, hsa-miR-369-3p, hsa-miR-369-5p, hsa-miR-3690, hsa-miR-3691-3p, hsa-miR-3691-5p, hsa-miR-3692-3p, hsa-miR-3692-5p, hsa-miR-370-3p, hsa-miR-370-5p, hsa-miR-3713, hsa-miR-3714, hsa-miR-371a-3p, hsa-miR-371a-5p, hsa-miR-371b-3p, hsa-miR-371b-5p, hsa-miR-372-3p, hsa-miR-372-5p, hsa-miR-373-3p, hsa-miR-373-5p, hsa-miR-374a-3p, hsa-miR-374a-5p, hsa-miR-374b-3p, hsa-miR-374b-5p, hsa-miR-374c-3p, hsa-miR-374c-5p, hsa-miR-375-3p, hsa-miR-375-5p, hsa-miR-376a-2-5p, hsa-miR-376a-3p, hsa-miR-376a-5p, hsa-miR-

376b-3p, hsa-miR-376b-5p, hsa-miR-376c-3p, hsa-miR-376c-5p, hsa-miR-377-3p, hsa-miR-377-5p, hsa-miR-378a-3p, hsa-miR-378a-5p, hsa-miR-378b, hsa-miR-378c, hsa-miR-378d, hsa-miR-378e, hsa-miR-378f, hsa-miR-378g, hsa-miR-378h, hsa-miR-378i, hsa-miR-378j, hsa-miR-379-3p, hsa-miR-379-5p, hsa-miR-380-3p, hsa-miR-380-5p, hsa-miR-381-3p, hsa-miR-381-5p, hsa-miR-382-3p, hsa-miR-382-5p, hsa-miR-383-3p, hsa-miR-383-5p, hsa-miR-384, hsa-miR-3907, hsa-miR-3908, hsa-miR-3909, hsa-miR-3910, hsa-miR-3911, hsa-miR-3912-3p, hsa-miR-3912-5p, hsa-miR-3913-3p, hsa-miR-3913-5p, hsa-miR-3914, hsa-miR-3915, hsa-miR-3916, hsa-miR-3917, hsa-miR-3918, hsa-miR-3919, hsa-miR-3920, hsa-miR-3921, hsa-miR-3922-3p, hsa-miR-3922-5p, hsa-miR-3923, hsa-miR-3924, hsa-miR-3925-3p, hsa-miR-3925-5p, hsa-miR-3926, hsa-miR-3927-3p, hsa-miR-3927-5p, hsa-miR-3928-3p, hsa-miR-3928-5p, hsa-miR-3929, hsa-miR-3934-3p, hsa-miR-3934-5p, hsa-miR-3935, hsa-miR-3936, hsa-miR-3937, hsa-miR-3938, hsa-miR-3939, hsa-miR-3940-3p, hsa-miR-3940-5p, hsa-miR-3941, hsa-miR-3942-3p, hsa-miR-3942-5p, hsa-miR-3943, hsa-miR-3944-3p, hsa-miR-3944-5p, hsa-miR-3945, hsa-miR-3960, hsa-miR-3972, hsa-miR-3973, hsa-miR-3974, hsa-miR-3975, hsa-miR-3976, hsa-miR-3977, hsa-miR-3978, hsa-miR-409-3p, hsa-miR-409-5p, hsa-miR-410-3p, hsa-miR-410-5p, hsa-miR-411-3p, hsa-miR-411-5p, hsa-miR-412-3p, hsa-miR-412-5p, hsa-miR-421, hsa-miR-422a, hsa-miR-423-3p, hsa-miR-423-5p, hsa-miR-424-3p, hsa-miR-424-5p, hsa-miR-425-3p, hsa-miR-425-5p, hsa-miR-4251, hsa-miR-4252, hsa-miR-4253, hsa-miR-4254, hsa-miR-4255, hsa-miR-4256, hsa-miR-4257, hsa-miR-4258, hsa-miR-4259, hsa-miR-4260, hsa-miR-4261, hsa-miR-4262, hsa-miR-4263, hsa-miR-4264, hsa-miR-4265, hsa-miR-4266, hsa-miR-4267, hsa-miR-4268, hsa-miR-4269, hsa-miR-4270, hsa-miR-4271, hsa-miR-4272, hsa-miR-4273, hsa-miR-4274, hsa-miR-4275, hsa-miR-4276, hsa-miR-4277, hsa-miR-4278, hsa-miR-4279, hsa-miR-4280, hsa-miR-4281, hsa-miR-4282, hsa-miR-4283, hsa-miR-4284, hsa-miR-4285, hsa-miR-4286, hsa-miR-4287, hsa-miR-4288, hsa-miR-4289, hsa-miR-429, hsa-miR-4290, hsa-miR-4291, hsa-miR-4292, hsa-miR-4293, hsa-miR-4294, hsa-miR-4295, hsa-miR-4296, hsa-miR-4297, hsa-miR-4298, hsa-miR-4299, hsa-miR-4300, hsa-miR-4301, hsa-miR-4302, hsa-miR-4303, hsa-miR-4304, hsa-miR-4305, hsa-miR-4306, hsa-miR-4307, hsa-miR-4308, hsa-miR-4309, hsa-miR-431-3p, hsa-miR-431-5p, hsa-miR-4310, hsa-miR-4311, hsa-miR-4312, hsa-miR-4313, hsa-miR-4314, hsa-miR-4315, hsa-miR-4316, hsa-miR-4317, hsa-miR-4318, hsa-miR-4319, hsa-miR-432-3p, hsa-miR-432-5p, hsa-miR-4320, hsa-miR-4321, hsa-miR-4322, hsa-miR-4323, hsa-miR-4324, hsa-miR-4325, hsa-miR-4326, hsa-miR-4327, hsa-miR-4328, hsa-miR-4329, hsa-miR-433-3p, hsa-miR-433-5p, hsa-miR-4330, hsa-miR-4418, hsa-miR-4420, hsa-miR-4421, hsa-miR-4422, hsa-miR-4423-3p, hsa-miR-4423-5p, hsa-miR-4424, hsa-miR-4425, hsa-miR-

4426, hsa-miR-4427, hsa-miR-4428, hsa-miR-4429, hsa-miR-4430, hsa-miR-4431, hsa-miR-4432, hsa-miR-4433a-3p, hsa-miR-4433a-5p, hsa-miR-4433b-3p, hsa-miR-4433b-5p, hsa-miR-4434, hsa-miR-4435, hsa-miR-4436a, hsa-miR-4436b-3p, hsa-miR-4436b-5p, hsa-miR-4437, hsa-miR-4438, hsa-miR-4439, hsa-miR-4440, hsa-miR-4441, hsa-miR-4442, hsa-miR-4443, hsa-miR-4444, hsa-miR-4445-3p, hsa-miR-4445-5p, hsa-miR-4446-3p, hsa-miR-4446-5p, hsa-miR-4447, hsa-miR-4448, hsa-miR-4449, hsa-miR-4450, hsa-miR-4451, hsa-miR-4452, hsa-miR-4453, hsa-miR-4454, hsa-miR-4455, hsa-miR-4456, hsa-miR-4457, hsa-miR-4458, hsa-miR-4460, hsa-miR-4462, hsa-miR-4463, hsa-miR-4464, hsa-miR-4465, hsa-miR-4466, hsa-miR-4467, hsa-miR-4468, hsa-miR-4469, hsa-miR-4470, hsa-miR-4471, hsa-miR-4472, hsa-miR-4473, hsa-miR-4474-3p, hsa-miR-4474-5p, hsa-miR-4475, hsa-miR-4476, hsa-miR-4477a, hsa-miR-4477b, hsa-miR-4478, hsa-miR-4479, hsa-miR-448, hsa-miR-4480, hsa-miR-4481, hsa-miR-4482-3p, hsa-miR-4482-5p, hsa-miR-4483, hsa-miR-4484, hsa-miR-4485-3p, hsa-miR-4485-5p, hsa-miR-4486, hsa-miR-4487, hsa-miR-4488, hsa-miR-4489, hsa-miR-4490, hsa-miR-4491, hsa-miR-4492, hsa-miR-4493, hsa-miR-4494, hsa-miR-4495, hsa-miR-4496, hsa-miR-4497, hsa-miR-4498, hsa-miR-4499, hsa-miR-449a, hsa-miR-449b-3p, hsa-miR-449b-5p, hsa-miR-449c-3p, hsa-miR-449c-5p, hsa-miR-4500, hsa-miR-4501, hsa-miR-4502, hsa-miR-4503, hsa-miR-4504, hsa-miR-4505, hsa-miR-4506, hsa-miR-4507, hsa-miR-4508, hsa-miR-4509, hsa-miR-450a-1-3p, hsa-miR-450a-2-3p, hsa-miR-450a-5p, hsa-miR-450b-3p, hsa-miR-450b-5p, hsa-miR-4510, hsa-miR-4511, hsa-miR-4512, hsa-miR-4513, hsa-miR-4514, hsa-miR-4515, hsa-miR-4516, hsa-miR-4517, hsa-miR-4518, hsa-miR-4519, hsa-miR-451a, hsa-miR-451b, hsa-miR-452-3p, hsa-miR-452-5p, hsa-miR-4520-2-3p, hsa-miR-4520-3p, hsa-miR-4520-5p, hsa-miR-4521, hsa-miR-4522, hsa-miR-4523, hsa-miR-4524a-3p, hsa-miR-4524a-5p, hsa-miR-4524b-3p, hsa-miR-4524b-5p, hsa-miR-4525, hsa-miR-4526, hsa-miR-4527, hsa-miR-4528, hsa-miR-4529-3p, hsa-miR-4529-5p, hsa-miR-4530, hsa-miR-4531, hsa-miR-4533, hsa-miR-4534, hsa-miR-4535, hsa-miR-4536-3p, hsa-miR-4536-5p, hsa-miR-4537, hsa-miR-4538, hsa-miR-4539, hsa-miR-454-3p, hsa-miR-454-5p, hsa-miR-4540, hsa-miR-455-3p, hsa-miR-455-5p, hsa-miR-4632-3p, hsa-miR-4632-5p, hsa-miR-4633-3p, hsa-miR-4633-5p, hsa-miR-4634, hsa-miR-4635, hsa-miR-4636, hsa-miR-4637, hsa-miR-4638-3p, hsa-miR-4638-5p, hsa-miR-4639-3p, hsa-miR-4639-5p, hsa-miR-4640-3p, hsa-miR-4640-5p, hsa-miR-4641, hsa-miR-4642, hsa-miR-4643, hsa-miR-4644, hsa-miR-4645-3p, hsa-miR-4645-5p, hsa-miR-4646-3p, hsa-miR-4646-5p, hsa-miR-4647, hsa-miR-4648, hsa-miR-4649-3p, hsa-miR-4649-5p, hsa-miR-4650-3p, hsa-miR-4650-5p, hsa-miR-4651, hsa-miR-4652-3p, hsa-miR-4652-5p, hsa-miR-4653-3p, hsa-miR-4653-5p, hsa-miR-4654, hsa-miR-4655-3p, hsa-miR-4655-5p, hsa-miR-4656, hsa-miR-4657, hsa-miR-

4658, hsa-miR-4659a-3p, hsa-miR-4659a-5p, hsa-miR-4659b-3p, hsa-miR-4659b-5p, hsa-miR-466, hsa-miR-4660, hsa-miR-4661-3p, hsa-miR-4661-5p, hsa-miR-4662a-3p, hsa-miR-4662a-5p, hsa-miR-4662b, hsa-miR-4663, hsa-miR-4664-3p, hsa-miR-4664-5p, hsa-miR-4665-3p, hsa-miR-4665-5p, hsa-miR-4666a-3p, hsa-miR-4666a-5p, hsa-miR-4666b, hsa-miR-4667-3p, hsa-miR-4667-5p, hsa-miR-4668-3p, hsa-miR-4668-5p, hsa-miR-4669, hsa-miR-4670-3p, hsa-miR-4670-5p, hsa-miR-4671-3p, hsa-miR-4671-5p, hsa-miR-4672, hsa-miR-4673, hsa-miR-4674, hsa-miR-4675, hsa-miR-4676-3p, hsa-miR-4676-5p, hsa-miR-4677-3p, hsa-miR-4677-5p, hsa-miR-4678, hsa-miR-4679, hsa-miR-4680-3p, hsa-miR-4680-5p, hsa-miR-4681, hsa-miR-4682, hsa-miR-4683, hsa-miR-4684-3p, hsa-miR-4684-5p, hsa-miR-4685-3p, hsa-miR-4685-5p, hsa-miR-4686, hsa-miR-4687-3p, hsa-miR-4687-5p, hsa-miR-4688, hsa-miR-4689, hsa-miR-4690-3p, hsa-miR-4690-5p, hsa-miR-4691-3p, hsa-miR-4691-5p, hsa-miR-4692, hsa-miR-4693-3p, hsa-miR-4693-5p, hsa-miR-4694-3p, hsa-miR-4694-5p, hsa-miR-4695-3p, hsa-miR-4695-5p, hsa-miR-4696, hsa-miR-4697-3p, hsa-miR-4697-5p, hsa-miR-4698, hsa-miR-4699-3p, hsa-miR-4699-5p, hsa-miR-4700-3p, hsa-miR-4700-5p, hsa-miR-4701-3p, hsa-miR-4701-5p, hsa-miR-4703-3p, hsa-miR-4703-5p, hsa-miR-4704-3p, hsa-miR-4704-5p, hsa-miR-4705, hsa-miR-4706, hsa-miR-4707-3p, hsa-miR-4707-5p, hsa-miR-4708-3p, hsa-miR-4708-5p, hsa-miR-4709-3p, hsa-miR-4709-5p, hsa-miR-4710, hsa-miR-4711-3p, hsa-miR-4711-5p, hsa-miR-4712-3p, hsa-miR-4712-5p, hsa-miR-4713-3p, hsa-miR-4713-5p, hsa-miR-4714-3p, hsa-miR-4714-5p, hsa-miR-4715-3p, hsa-miR-4715-5p, hsa-miR-4716-3p, hsa-miR-4716-5p, hsa-miR-4717-3p, hsa-miR-4717-5p, hsa-miR-4718, hsa-miR-4719, hsa-miR-4720-3p, hsa-miR-4720-5p, hsa-miR-4721, hsa-miR-4722-3p, hsa-miR-4722-5p, hsa-miR-4723-3p, hsa-miR-4723-5p, hsa-miR-4724-3p, hsa-miR-4724-5p, hsa-miR-4725-3p, hsa-miR-4725-5p, hsa-miR-4726-3p, hsa-miR-4726-5p, hsa-miR-4727-3p, hsa-miR-4727-5p, hsa-miR-4728-3p, hsa-miR-4728-5p, hsa-miR-4729, hsa-miR-4730, hsa-miR-4731-3p, hsa-miR-4731-5p, hsa-miR-4732-3p, hsa-miR-4732-5p, hsa-miR-4733-3p, hsa-miR-4733-5p, hsa-miR-4734, hsa-miR-4735-3p, hsa-miR-4735-5p, hsa-miR-4736, hsa-miR-4737, hsa-miR-4738-3p, hsa-miR-4738-5p, hsa-miR-4739, hsa-miR-4740-3p, hsa-miR-4740-5p, hsa-miR-4741, hsa-miR-4742-3p, hsa-miR-4742-5p, hsa-miR-4743-3p, hsa-miR-4743-5p, hsa-miR-4744, hsa-miR-4745-3p, hsa-miR-4745-5p, hsa-miR-4746-3p, hsa-miR-4746-5p, hsa-miR-4747-3p, hsa-miR-4747-5p, hsa-miR-4748, hsa-miR-4749-3p, hsa-miR-4749-5p, hsa-miR-4750-3p, hsa-miR-4750-5p, hsa-miR-4751, hsa-miR-4752, hsa-miR-4753-3p, hsa-miR-4753-5p, hsa-miR-4754, hsa-miR-4755-3p, hsa-miR-4755-5p, hsa-miR-4756-3p, hsa-miR-4756-5p, hsa-miR-4757-3p, hsa-miR-4757-5p, hsa-miR-4758-3p, hsa-miR-4758-5p, hsa-miR-4759, hsa-miR-4760-3p, hsa-miR-4760-5p, hsa-miR-

4761-3p, hsa-miR-4761-5p, hsa-miR-4762-3p, hsa-miR-4762-5p, hsa-miR-4763-3p, hsa-miR-4763-5p, hsa-miR-4764-3p, hsa-miR-4764-5p, hsa-miR-4765, hsa-miR-4766-3p, hsa-miR-4766-5p, hsa-miR-4767, hsa-miR-4768-3p, hsa-miR-4768-5p, hsa-miR-4769-3p, hsa-miR-4769-5p, hsa-miR-4770, hsa-miR-4771, hsa-miR-4772-3p, hsa-miR-4772-5p, hsa-miR-4773, hsa-miR-4774-3p, hsa-miR-4774-5p, hsa-miR-4775, hsa-miR-4776-3p, hsa-miR-4776-5p, hsa-miR-4777-3p, hsa-miR-4777-5p, hsa-miR-4778-3p, hsa-miR-4778-5p, hsa-miR-4779, hsa-miR-4780, hsa-miR-4781-3p, hsa-miR-4781-5p, hsa-miR-4782-3p, hsa-miR-4782-5p, hsa-miR-4783-3p, hsa-miR-4783-5p, hsa-miR-4784, hsa-miR-4785, hsa-miR-4786-3p, hsa-miR-4786-5p, hsa-miR-4787-3p, hsa-miR-4787-5p, hsa-miR-4788, hsa-miR-4789-3p, hsa-miR-4789-5p, hsa-miR-4790-3p, hsa-miR-4790-5p, hsa-miR-4791, hsa-miR-4793-3p, hsa-miR-4793-5p, hsa-miR-4794, hsa-miR-4795-3p, hsa-miR-4795-5p, hsa-miR-4796-3p, hsa-miR-4796-5p, hsa-miR-4797-3p, hsa-miR-4797-5p, hsa-miR-4798-3p, hsa-miR-4798-5p, hsa-miR-4799-3p, hsa-miR-4799-5p, hsa-miR-4800-3p, hsa-miR-4800-5p, hsa-miR-4801, hsa-miR-4802-3p, hsa-miR-4802-5p, hsa-miR-4803, hsa-miR-4804-3p, hsa-miR-4804-5p, hsa-miR-483-3p, hsa-miR-483-5p, hsa-miR-484, hsa-miR-485-3p, hsa-miR-485-5p, hsa-miR-486-3p, hsa-miR-486-5p, hsa-miR-487a-3p, hsa-miR-487a-5p, hsa-miR-487b-3p, hsa-miR-487b-5p, hsa-miR-488-3p, hsa-miR-488-5p, hsa-miR-489-3p, hsa-miR-489-5p, hsa-miR-490-3p, hsa-miR-490-5p, hsa-miR-491-3p, hsa-miR-491-5p, hsa-miR-492, hsa-miR-493-3p, hsa-miR-493-5p, hsa-miR-494-3p, hsa-miR-494-5p, hsa-miR-495-3p, hsa-miR-495-5p, hsa-miR-496, hsa-miR-497-3p, hsa-miR-497-5p, hsa-miR-498-3p, hsa-miR-498-5p, hsa-miR-4999-3p, hsa-miR-4999-5p, hsa-miR-499a-3p, hsa-miR-499a-5p, hsa-miR-499b-3p, hsa-miR-499b-5p, hsa-miR-5000-3p, hsa-miR-5000-5p, hsa-miR-5001-3p, hsa-miR-5001-5p, hsa-miR-5002-3p, hsa-miR-5002-5p, hsa-miR-5003-3p, hsa-miR-5003-5p, hsa-miR-5004-3p, hsa-miR-5004-5p, hsa-miR-5006-3p, hsa-miR-5006-5p, hsa-miR-5007-3p, hsa-miR-5007-5p, hsa-miR-5008-3p, hsa-miR-5008-5p, hsa-miR-5009-3p, hsa-miR-5009-5p, hsa-miR-500a-3p, hsa-miR-500a-5p, hsa-miR-500b-3p, hsa-miR-500b-5p, hsa-miR-501-3p, hsa-miR-501-5p, hsa-miR-5010-3p, hsa-miR-5010-5p, hsa-miR-5011-3p, hsa-miR-5011-5p, hsa-miR-502-3p, hsa-miR-502-5p, hsa-miR-503-3p, hsa-miR-503-5p, hsa-miR-504-3p, hsa-miR-504-5p, hsa-miR-5047, hsa-miR-505-3p, hsa-miR-505-5p, hsa-miR-506-3p, hsa-miR-506-5p, hsa-miR-507, hsa-miR-508-3p, hsa-miR-508-5p, hsa-miR-5087, hsa-miR-5088-3p, hsa-miR-5088-5p, hsa-miR-5089-3p, hsa-miR-5089-5p, hsa-miR-509-3-5p, hsa-miR-509-3p, hsa-miR-509-5p, hsa-miR-5090, hsa-miR-5091, hsa-miR-5092, hsa-miR-5093, hsa-miR-5094, hsa-miR-510-3p, hsa-miR-510-5p, hsa-miR-5100, hsa-miR-511-3p, hsa-miR-511-5p, hsa-miR-512-3p, hsa-miR-512-5p, hsa-miR-513a-3p, hsa-miR-513a-5p, hsa-miR-513b-3p, hsa-miR-513b-5p, hsa-

miR-513c-3p, hsa-miR-513c-5p, hsa-miR-514a-3p, hsa-miR-514a-5p, hsa-miR-514b-3p, hsa-miR-514b-5p, hsa-miR-515-3p, hsa-miR-515-5p, hsa-miR-516a-3p, hsa-miR-516a-5p, hsa-miR-516b-3p, hsa-miR-516b-5p, hsa-miR-517-5p, hsa-miR-517a-3p, hsa-miR-517b-3p, hsa-miR-517c-3p, hsa-miR-5186, hsa-miR-5187-3p, hsa-miR-5187-5p, hsa-miR-5188, hsa-miR-5189-3p, hsa-miR-5189-5p, hsa-miR-518a-3p, hsa-miR-518a-5p, hsa-miR-518b, hsa-miR-518c-3p, hsa-miR-518c-5p, hsa-miR-518d-3p, hsa-miR-518d-5p, hsa-miR-518e-3p, hsa-miR-518e-5p, hsa-miR-518f-3p, hsa-miR-518f-5p, hsa-miR-5190, hsa-miR-5191, hsa-miR-5192, hsa-miR-5193, hsa-miR-5194, hsa-miR-5195-3p, hsa-miR-5195-5p, hsa-miR-5196-3p, hsa-miR-5196-5p, hsa-miR-5197-3p, hsa-miR-5197-5p, hsa-miR-519a-2-5p, hsa-miR-519a-3p, hsa-miR-519a-5p, hsa-miR-519b-3p, hsa-miR-519b-5p, hsa-miR-519c-3p, hsa-miR-519c-5p, hsa-miR-519d-3p, hsa-miR-519d-5p, hsa-miR-519e-3p, hsa-miR-519e-5p, hsa-miR-520a-3p, hsa-miR-520a-5p, hsa-miR-520b-3p, hsa-miR-520b-5p, hsa-miR-520c-3p, hsa-miR-520c-5p, hsa-miR-520d-3p, hsa-miR-520d-5p, hsa-miR-520e-3p, hsa-miR-520e-5p, hsa-miR-520f-3p, hsa-miR-520f-5p, hsa-miR-520g-3p, hsa-miR-520g-5p, hsa-miR-520h, hsa-miR-521, hsa-miR-522-3p, hsa-miR-522-5p, hsa-miR-523-3p, hsa-miR-523-5p, hsa-miR-524-3p, hsa-miR-524-5p, hsa-miR-525-3p, hsa-miR-525-5p, hsa-miR-526a-3p, hsa-miR-526a-5p, hsa-miR-526b-3p, hsa-miR-526b-5p, hsa-miR-527, hsa-miR-532-3p, hsa-miR-532-5p, hsa-miR-539-3p, hsa-miR-539-5p, hsa-miR-541-3p, hsa-miR-541-5p, hsa-miR-542-3p, hsa-miR-542-5p, hsa-miR-543, hsa-miR-544a, hsa-miR-544b, hsa-miR-545-3p, hsa-miR-545-5p, hsa-miR-548a-3p, hsa-miR-548a-5p, hsa-miR-548aa, hsa-miR-548ab, hsa-miR-548ac, hsa-miR-548ad-3p, hsa-miR-548ad-5p, hsa-miR-548ae-3p, hsa-miR-548ae-5p, hsa-miR-548ag, hsa-miR-548ah-3p, hsa-miR-548ah-5p, hsa-miR-548ai, hsa-miR-548aj-3p, hsa-miR-548aj-5p, hsa-miR-548ak, hsa-miR-548al, hsa-miR-548am-3p, hsa-miR-548am-5p, hsa-miR-548an, hsa-miR-548ao-3p, hsa-miR-548ao-5p, hsa-miR-548ap-3p, hsa-miR-548ap-5p, hsa-miR-548aq-3p, hsa-miR-548aq-5p, hsa-miR-548ar-3p, hsa-miR-548ar-5p, hsa-miR-548as-3p, hsa-miR-548as-5p, hsa-miR-548at-3p, hsa-miR-548at-5p, hsa-miR-548au-3p, hsa-miR-548au-5p, hsa-miR-548av-3p, hsa-miR-548av-5p, hsa-miR-548aw, hsa-miR-548ax, hsa-miR-548ay-3p, hsa-miR-548ay-5p, hsa-miR-548az-3p, hsa-miR-548az-5p, hsa-miR-548b-3p, hsa-miR-548b-5p, hsa-miR-548ba, hsa-miR-548bb-3p, hsa-miR-548bb-5p, hsa-miR-548bc, hsa-miR-548c-3p, hsa-miR-548c-5p, hsa-miR-548d-3p, hsa-miR-548d-5p, hsa-miR-548e-3p, hsa-miR-548e-5p, hsa-miR-548f-3p, hsa-miR-548f-5p, hsa-miR-548g-3p, hsa-miR-548g-5p, hsa-miR-548h-3p, hsa-miR-548h-5p, hsa-miR-548i, hsa-miR-548j-3p, hsa-miR-548j-5p, hsa-miR-548k, hsa-miR-548l, hsa-miR-548m, hsa-miR-548n, hsa-miR-548o-3p, hsa-miR-548o-5p, hsa-miR-548p, hsa-miR-548q, hsa-miR-548s, hsa-miR-548t-3p, hsa-miR-548t-5p, hsa-miR-548u, hsa-

miR-548v, hsa-miR-548w, hsa-miR-548x-3p, hsa-miR-548x-5p, hsa-miR-548y, hsa-miR-548z, hsa-miR-549a-3p, hsa-miR-549a-5p, hsa-miR-550a-3-5p, hsa-miR-550a-3p, hsa-miR-550a-5p, hsa-miR-550b-2-5p, hsa-miR-550b-3p, hsa-miR-551a, hsa-miR-551b-3p, hsa-miR-551b-5p, hsa-miR-552-3p, hsa-miR-552-5p, hsa-miR-553, hsa-miR-554, hsa-miR-555, hsa-miR-556-3p, hsa-miR-556-5p, hsa-miR-557, hsa-miR-5571-3p, hsa-miR-5571-5p, hsa-miR-5572, hsa-miR-5579-3p, hsa-miR-5579-5p, hsa-miR-558, hsa-miR-5580-3p, hsa-miR-5580-5p, hsa-miR-5581-3p, hsa-miR-5581-5p, hsa-miR-5582-3p, hsa-miR-5582-5p, hsa-miR-5583-3p, hsa-miR-5583-5p, hsa-miR-5584-3p, hsa-miR-5584-5p, hsa-miR-5585-3p, hsa-miR-5585-5p, hsa-miR-5586-3p, hsa-miR-5586-5p, hsa-miR-5587-3p, hsa-miR-5587-5p, hsa-miR-5588-3p, hsa-miR-5588-5p, hsa-miR-5589-3p, hsa-miR-5589-5p, hsa-miR-559, hsa-miR-5590-3p, hsa-miR-5590-5p, hsa-miR-5591-3p, hsa-miR-5591-5p, hsa-miR-561-3p, hsa-miR-561-5p, hsa-miR-562, hsa-miR-563, hsa-miR-564, hsa-miR-567, hsa-miR-568, hsa-miR-5680, hsa-miR-5681a, hsa-miR-5681b, hsa-miR-5682, hsa-miR-5683, hsa-miR-5684, hsa-miR-5685, hsa-miR-5687, hsa-miR-5688, hsa-miR-5689, hsa-miR-569, hsa-miR-5690, hsa-miR-5691, hsa-miR-5692a, hsa-miR-5692b, hsa-miR-5692c, hsa-miR-5693, hsa-miR-5694, hsa-miR-5695, hsa-miR-5696, hsa-miR-5697, hsa-miR-5698, hsa-miR-5699-3p, hsa-miR-5699-5p, hsa-miR-570-3p, hsa-miR-570-5p, hsa-miR-5700, hsa-miR-5701, hsa-miR-5702, hsa-miR-5703, hsa-miR-5704, hsa-miR-5705, hsa-miR-5706, hsa-miR-5707, hsa-miR-5708, hsa-miR-571, hsa-miR-572, hsa-miR-573, hsa-miR-5739, hsa-miR-574-3p, hsa-miR-574-5p, hsa-miR-575, hsa-miR-576-3p, hsa-miR-576-5p, hsa-miR-577, hsa-miR-578, hsa-miR-5787, hsa-miR-579-3p, hsa-miR-579-5p, hsa-miR-580-3p, hsa-miR-580-5p, hsa-miR-581, hsa-miR-582-3p, hsa-miR-582-5p, hsa-miR-583, hsa-miR-584-3p, hsa-miR-584-5p, hsa-miR-585-3p, hsa-miR-585-5p, hsa-miR-586, hsa-miR-587, hsa-miR-588, hsa-miR-589-3p, hsa-miR-589-5p, hsa-miR-590-3p, hsa-miR-590-5p, hsa-miR-591, hsa-miR-592, hsa-miR-593-3p, hsa-miR-593-5p, hsa-miR-595, hsa-miR-596, hsa-miR-597-3p, hsa-miR-597-5p, hsa-miR-598-3p, hsa-miR-598-5p, hsa-miR-599, hsa-miR-600, hsa-miR-601, hsa-miR-602, hsa-miR-603, hsa-miR-604, hsa-miR-605-3p, hsa-miR-605-5p, hsa-miR-606, hsa-miR-6068, hsa-miR-6069, hsa-miR-607, hsa-miR-6070, hsa-miR-6071, hsa-miR-6072, hsa-miR-6073, hsa-miR-6074, hsa-miR-6075, hsa-miR-6076, hsa-miR-6077, hsa-miR-6078, hsa-miR-6079, hsa-miR-608, hsa-miR-6080, hsa-miR-6081, hsa-miR-6082, hsa-miR-6083, hsa-miR-6084, hsa-miR-6085, hsa-miR-6086, hsa-miR-6088, hsa-miR-6089, hsa-miR-609, hsa-miR-6090, hsa-miR-610, hsa-miR-611, hsa-miR-612, hsa-miR-6124, hsa-miR-6125, hsa-miR-6126, hsa-miR-6127, hsa-miR-6128, hsa-miR-6129, hsa-miR-613, hsa-miR-6130, hsa-miR-6131, hsa-miR-6132, hsa-miR-6133, hsa-miR-6134, hsa-miR-614, hsa-miR-615-3p, hsa-miR-615-5p,

hsa-miR-616-3p, hsa-miR-616-5p, hsa-miR-6165, hsa-miR-617, hsa-miR-618, hsa-miR-619-3p, hsa-miR-619-5p, hsa-miR-620, hsa-miR-621, hsa-miR-622, hsa-miR-623, hsa-miR-624-3p, hsa-miR-624-5p, hsa-miR-625-3p, hsa-miR-625-5p, hsa-miR-626, hsa-miR-627-3p, hsa-miR-627-5p, hsa-miR-628-3p, hsa-miR-628-5p, hsa-miR-629-3p, hsa-miR-629-5p, hsa-miR-630, hsa-miR-631, hsa-miR-632, hsa-miR-633, hsa-miR-634, hsa-miR-635, hsa-miR-636, hsa-miR-637, hsa-miR-638, hsa-miR-639, hsa-miR-640, hsa-miR-641, hsa-miR-642a-3p, hsa-miR-642a-5p, hsa-miR-642b-3p, hsa-miR-642b-5p, hsa-miR-643, hsa-miR-644a, hsa-miR-645, hsa-miR-646, hsa-miR-647, hsa-miR-648, hsa-miR-649, hsa-miR-6499-3p, hsa-miR-6499-5p, hsa-miR-650, hsa-miR-6500-3p, hsa-miR-6500-5p, hsa-miR-6501-3p, hsa-miR-6501-5p, hsa-miR-6502-3p, hsa-miR-6502-5p, hsa-miR-6503-3p, hsa-miR-6503-5p, hsa-miR-6504-3p, hsa-miR-6504-5p, hsa-miR-6505-3p, hsa-miR-6505-5p, hsa-miR-6506-3p, hsa-miR-6506-5p, hsa-miR-6507-3p, hsa-miR-6507-5p, hsa-miR-6508-3p, hsa-miR-6508-5p, hsa-miR-6509-3p, hsa-miR-6509-5p, hsa-miR-651-3p, hsa-miR-651-5p, hsa-miR-6510-3p, hsa-miR-6510-5p, hsa-miR-6511a-3p, hsa-miR-6511a-5p, hsa-miR-6511b-3p, hsa-miR-6511b-5p, hsa-miR-6512-3p, hsa-miR-6512-5p, hsa-miR-6513-3p, hsa-miR-6513-5p, hsa-miR-6514-3p, hsa-miR-6514-5p, hsa-miR-6515-3p, hsa-miR-6515-5p, hsa-miR-6516-3p, hsa-miR-6516-5p, hsa-miR-652-3p, hsa-miR-652-5p, hsa-miR-6529-3p, hsa-miR-6529-5p, hsa-miR-653-3p, hsa-miR-653-5p, hsa-miR-654-3p, hsa-miR-654-5p, hsa-miR-655-3p, hsa-miR-655-5p, hsa-miR-656-3p, hsa-miR-656-5p, hsa-miR-657, hsa-miR-658, hsa-miR-659-3p, hsa-miR-659-5p, hsa-miR-660-3p, hsa-miR-660-5p, hsa-miR-661, hsa-miR-662, hsa-miR-663a, hsa-miR-663b, hsa-miR-664a-3p, hsa-miR-664a-5p, hsa-miR-664b-3p, hsa-miR-664b-5p, hsa-miR-665, hsa-miR-668-3p, hsa-miR-668-5p, hsa-miR-670-3p, hsa-miR-670-5p, hsa-miR-671-3p, hsa-miR-671-5p, hsa-miR-6715a-3p, hsa-miR-6715b-3p, hsa-miR-6715b-5p, hsa-miR-6716-3p, hsa-miR-6716-5p, hsa-miR-6717-5p, hsa-miR-6718-5p, hsa-miR-6719-3p, hsa-miR-6720-3p, hsa-miR-6720-5p, hsa-miR-6721-5p, hsa-miR-6722-3p, hsa-miR-6722-5p, hsa-miR-6724-5p, hsa-miR-6726-3p, hsa-miR-6726-5p, hsa-miR-6727-3p, hsa-miR-6727-5p, hsa-miR-6728-3p, hsa-miR-6728-5p, hsa-miR-6729-3p, hsa-miR-6729-5p, hsa-miR-6730-3p, hsa-miR-6730-5p, hsa-miR-6731-3p, hsa-miR-6731-5p, hsa-miR-6732-3p, hsa-miR-6732-5p, hsa-miR-6733-3p, hsa-miR-6733-5p, hsa-miR-6734-3p, hsa-miR-6734-5p, hsa-miR-6735-3p, hsa-miR-6735-5p, hsa-miR-6736-3p, hsa-miR-6736-5p, hsa-miR-6737-3p, hsa-miR-6737-5p, hsa-miR-6738-3p, hsa-miR-6738-5p, hsa-miR-6739-3p, hsa-miR-6739-5p, hsa-miR-6740-3p, hsa-miR-6740-5p, hsa-miR-6741-3p, hsa-miR-6741-5p, hsa-miR-6742-3p, hsa-miR-6742-5p, hsa-miR-6743-3p, hsa-miR-6743-5p, hsa-miR-6744-3p, hsa-miR-6744-5p, hsa-miR-6745, hsa-miR-6746-3p, hsa-miR-6746-5p, hsa-miR-6747-3p, hsa-miR-6747-5p,

hsa-miR-6748-3p, hsa-miR-6748-5p, hsa-miR-6749-3p, hsa-miR-6749-5p, hsa-miR-675-3p, hsa-miR-675-5p, hsa-miR-6750-3p, hsa-miR-6750-5p, hsa-miR-6751-3p, hsa-miR-6751-5p, hsa-miR-6752-3p, hsa-miR-6752-5p, hsa-miR-6753-3p, hsa-miR-6753-5p, hsa-miR-6754-3p, hsa-miR-6754-5p, hsa-miR-6755-3p, hsa-miR-6755-5p, hsa-miR-6756-3p, hsa-miR-6756-5p, hsa-miR-6757-3p, hsa-miR-6757-5p, hsa-miR-6758-3p, hsa-miR-6758-5p, hsa-miR-6759-3p, hsa-miR-6759-5p, hsa-miR-676-3p, hsa-miR-676-5p, hsa-miR-6760-3p, hsa-miR-6760-5p, hsa-miR-6761-3p, hsa-miR-6761-5p, hsa-miR-6762-3p, hsa-miR-6762-5p, hsa-miR-6763-3p, hsa-miR-6763-5p, hsa-miR-6764-3p, hsa-miR-6764-5p, hsa-miR-6765-3p, hsa-miR-6765-5p, hsa-miR-6766-3p, hsa-miR-6766-5p, hsa-miR-6767-3p, hsa-miR-6767-5p, hsa-miR-6768-3p, hsa-miR-6768-5p, hsa-miR-6769a-3p, hsa-miR-6769a-5p, hsa-miR-6769b-3p, hsa-miR-6769b-5p, hsa-miR-6770-3p, hsa-miR-6770-5p, hsa-miR-6771-3p, hsa-miR-6771-5p, hsa-miR-6772-3p, hsa-miR-6772-5p, hsa-miR-6773-3p, hsa-miR-6773-5p, hsa-miR-6774-3p, hsa-miR-6774-5p, hsa-miR-6775-3p, hsa-miR-6775-5p, hsa-miR-6776-3p, hsa-miR-6776-5p, hsa-miR-6777-3p, hsa-miR-6777-5p, hsa-miR-6778-3p, hsa-miR-6778-5p, hsa-miR-6779-3p, hsa-miR-6779-5p, hsa-miR-6780a-3p, hsa-miR-6780a-5p, hsa-miR-6780b-3p, hsa-miR-6780b-5p, hsa-miR-6781-3p, hsa-miR-6781-5p, hsa-miR-6782-3p, hsa-miR-6782-5p, hsa-miR-6783-3p, hsa-miR-6783-5p, hsa-miR-6784-3p, hsa-miR-6784-5p, hsa-miR-6785-3p, hsa-miR-6785-5p, hsa-miR-6786-3p, hsa-miR-6786-5p, hsa-miR-6787-3p, hsa-miR-6787-5p, hsa-miR-6788-3p, hsa-miR-6788-5p, hsa-miR-6789-3p, hsa-miR-6789-5p, hsa-miR-6790-3p, hsa-miR-6790-5p, hsa-miR-6791-3p, hsa-miR-6791-5p, hsa-miR-6792-3p, hsa-miR-6792-5p, hsa-miR-6793-3p, hsa-miR-6793-5p, hsa-miR-6794-3p, hsa-miR-6794-5p, hsa-miR-6795-3p, hsa-miR-6795-5p, hsa-miR-6796-3p, hsa-miR-6796-5p, hsa-miR-6797-3p, hsa-miR-6797-5p, hsa-miR-6798-3p, hsa-miR-6798-5p, hsa-miR-6799-3p, hsa-miR-6799-5p, hsa-miR-6800-3p, hsa-miR-6800-5p, hsa-miR-6801-3p, hsa-miR-6801-5p, hsa-miR-6802-3p, hsa-miR-6802-5p, hsa-miR-6803-3p, hsa-miR-6803-5p, hsa-miR-6804-3p, hsa-miR-6804-5p, hsa-miR-6805-3p, hsa-miR-6805-5p, hsa-miR-6806-3p, hsa-miR-6806-5p, hsa-miR-6807-3p, hsa-miR-6807-5p, hsa-miR-6808-3p, hsa-miR-6808-5p, hsa-miR-6809-3p, hsa-miR-6809-5p, hsa-miR-6810-3p, hsa-miR-6810-5p, hsa-miR-6811-3p, hsa-miR-6811-5p, hsa-miR-6812-3p, hsa-miR-6812-5p, hsa-miR-6813-3p, hsa-miR-6813-5p, hsa-miR-6814-3p, hsa-miR-6814-5p, hsa-miR-6815-3p, hsa-miR-6815-5p, hsa-miR-6816-3p, hsa-miR-6816-5p, hsa-miR-6817-3p, hsa-miR-6817-5p, hsa-miR-6818-3p, hsa-miR-6818-5p, hsa-miR-6819-3p, hsa-miR-6819-5p, hsa-miR-6820-3p, hsa-miR-6820-5p, hsa-miR-6821-3p, hsa-miR-6821-5p, hsa-miR-6822-3p, hsa-miR-6822-5p, hsa-miR-6823-3p, hsa-miR-6823-5p, hsa-miR-6824-3p, hsa-miR-6824-5p, hsa-miR-6825-3p, hsa-miR-6825-5p, hsa-miR-6826-3p, hsa-miR-6826-5p, hsa-miR-6827-3p, hsa-miR-6827-5p,

hsa-miR-6828-3p, hsa-miR-6828-5p, hsa-miR-6829-3p, hsa-miR-6829-5p, hsa-miR-6830-3p, hsa-miR-6830-5p, hsa-miR-6831-3p, hsa-miR-6831-5p, hsa-miR-6832-3p, hsa-miR-6832-5p, hsa-miR-6833-3p, hsa-miR-6833-5p, hsa-miR-6834-3p, hsa-miR-6834-5p, hsa-miR-6835-3p, hsa-miR-6835-5p, hsa-miR-6836-3p, hsa-miR-6836-5p, hsa-miR-6837-3p, hsa-miR-6837-5p, hsa-miR-6838-3p, hsa-miR-6838-5p, hsa-miR-6839-3p, hsa-miR-6839-5p, hsa-miR-6840-3p, hsa-miR-6840-5p, hsa-miR-6841-3p, hsa-miR-6841-5p, hsa-miR-6842-3p, hsa-miR-6842-5p, hsa-miR-6843-3p, hsa-miR-6844, hsa-miR-6845-3p, hsa-miR-6845-5p, hsa-miR-6846-3p, hsa-miR-6846-5p, hsa-miR-6847-3p, hsa-miR-6847-5p, hsa-miR-6848-3p, hsa-miR-6848-5p, hsa-miR-6849-3p, hsa-miR-6849-5p, hsa-miR-6850-3p, hsa-miR-6850-5p, hsa-miR-6851-3p, hsa-miR-6851-5p, hsa-miR-6852-3p, hsa-miR-6852-5p, hsa-miR-6853-3p, hsa-miR-6853-5p, hsa-miR-6854-3p, hsa-miR-6854-5p, hsa-miR-6855-3p, hsa-miR-6855-5p, hsa-miR-6856-3p, hsa-miR-6856-5p, hsa-miR-6857-3p, hsa-miR-6857-5p, hsa-miR-6858-3p, hsa-miR-6858-5p, hsa-miR-6859-3p, hsa-miR-6859-5p, hsa-miR-6860, hsa-miR-6861-3p, hsa-miR-6861-5p, hsa-miR-6862-3p, hsa-miR-6862-5p, hsa-miR-6863, hsa-miR-6864-3p, hsa-miR-6864-5p, hsa-miR-6865-3p, hsa-miR-6865-5p, hsa-miR-6866-3p, hsa-miR-6866-5p, hsa-miR-6867-3p, hsa-miR-6867-5p, hsa-miR-6868-3p, hsa-miR-6868-5p, hsa-miR-6869-3p, hsa-miR-6869-5p, hsa-miR-6870-3p, hsa-miR-6870-5p, hsa-miR-6871-3p, hsa-miR-6871-5p, hsa-miR-6872-3p, hsa-miR-6872-5p, hsa-miR-6873-3p, hsa-miR-6873-5p, hsa-miR-6874-3p, hsa-miR-6874-5p, hsa-miR-6875-3p, hsa-miR-6875-5p, hsa-miR-6876-3p, hsa-miR-6876-5p, hsa-miR-6877-3p, hsa-miR-6877-5p, hsa-miR-6878-3p, hsa-miR-6878-5p, hsa-miR-6879-3p, hsa-miR-6879-5p, hsa-miR-6880-3p, hsa-miR-6880-5p, hsa-miR-6881-3p, hsa-miR-6881-5p, hsa-miR-6882-3p, hsa-miR-6882-5p, hsa-miR-6883-3p, hsa-miR-6883-5p, hsa-miR-6884-3p, hsa-miR-6884-5p, hsa-miR-6885-3p, hsa-miR-6885-5p, hsa-miR-6886-3p, hsa-miR-6886-5p, hsa-miR-6887-3p, hsa-miR-6887-5p, hsa-miR-6888-3p, hsa-miR-6888-5p, hsa-miR-6889-3p, hsa-miR-6889-5p, hsa-miR-6890-3p, hsa-miR-6890-5p, hsa-miR-6891-3p, hsa-miR-6891-5p, hsa-miR-6892-3p, hsa-miR-6892-5p, hsa-miR-6893-3p, hsa-miR-6893-5p, hsa-miR-6894-3p, hsa-miR-6894-5p, hsa-miR-6895-3p, hsa-miR-6895-5p, hsa-miR-7-1-3p, hsa-miR-7-2-3p, hsa-miR-7-5p, hsa-miR-708-3p, hsa-miR-708-5p, hsa-miR-7106-3p, hsa-miR-7106-5p, hsa-miR-7107-3p, hsa-miR-7107-5p, hsa-miR-7108-3p, hsa-miR-7108-5p, hsa-miR-7109-3p, hsa-miR-7109-5p, hsa-miR-711, hsa-miR-7110-3p, hsa-miR-7110-5p, hsa-miR-7111-3p, hsa-miR-7111-5p, hsa-miR-7112-3p, hsa-miR-7112-5p, hsa-miR-7113-3p, hsa-miR-7113-5p, hsa-miR-7114-3p, hsa-miR-7114-5p, hsa-miR-7150, hsa-miR-7151-3p, hsa-miR-7151-5p, hsa-miR-7152-3p, hsa-miR-7152-5p, hsa-miR-7153-3p, hsa-miR-7153-5p, hsa-miR-7154-3p, hsa-miR-7154-5p, hsa-miR-7155-3p, hsa-miR-7155-5p, hsa-miR-7156-3p, hsa-miR-7156-5p, hsa-miR-7157-3p,

hsa-miR-7157-5p, hsa-miR-7158-3p, hsa-miR-7158-5p, hsa-miR-7159-3p, hsa-miR-7159-5p, hsa-miR-7160-3p, hsa-miR-7160-5p, hsa-miR-7161-3p, hsa-miR-7161-5p, hsa-miR-7162-3p, hsa-miR-7162-5p, hsa-miR-718, hsa-miR-744-3p, hsa-miR-744-5p, hsa-miR-7515, hsa-miR-758-3p, hsa-miR-758-5p, hsa-miR-759, hsa-miR-760, hsa-miR-761, hsa-miR-762, hsa-miR-764, hsa-miR-765, hsa-miR-766-3p, hsa-miR-766-5p, hsa-miR-767-3p, hsa-miR-767-5p, hsa-miR-769-3p, hsa-miR-769-5p, hsa-miR-770-5p, hsa-miR-7702, hsa-miR-7703, hsa-miR-7704, hsa-miR-7705, hsa-miR-7706, hsa-miR-7843-3p, hsa-miR-7843-5p, hsa-miR-7844-5p, hsa-miR-7845-5p, hsa-miR-7846-3p, hsa-miR-7847-3p, hsa-miR-7848-3p, hsa-miR-7849-3p, hsa-miR-7850-5p, hsa-miR-7851-3p, hsa-miR-7852-3p, hsa-miR-7853-5p, hsa-miR-7854-3p, hsa-miR-7855-5p, hsa-miR-7856-5p, hsa-miR-7973, hsa-miR-7974, hsa-miR-7975, hsa-miR-7976, hsa-miR-7977, hsa-miR-7978, hsa-miR-802, hsa-miR-8052, hsa-miR-8053, hsa-miR-8054, hsa-miR-8055, hsa-miR-8056, hsa-miR-8057, hsa-miR-8058, hsa-miR-8059, hsa-miR-8060, hsa-miR-8061, hsa-miR-8062, hsa-miR-8063, hsa-miR-8064, hsa-miR-8065, hsa-miR-8066, hsa-miR-8067, hsa-miR-8068, hsa-miR-8069, hsa-miR-8070, hsa-miR-8071, hsa-miR-8072, hsa-miR-8073, hsa-miR-8074, hsa-miR-8075, hsa-miR-8076, hsa-miR-8077, hsa-miR-8078, hsa-miR-8079, hsa-miR-8080, hsa-miR-8081, hsa-miR-8082, hsa-miR-8083, hsa-miR-8084, hsa-miR-8085, hsa-miR-8086, hsa-miR-8087, hsa-miR-8088, hsa-miR-8089, hsa-miR-8485, hsa-miR-873-3p, hsa-miR-873-5p, hsa-miR-874-3p, hsa-miR-874-5p, hsa-miR-875-3p, hsa-miR-875-5p, hsa-miR-876-3p, hsa-miR-876-5p, hsa-miR-877-3p, hsa-miR-877-5p, hsa-miR-885-3p, hsa-miR-885-5p, hsa-miR-887-3p, hsa-miR-887-5p, hsa-miR-888-3p, hsa-miR-888-5p, hsa-miR-889-3p, hsa-miR-889-5p, hsa-miR-890, hsa-miR-891a-3p, hsa-miR-891a-5p, hsa-miR-891b, hsa-miR-892a, hsa-miR-892b, hsa-miR-892c-3p, hsa-miR-892c-5p, hsa-miR-9-3p, hsa-miR-9-5p, hsa-miR-920, hsa-miR-921, hsa-miR-922, hsa-miR-924, hsa-miR-92a-1-5p, hsa-miR-92a-2-5p, hsa-miR-92a-3p, hsa-miR-92b-3p, hsa-miR-92b-5p, hsa-miR-93-3p, hsa-miR-93-5p, hsa-miR-933, hsa-miR-934, hsa-miR-935, hsa-miR-936, hsa-miR-937-3p, hsa-miR-937-5p, hsa-miR-938, hsa-miR-939-3p, hsa-miR-939-5p, hsa-miR-940, hsa-miR-941, hsa-miR-942-3p, hsa-miR-942-5p, hsa-miR-943, hsa-miR-944, hsa-miR-95-3p, hsa-miR-95-5p, hsa-miR-9500, hsa-miR-96-3p, hsa-miR-96-5p, hsa-miR-9718, hsa-miR-98-3p, hsa-miR-98-5p, hsa-miR-9851-3p, hsa-miR-9851-5p, hsa-miR-9898, hsa-miR-9899, hsa-miR-9900, hsa-miR-9901, hsa-miR-9902, hsa-miR-9903, hsa-miR-9983-3p, hsa-miR-9985, hsa-miR-9986, hsa-miR-99a-3p, hsa-miR-99a-5p, hsa-miR-99b-3p, hsa-miR-99b-5p, hsv1-miR-H1-3p, hsv1-miR-H1-5p, hsv1-miR-H11, hsv1-miR-H12, hsv1-miR-H13, hsv1-miR-H14-3p, hsv1-miR-H14-5p, hsv1-miR-H15, hsv1-miR-H16, hsv1-miR-H17, hsv1-miR-H18, hsv1-miR-H2-3p, hsv1-miR-H2-5p, hsv1-miR-H26, hsv1-miR-H27, hsv1-miR-H3-3p, hsv1-

miR-H3-5p, hsv1-miR-H4-3p, hsv1-miR-H4-5p, hsv1-miR-H5-3p, hsv1-miR-H5-5p, hsv1-miR-H6-3p, hsv1-miR-H6-5p, hsv1-miR-H7-3p, hsv1-miR-H7-5p, hsv1-miR-H8-3p, hsv1-miR-H8-5p, hsv2-miR-H10, hsv2-miR-H11-3p, hsv2-miR-H11-5p, hsv2-miR-H12, hsv2-miR-H13, hsv2-miR-H19, hsv2-miR-H2, hsv2-miR-H20, hsv2-miR-H21, hsv2-miR-H22, hsv2-miR-H23-3p, hsv2-miR-H23-5p, hsv2-miR-H24, hsv2-miR-H25, hsv2-miR-H3, hsv2-miR-H4-3p, hsv2-miR-H4-5p, hsv2-miR-H5, hsv2-miR-H6-3p, hsv2-miR-H6-5p, hsv2-miR-H7-3p, hsv2-miR-H7-5p, hsv2-miR-H9-3p, hsv2-miR-H9-5p, htu-miR156a, htu-miR159a, htu-miR160a, htu-miR162a, htu-miR171a, htu-miR171b, htu-miR171c, htu-miR393a, htu-miR393b, htu-miR393c, htu-miR403a, htu-miR403b, htu-miR403c, htu-miR403d, htu-miR403e, htu-miR530, hvsa-miR-HSUR2-3p, hvsa-miR-HSUR2-5p, hvsa-miR-HSUR4-3p, hvsa-miR-HSUR4-5p, hvsa-miR-HSUR5-3p, hvsa-miR-HSUR5-5p, hvt-miR-H1, hvt-miR-H10, hvt-miR-H11, hvt-miR-H12-3p, hvt-miR-H12-5p, hvt-miR-H13, hvt-miR-H14-3p, hvt-miR-H14-5p, hvt-miR-H15-3p, hvt-miR-H15-5p, hvt-miR-H16-3p, hvt-miR-H16-5p, hvt-miR-H17-3p, hvt-miR-H17-5p, hvt-miR-H18-3p, hvt-miR-H18-5p, hvt-miR-H2, hvt-miR-H3-3p, hvt-miR-H3-5p, hvt-miR-H4-3p, hvt-miR-H4-5p, hvt-miR-H5-3p, hvt-miR-H5-5p, hvt-miR-H7-3p, hvt-miR-H7-5p, hvt-miR-H8, hvt-miR-H9-3p, hvt-miR-H9-5p, hvu-miR1120, hvu-miR1130, hvu-miR1436, hvu-miR156a, hvu-miR156b, hvu-miR159a, hvu-miR159b, hvu-miR166a, hvu-miR166b, hvu-miR166c, hvu-miR168-3p, hvu-miR168-5p, hvu-miR169, hvu-miR171-3p, hvu-miR171-5p, hvu-miR397a, hvu-miR397b-3p, hvu-miR399, hvu-miR444a, hvu-miR444b, hvu-miR5048a, hvu-miR5048b, hvu-miR5049a, hvu-miR5049b, hvu-miR5049c, hvu-miR5049d, hvu-miR5049e, hvu-miR5049f, hvu-miR5050, hvu-miR5051, hvu-miR5052, hvu-miR5053, hvu-miR6176, hvu-miR6177, hvu-miR6178, hvu-miR6179, hvu-miR6180, hvu-miR6181, hvu-miR6182, hvu-miR6183, hvu-miR6184, hvu-miR6185, hvu-miR6186, hvu-miR6187, hvu-miR6188, hvu-miR6189, hvu-miR6190, hvu-miR6191, hvu-miR6192, hvu-miR6193, hvu-miR6194, hvu-miR6195, hvu-miR6196, hvu-miR6197, hvu-miR6198, hvu-miR6199, hvu-miR6200, hvu-miR6201, hvu-miR6202, hvu-miR6203, hvu-miR6204, hvu-miR6205, hvu-miR6206, hvu-miR6207, hvu-miR6208, hvu-miR6209, hvu-miR6210, hvu-miR6211, hvu-miR6212, hvu-miR6213, hvu-miR6214, iltv-miR-I1-3p, iltv-miR-I1-5p, iltv-miR-I2, iltv-miR-I3, iltv-miR-I4, iltv-miR-I5-3p, iltv-miR-I5-5p, iltv-miR-I6-3p, iltv-miR-I6-5p, iltv-miR-I7, ipu-let-7a, ipu-let-7b, ipu-let-7c, ipu-let-7d, ipu-let-7e, ipu-let-7f, ipu-let-7g, ipu-let-7h, ipu-let-7i, ipu-let-7j, ipu-miR-1, ipu-miR-100, ipu-miR-101a, ipu-miR-101b, ipu-miR-103, ipu-miR-107a, ipu-miR-107b, ipu-miR-10a, ipu-miR-10b, ipu-miR-10c, ipu-miR-10d, ipu-miR-122, ipu-miR-124a, ipu-miR-125a, ipu-miR-125b, ipu-miR-125c, ipu-miR-126a, ipu-miR-126b, ipu-miR-128, ipu-miR-129, ipu-

miR-129b, ipu-miR-130c, ipu-miR-132a, ipu-miR-132b, ipu-miR-133a, ipu-miR-133b, ipu-miR-133c, ipu-miR-135a, ipu-miR-135b, ipu-miR-135c, ipu-miR-137, ipu-miR-138, ipu-miR-1388, ipu-miR-139, ipu-miR-140, ipu-miR-141, ipu-miR-142, ipu-miR-143, ipu-miR-144, ipu-miR-145, ipu-miR-146a, ipu-miR-146b, ipu-miR-148, ipu-miR-150, ipu-miR-152, ipu-miR-153b, ipu-miR-155, ipu-miR-15a, ipu-miR-15b, ipu-miR-16b, ipu-miR-16c, ipu-miR-1788, ipu-miR-17a, ipu-miR-17b, ipu-miR-181a, ipu-miR-181b, ipu-miR-181c, ipu-miR-182, ipu-miR-183, ipu-miR-184, ipu-miR-187, ipu-miR-18a, ipu-miR-190a, ipu-miR-190b, ipu-miR-192, ipu-miR-194a, ipu-miR-196a, ipu-miR-196d, ipu-miR-199a-3p, ipu-miR-199a-5p, ipu-miR-199b, ipu-miR-19a, ipu-miR-19b, ipu-miR-200a, ipu-miR-200b, ipu-miR-200c, ipu-miR-202, ipu-miR-203a, ipu-miR-203b, ipu-miR-203c, ipu-miR-204, ipu-miR-205, ipu-miR-206, ipu-miR-20a, ipu-miR-21, ipu-miR-210, ipu-miR-212, ipu-miR-214, ipu-miR-216a, ipu-miR-216b, ipu-miR-217, ipu-miR-2187, ipu-miR-2188, ipu-miR-218a, ipu-miR-218b, ipu-miR-219a, ipu-miR-219b, ipu-miR-221, ipu-miR-222a, ipu-miR-223, ipu-miR-22a, ipu-miR-22b, ipu-miR-23a, ipu-miR-23b, ipu-miR-24, ipu-miR-24b, ipu-miR-25, ipu-miR-26a, ipu-miR-26b, ipu-miR-27a, ipu-miR-27b, ipu-miR-27c, ipu-miR-27d, ipu-miR-27e, ipu-miR-29a, ipu-miR-29b, ipu-miR-29c, ipu-miR-301a, ipu-miR-301c, ipu-miR-30a, ipu-miR-30b, ipu-miR-30c, ipu-miR-30d, ipu-miR-30e, ipu-miR-31, ipu-miR-338, ipu-miR-34a, ipu-miR-34b, ipu-miR-34c, ipu-miR-3618, ipu-miR-363, ipu-miR-365, ipu-miR-375, ipu-miR-429a, ipu-miR-429b, ipu-miR-454b, ipu-miR-455a, ipu-miR-455b, ipu-miR-456, ipu-miR-457a, ipu-miR-457b, ipu-miR-458, ipu-miR-459, ipu-miR-460, ipu-miR-462, ipu-miR-489, ipu-miR-499, ipu-miR-551, ipu-miR-7147, ipu-miR-724, ipu-miR-728, ipu-miR-730, ipu-miR-737, ipu-miR-7547, ipu-miR-7548, ipu-miR-7549, ipu-miR-7550, ipu-miR-7551, ipu-miR-7552, ipu-miR-7553, ipu-miR-7554, ipu-miR-7555, ipu-miR-7556, ipu-miR-7557, ipu-miR-7558a, ipu-miR-7558b, ipu-miR-7559, ipu-miR-7560, ipu-miR-7561, ipu-miR-7562, ipu-miR-7563a, ipu-miR-7563b, ipu-miR-7563c, ipu-miR-7564, ipu-miR-7565, ipu-miR-7566, ipu-miR-7567, ipu-miR-7568, ipu-miR-7569, ipu-miR-7570, ipu-miR-7571, ipu-miR-7572, ipu-miR-7573, ipu-miR-7574, ipu-miR-7575, ipu-miR-7576, ipu-miR-7577, ipu-miR-7a, ipu-miR-7b, ipu-miR-9, ipu-miR-92a, ipu-miR-92b, ipu-miR-96, ipu-miR-99a, ipu-miR-99b, isc-bantam, isc-let-7, isc-miR-1, isc-miR-10, isc-miR-100, isc-miR-12, isc-miR-124, isc-miR-133, isc-miR-137, isc-miR-153, isc-miR-184, isc-miR-1993, isc-miR-2001, isc-miR-219, isc-miR-252b, isc-miR-263a, isc-miR-275, isc-miR-276, isc-miR-278, isc-miR-279, isc-miR-285, isc-miR-2a, isc-miR-2b, isc-miR-305, isc-miR-307, isc-miR-315, isc-miR-317, isc-miR-375, isc-miR-3931, isc-miR-5305, isc-miR-5306, isc-miR-5307, isc-miR-5308, isc-miR-5309, isc-miR-5310, isc-miR-5311, isc-miR-5312, isc-miR-5313, isc-

miR-5314, isc-miR-5315, isc-miR-7, isc-miR-71, isc-miR-750, isc-miR-79, isc-miR-8, isc-miR-87, isc-miR-96, isc-miR-993, isc-miR-iab-4, jcv-miR-J1-3p, jcv-miR-J1-5p, kshv-miR-K12-1-3p, kshv-miR-K12-1-5p, kshv-miR-K12-10a-3p, kshv-miR-K12-10a-5p, kshv-miR-K12-10b, kshv-miR-K12-11-3p, kshv-miR-K12-11-5p, kshv-miR-K12-12-3p, kshv-miR-K12-12-5p, kshv-miR-K12-2-3p, kshv-miR-K12-2-5p, kshv-miR-K12-3-3p, kshv-miR-K12-3-5p, kshv-miR-K12-4-3p, kshv-miR-K12-4-5p, kshv-miR-K12-5-3p, kshv-miR-K12-5-5p, kshv-miR-K12-6-3p, kshv-miR-K12-6-5p, kshv-miR-K12-7-3p, kshv-miR-K12-7-5p, kshv-miR-K12-8-3p, kshv-miR-K12-8-5p, kshv-miR-K12-9-3p, kshv-miR-K12-9-5p, lca-miR-125b, lca-miR-15a, lca-miR-16, lca-miR-17-3p, lca-miR-17-5p, lca-miR-18, lca-miR-19a, lca-miR-19b, lca-miR-20, lca-miR-216, lca-miR-218, lca-miR-22, lca-miR-23a, lca-miR-27a, lca-miR-92, lco-miR-7642-3p, lgi-let-7, lgi-miR-1, lgi-miR-10, lgi-miR-100, lgi-miR-1175-3p, lgi-miR-1175-5p, lgi-miR-12, lgi-miR-124, lgi-miR-133-3p, lgi-miR-133-5p, lgi-miR-137, lgi-miR-153, lgi-miR-184, lgi-miR-190, lgi-miR-193, lgi-miR-1984, lgi-miR-1985, lgi-miR-1986, lgi-miR-1988, lgi-miR-1989, lgi-miR-1990, lgi-miR-1991, lgi-miR-1992, lgi-miR-1993, lgi-miR-1994a, lgi-miR-1994b, lgi-miR-2001, lgi-miR-216a, lgi-miR-216b, lgi-miR-242a, lgi-miR-242b, lgi-miR-252a, lgi-miR-252b, lgi-miR-263a, lgi-miR-263b, lgi-miR-2722, lgi-miR-278, lgi-miR-279, lgi-miR-281-3p, lgi-miR-281-5p, lgi-miR-29, lgi-miR-2c, lgi-miR-2d, lgi-miR-31, lgi-miR-315, lgi-miR-317, lgi-miR-33-3p, lgi-miR-33-5p, lgi-miR-34, lgi-miR-375, lgi-miR-67, lgi-miR-7, lgi-miR-71, lgi-miR-745a, lgi-miR-745b, lgi-miR-750, lgi-miR-8, lgi-miR-87, lgi-miR-9-3p, lgi-miR-9-5p, lgi-miR-92, lgi-miR-96a, lgi-miR-96b, lgi-miR-981, lja-miR11066-3p, lja-miR11066-5p, lja-miR11067-3p, lja-miR11067-5p, lja-miR11068a-3p, lja-miR11068a-5p, lja-miR11068b-3p, lja-miR11068c-3p, lja-miR11068c-5p, lja-miR11068d-3p, lja-miR11068e-3p, lja-miR11068f-3p, lja-miR11069-5p, lja-miR11070-5p, lja-miR11071-3p, lja-miR11072a-3p, lja-miR11072b-3p, lja-miR11072b-5p, lja-miR11072c-3p, lja-miR11072d-3p, lja-miR11072e-3p, lja-miR11072f-3p, lja-miR11072g-3p, lja-miR11072h-3p, lja-miR11072i-3p, lja-miR11072i-5p, lja-miR11072j-3p, lja-miR11072j-5p, lja-miR11073-5p, lja-miR11074-5p, lja-miR11075a-3p, lja-miR11075b-3p, lja-miR11075b-5p, lja-miR11075c-3p, lja-miR11076-3p, lja-miR11076-5p, lja-miR11077a-3p, lja-miR11077a-5p, lja-miR11077b-5p, lja-miR11077c-5p, lja-miR11077d-3p, lja-miR11077d-5p, lja-miR11078a-3p, lja-miR11078b-3p, lja-miR11078c-3p, lja-miR11078c-5p, lja-miR11078d-3p, lja-miR11078e-3p, lja-miR11078f-3p, lja-miR11078g-3p, lja-miR11079-3p, lja-miR11079-5p, lja-miR11080-3p, lja-miR11081-3p, lja-miR11082a-3p, lja-miR11082b-3p, lja-miR11082c-3p, lja-miR11082d-3p, lja-miR11082e-3p, lja-miR11082f-3p, lja-miR11082g-3p, lja-miR11082h-3p, lja-miR11082i-3p, lja-miR11082i-5p,

lja-miR11082j-3p, lja-miR11082k-3p, lja-miR11082l-3p, lja-miR11082m-3p, lja-miR11083a-3p, lja-miR11083b-3p, lja-miR11083c-3p, lja-miR11083c-5p, lja-miR11083d-3p, lja-miR11083e-3p, lja-miR11083f-3p, lja-miR11084-5p, lja-miR11085-3p, lja-miR11085-5p, lja-miR11086-3p, lja-miR11086-5p, lja-miR11087-3p, lja-miR11088a-3p, lja-miR11088a-5p, lja-miR11088b-5p, lja-miR11089a-5p, lja-miR11089b-3p, lja-miR11089c-5p, lja-miR11090a-5p, lja-miR11090b-5p, lja-miR11090c-5p, lja-miR11090d-3p, lja-miR11090d-5p, lja-miR11090e-5p, lja-miR11091-3p, lja-miR11092-3p, lja-miR11093-3p, lja-miR11094-3p, lja-miR11095-3p, lja-miR11095-5p, lja-miR11096a-3p, lja-miR11096b-3p, lja-miR11097a-3p, lja-miR11097a-5p, lja-miR11097b-3p, lja-miR11097c-3p, lja-miR11097d-5p, lja-miR11097e-5p, lja-miR11097f-5p, lja-miR11097g-5p, lja-miR11097h-5p, lja-miR11097i-3p, lja-miR11098-3p, lja-miR11099-5p, lja-miR11100-3p, lja-miR11100-5p, lja-miR11101a-3p, lja-miR11101b-3p, lja-miR11102-3p, lja-miR11103a-3p, lja-miR11103b-5p, lja-miR11103c-3p, lja-miR11103c-5p, lja-miR11103d-5p, lja-miR11103e-3p, lja-miR11104-3p, lja-miR11104-5p, lja-miR11105a-5p, lja-miR11105b-5p, lja-miR11105c-5p, lja-miR11105d-5p, lja-miR11106-3p, lja-miR11106-5p, lja-miR11107a-3p, lja-miR11107a-5p, lja-miR11107b-3p, lja-miR11107c-3p, lja-miR11107c-5p, lja-miR11108a-3p, lja-miR11108a-5p, lja-miR11108b-3p, lja-miR11108c-3p, lja-miR11108d-3p, lja-miR11108d-5p, lja-miR11108e-3p, lja-miR11108e-5p, lja-miR11108f-3p, lja-miR11108f-5p, lja-miR11108g-5p, lja-miR11108h-5p, lja-miR11108i-3p, lja-miR11108j-3p, lja-miR11108j-5p, lja-miR11108k-3p, lja-miR11108k-5p, lja-miR11108l-5p, lja-miR11108m-3p, lja-miR11108n-3p, lja-miR11108n-5p, lja-miR11108o-3p, lja-miR11108p-3p, lja-miR11108p-5p, lja-miR11108q-3p, lja-miR11108q-5p, lja-miR11108r-3p, lja-miR11108r-5p, lja-miR11108s-3p, lja-miR11108s-5p, lja-miR11108t-3p, lja-miR11108u-3p, lja-miR11108v-3p, lja-miR11108w-5p, lja-miR11108x-5p, lja-miR11109-5p, lja-miR11110a-5p, lja-miR11110b-3p, lja-miR11110b-5p, lja-miR11111-3p, lja-miR11112-3p, lja-miR11113-3p, lja-miR11113-5p, lja-miR11114-3p, lja-miR11114-5p, lja-miR11115-5p, lja-miR11116-3p, lja-miR11117a-3p, lja-miR11117a-5p, lja-miR11117b-3p, lja-miR11118-3p, lja-miR11118-5p, lja-miR11119-5p, lja-miR11120-3p, lja-miR11120-5p, lja-miR11121-3p, lja-miR11122-3p, lja-miR11123-3p, lja-miR11123-5p, lja-miR11124-3p, lja-miR11124-5p, lja-miR11125-5p, lja-miR11126-3p, lja-miR11126-5p, lja-miR11127-5p, lja-miR11128-3p, lja-miR11128-5p, lja-miR11129-3p, lja-miR11130-3p, lja-miR11130-5p, lja-miR11131-3p, lja-miR11131-5p, lja-miR11132-5p, lja-miR11133-5p, lja-miR11134-3p, lja-miR11134-5p, lja-miR11135a-3p, lja-miR11135b-3p, lja-miR11135c-3p, lja-miR11135d-3p, lja-miR11136-3p, lja-miR11136-5p, lja-miR11137-5p, lja-miR11138-3p, lja-miR11139-3p, lja-miR11140-

3p, lja-miR11140-5p, lja-miR11141-3p, lja-miR11142-3p, lja-miR11143-3p, lja-miR11143-5p, lja-miR11144-3p, lja-miR11144-5p, lja-miR11145a-3p, lja-miR11145b-3p, lja-miR11145c-3p, lja-miR11145d-3p, lja-miR11146-3p, lja-miR11147-5p, lja-miR11148-5p, lja-miR11149a-3p, lja-miR11149a-5p, lja-miR11149b-3p, lja-miR11150-3p, lja-miR11151-3p, lja-miR11152-5p, lja-miR11153-5p, lja-miR11154-5p, lja-miR11155a-5p, lja-miR11155b-5p, lja-miR11155c-3p, lja-miR11155c-5p, lja-miR11155d-5p, lja-miR11155e-5p, lja-miR11156-5p, lja-miR11157-3p, lja-miR11158-3p, lja-miR11159-3p, lja-miR11160-5p, lja-miR11161-5p, lja-miR11162-3p, lja-miR11163-5p, lja-miR11164-5p, lja-miR11165-3p, lja-miR11166-3p, lja-miR11167-5p, lja-miR11168-5p, lja-miR11169-5p, lja-miR11170-3p, lja-miR11171-5p, lja-miR11172-5p, lja-miR11173-3p, lja-miR11174-3p, lja-miR11175-5p, lja-miR11176-3p, lja-miR11177-5p, lja-miR11178-3p, lja-miR11179-3p, lja-miR11180-3p, lja-miR1120-3p, lja-miR1507a, lja-miR1507b, lja-miR1511-3p, lja-miR164-5p, lja-miR166-3p, lja-miR167, lja-miR167a, lja-miR167b, lja-miR167c, lja-miR168-3p, lja-miR168-5p, lja-miR171a, lja-miR171b, lja-miR171c, lja-miR171d-3p, lja-miR171d-5p, lja-miR172a, lja-miR172b, lja-miR172c, lja-miR2111-3p, lja-miR2111-5p, lja-miR390a-3p, lja-miR390a-5p, lja-miR390b-3p, lja-miR390b-5p, lja-miR395-3p, lja-miR396, lja-miR397, lja-miR398-3p, lja-miR398-5p, lja-miR408, lja-miR477-3p, lja-miR477-5p, lja-miR5287a-3p, lja-miR5287b-3p, lja-miR5287c-3p, lja-miR5287d-3p, lja-miR7516-3p, lja-miR7516-5p, lja-miR7517, lja-miR7518, lja-miR7519, lja-miR7520, lja-miR7521, lja-miR7522, lja-miR7523a, lja-miR7523b, lja-miR7524, lja-miR7525, lja-miR7526a, lja-miR7526b, lja-miR7526c, lja-miR7526d, lja-miR7526e, lja-miR7526f, lja-miR7526g, lja-miR7526h, lja-miR7526i-3p, lja-miR7526j-3p, lja-miR7526k-3p, lja-miR7526l-3p, lja-miR7526l-5p, lja-miR7527, lja-miR7528, lja-miR7529, lja-miR7530, lja-miR7531, lja-miR7532a, lja-miR7532b, lja-miR7533a, lja-miR7533b, lja-miR7533c-5p, lja-miR7533d-3p, lja-miR7534, lja-miR7535, lja-miR7536a, lja-miR7536b, lja-miR7537, lja-miR7538, lja-miR7539, lja-miR7540a, lja-miR7540b, lja-miR7541, lja-miR7542, lja-miR7543, lja-miR7544, lja-miR7545, lja-miR7546, lla-miR-100, lla-miR-101, lla-miR-103, lla-miR-105, lla-miR-106b, lla-miR-107, lla-miR-124a, lla-miR-125b, lla-miR-127, lla-miR-133a, lla-miR-135, lla-miR-139, lla-miR-143, lla-miR-15a, lla-miR-15b, lla-miR-16, lla-miR-17-3p, lla-miR-17-5p, lla-miR-18, lla-miR-181a-3p, lla-miR-181a-5p, lla-miR-181b, lla-miR-196, lla-miR-198, lla-miR-199a, lla-miR-19a, lla-miR-19b, lla-miR-20, lla-miR-205, lla-miR-218, lla-miR-22, lla-miR-25, lla-miR-26a, lla-miR-28, lla-miR-29a, lla-miR-29b, lla-miR-30b, lla-miR-30c, lla-miR-34a, lla-miR-7, lla-miR-9, lla-miR-92, lla-miR-93, lla-miR-95, lla-miR-99a, lmi-miR-10-3p, lmi-miR-10-5p, lmi-miR-210-3p, lmi-miR-210-5p, lmi-miR-276-3p, lmi-miR-276-5p,

lmi-miR-281-3p, lmi-miR-281-5p, lmi-miR-307-3p, lmi-miR-307-5p, lmi-miR-8-3p, lmi-miR-8-5p, lmi-miR-9a-3p, lmi-miR-9a-5p, lus-miR156a, lus-miR156b, lus-miR156c, lus-miR156d, lus-miR156e, lus-miR156f, lus-miR156g, lus-miR156h, lus-miR156i, lus-miR159a, lus-miR159b, lus-miR159c, lus-miR160a, lus-miR160b, lus-miR160c, lus-miR160d, lus-miR160e, lus-miR160f, lus-miR160g, lus-miR160h, lus-miR160i, lus-miR160j, lus-miR162a, lus-miR162b, lus-miR164a, lus-miR164b, lus-miR164c, lus-miR164d, lus-miR164e, lus-miR166a, lus-miR166b, lus-miR166c, lus-miR166d, lus-miR166e, lus-miR166f, lus-miR166g, lus-miR166h, lus-miR166i, lus-miR166j, lus-miR166k, lus-miR167a, lus-miR167b, lus-miR167c, lus-miR167d, lus-miR167e, lus-miR167f, lus-miR167g, lus-miR167h, lus-miR167i, lus-miR168a, lus-miR168b, lus-miR169a, lus-miR169b, lus-miR169c, lus-miR169d, lus-miR169e, lus-miR169f, lus-miR169g, lus-miR169h, lus-miR169i, lus-miR169j, lus-miR169k, lus-miR169l, lus-miR171a, lus-miR171b, lus-miR171c, lus-miR171d, lus-miR171e, lus-miR171f, lus-miR171g, lus-miR171h, lus-miR171i, lus-miR171j, lus-miR172a, lus-miR172b, lus-miR172c, lus-miR172d, lus-miR172e, lus-miR172f, lus-miR172g, lus-miR172h, lus-miR172i, lus-miR172j, lus-miR319a, lus-miR319b, lus-miR390a, lus-miR390b, lus-miR390c, lus-miR390d, lus-miR393a, lus-miR393b, lus-miR393c, lus-miR393d, lus-miR394a, lus-miR394b, lus-miR395a, lus-miR395b, lus-miR395c, lus-miR395d, lus-miR395e, lus-miR396a, lus-miR396b, lus-miR396c, lus-miR396d, lus-miR396e, lus-miR397a, lus-miR397b, lus-miR398a, lus-miR398b, lus-miR398c, lus-miR398d, lus-miR398e, lus-miR398f, lus-miR399a, lus-miR399b, lus-miR399c, lus-miR399d, lus-miR399e, lus-miR399f, lus-miR399g, lus-miR408a, lus-miR530a, lus-miR530b, lus-miR828a, lva-let-7-5p, lva-miR-1-3p, lva-miR-10-5p, lva-miR-124-3p, lva-miR-125-5p, lva-miR-133-3p, lva-miR-137-3p, lva-miR-153-3p, lva-miR-182-5p, lva-miR-183-5p, lva-miR-184-3p, lva-miR-193-3p, lva-miR-200-3p, lva-miR-2001-5p, lva-miR-2002-3p, lva-miR-2003-5p, lva-miR-2004-3p, lva-miR-2005-5p, lva-miR-2006-3p, lva-miR-2007-5p, lva-miR-2008-5p, lva-miR-2009-3p, lva-miR-2010-3p, lva-miR-2011-3p, lva-miR-2012-5p, lva-miR-2013-3p, lva-miR-210-3p, lva-miR-219-5p, lva-miR-22-3p, lva-miR-242-5p, lva-miR-252a-5p, lva-miR-252b-5p, lva-miR-278-3p, lva-miR-29a-3p, lva-miR-29b-3p, lva-miR-31-5p, lva-miR-33-5p, lva-miR-34-5p, lva-miR-375-3p, lva-miR-4847-5p, lva-miR-4850-5p, lva-miR-4854-3p, lva-miR-7-5p, lva-miR-71-5p, lva-miR-9-5p, lva-miR-92a-3p, lva-miR-92b-3p, lva-miR-96-5p, lva-miR-981-3p, mcmv-miR-m01-1, mcmv-miR-m01-2-3p, mcmv-miR-m01-2-5p, mcmv-miR-m01-3-3p, mcmv-miR-m01-3-5p, mcmv-miR-m01-4-3p, mcmv-miR-m01-4-5p, mcmv-miR-m107-1-3p, mcmv-miR-m107-1-5p, mcmv-miR-m108-1-3p, mcmv-miR-m108-1-5p, mcmv-

miR-m108-2-3p, mcmv-miR-m108-2-5p.1, mcmv-miR-m108-2-5p.2, mcmv-miR-m21-1, mcmv-miR-m22-1, mcmv-miR-M23-1-3p, mcmv-miR-M23-1-5p, mcmv-miR-M23-2-3p, mcmv-miR-M23-2-5p, mcmv-miR-M44-1, mcmv-miR-M55-1, mcmv-miR-m59-1, mcmv-miR-m59-2, mcmv-miR-M87-1, mcmv-miR-m88-1-3p, mcmv-miR-m88-1-5p, mcmv-miR-M95-1-3p, mcmv-miR-M95-1-5p, mco-bantam-3p, mco-let-7-5p, mco-miR-1-3p, mco-miR-10-5p, mco-miR-10293-3p, mco-miR-12065-3p, mco-miR-12066-3p, mco-miR-12067-3p, mco-miR-12068-3p, mco-miR-12068-5p, mco-miR-12069-3p, mco-miR-12070-3p, mco-miR-12071-5p, mco-miR-124a-3p, mco-miR-124b-3p, mco-miR-125-5p, mco-miR-133-3p, mco-miR-153-3p, mco-miR-153-5p, mco-miR-184-3p, mco-miR-190-3p, mco-miR-190-5p, mco-miR-2162-3p, mco-miR-219-5p, mco-miR-277-3p, mco-miR-277b-3p, mco-miR-281-3p, mco-miR-2a-3p, mco-miR-2b-3p, mco-miR-2c-3p, mco-miR-307-3p, mco-miR-31-5p, mco-miR-3479a-3p, mco-miR-3479b-3p, mco-miR-36a-3p, mco-miR-36b-3p, mco-miR-4989-3p, mco-miR-61-3p, mco-miR-71-5p, mco-miR-745-3p, mco-miR-7a-5p, mco-miR-7b-3p, mco-miR-87-3p, mco-miR-9-5p, mco-miR-96-5p, mcpv-miR-P1-3p, mcpv-miR-P1-5p, mdm-miR10978a, mdm-miR10978b, mdm-miR10979, mdm-miR10980a, mdm-miR10980b, mdm-miR10981a, mdm-miR10981b, mdm-miR10981c, mdm-miR10981d, mdm-miR10982a, mdm-miR10982b, mdm-miR10982c, mdm-miR10982d, mdm-miR10983, mdm-miR10984a-3p, mdm-miR10984a-5p, mdm-miR10984b-3p, mdm-miR10984b-5p, mdm-miR10985, mdm-miR10986, mdm-miR10987, mdm-miR10988, mdm-miR10989a, mdm-miR10989b, mdm-miR10989c, mdm-miR10989d, mdm-miR10989e, mdm-miR10990, mdm-miR10991a, mdm-miR10991b, mdm-miR10991c, mdm-miR10991d, mdm-miR10991e, mdm-miR10992, mdm-miR10993a, mdm-miR10993b, mdm-miR10993c, mdm-miR10993d, mdm-miR10993e, mdm-miR10993f, mdm-miR10994-3p, mdm-miR10994-5p, mdm-miR10995, mdm-miR10996a, mdm-miR10996b, mdm-miR10997, mdm-miR10998, mdm-miR10999a, mdm-miR10999b, mdm-miR11000, mdm-miR11001, mdm-miR11002a, mdm-miR11002b, mdm-miR11002c-3p, mdm-miR11002c-5p, mdm-miR11003, mdm-miR11004, mdm-miR11005, mdm-miR11006, mdm-miR11007, mdm-miR11008, mdm-miR11009, mdm-miR11010, mdm-miR11011a, mdm-miR11011b, mdm-miR11012a, mdm-miR11012b, mdm-miR11013, mdm-miR11014, mdm-miR11015, mdm-miR11016, mdm-miR11017, mdm-miR11018, mdm-miR11019, mdm-miR11020, mdm-miR1511, mdm-miR156a, mdm-miR156aa, mdm-miR156ab, mdm-miR156ac, mdm-miR156ad, mdm-miR156ae, mdm-miR156b, mdm-miR156c, mdm-miR156d, mdm-miR156e, mdm-miR156f, mdm-miR156g, mdm-miR156h, mdm-miR156i, mdm-miR156j, mdm-miR156k, mdm-miR156l, mdm-miR156m, mdm-miR156n, mdm-miR156o, mdm-miR156p, mdm-miR156q, mdm-miR156r,

mdm-miR156s, mdm-miR156t, mdm-miR156u, mdm-miR156v, mdm-miR156w, mdm-miR156x, mdm-miR156y, mdm-miR156z, mdm-miR159a, mdm-miR159b, mdm-miR159c, mdm-miR159d, mdm-miR159e, mdm-miR159f, mdm-miR160a, mdm-miR160b, mdm-miR160c, mdm-miR160d, mdm-miR160e, mdm-miR162a, mdm-miR162b, mdm-miR164a, mdm-miR164b, mdm-miR164c, mdm-miR164d, mdm-miR164e, mdm-miR164f, mdm-miR166a, mdm-miR166b, mdm-miR166c, mdm-miR166d, mdm-miR166e, mdm-miR166f, mdm-miR166g, mdm-miR166h, mdm-miR166i, mdm-miR166j, mdm-miR167a, mdm-miR167b, mdm-miR167c, mdm-miR167d, mdm-miR167e, mdm-miR167f, mdm-miR167g, mdm-miR167h, mdm-miR167i, mdm-miR167j, mdm-miR168a, mdm-miR168b, mdm-miR169a, mdm-miR169b, mdm-miR169c, mdm-miR169d, mdm-miR169e, mdm-miR169f, mdm-miR169g, mdm-miR169h, mdm-miR169i, mdm-miR169j, mdm-miR169k, mdm-miR169l, mdm-miR169m, mdm-miR169n, mdm-miR169o, mdm-miR171a, mdm-miR171b, mdm-miR171c, mdm-miR171d, mdm-miR171e, mdm-miR171f-3p, mdm-miR171f-5p, mdm-miR171g, mdm-miR171h, mdm-miR171i, mdm-miR171j, mdm-miR171k, mdm-miR171l, mdm-miR171m, mdm-miR171n, mdm-miR171o, mdm-miR171p, mdm-miR171q, mdm-miR172a, mdm-miR172b, mdm-miR172c, mdm-miR172d, mdm-miR172e, mdm-miR172f, mdm-miR172g, mdm-miR172h, mdm-miR172i, mdm-miR172j, mdm-miR172k, mdm-miR172l, mdm-miR172m, mdm-miR172n, mdm-miR172o, mdm-miR172p, mdm-miR2111a, mdm-miR2111b, mdm-miR2118a, mdm-miR2118b, mdm-miR2118c, mdm-miR319a, mdm-miR319b-3p, mdm-miR319b-5p, mdm-miR319c-3p, mdm-miR319c-5p, mdm-miR319d, mdm-miR319e, mdm-miR319f, mdm-miR319g, mdm-miR319h, mdm-miR3627a, mdm-miR3627b, mdm-miR3627c, mdm-miR3627d, mdm-miR390a, mdm-miR390b, mdm-miR390c, mdm-miR390d, mdm-miR390e, mdm-miR390f, mdm-miR391, mdm-miR393a, mdm-miR393b, mdm-miR393c, mdm-miR393d, mdm-miR393e, mdm-miR393f, mdm-miR393g, mdm-miR393h, mdm-miR394a, mdm-miR394b, mdm-miR395a, mdm-miR395b, mdm-miR395c, mdm-miR395d-3p, mdm-miR395d-5p, mdm-miR395e, mdm-miR395f, mdm-miR395g-3p, mdm-miR395g-5p, mdm-miR395h, mdm-miR395i-3p, mdm-miR395i-5p, mdm-miR395j, mdm-miR395k, mdm-miR395l, mdm-miR396a, mdm-miR396b, mdm-miR396c, mdm-miR396d, mdm-miR396e, mdm-miR396f, mdm-miR396g, mdm-miR397a, mdm-miR397b, mdm-miR398a, mdm-miR398b, mdm-miR398c, mdm-miR399a, mdm-miR399b, mdm-miR399c, mdm-miR399d, mdm-miR399e, mdm-miR399f, mdm-miR399g, mdm-miR399h, mdm-miR399i, mdm-miR399j, mdm-miR399k, mdm-miR403a, mdm-miR403b, mdm-miR408a, mdm-miR408b, mdm-miR408c, mdm-miR408d, mdm-miR477a, mdm-miR477b, mdm-miR482a-3p, mdm-miR482a-5p, mdm-miR482b,

mdm-miR482c, mdm-miR482d, mdm-miR5225a, mdm-miR5225b, mdm-miR5225c, mdm-miR530a, mdm-miR530b, mdm-miR530c, mdm-miR535a, mdm-miR535b, mdm-miR535c, mdm-miR535d, mdm-miR7120a-3p, mdm-miR7120a-5p, mdm-miR7120b-3p, mdm-miR7120b-5p, mdm-miR7121a, mdm-miR7121b, mdm-miR7121c, mdm-miR7121d, mdm-miR7121e, mdm-miR7121f, mdm-miR7121g, mdm-miR7121h, mdm-miR7122a, mdm-miR7122b, mdm-miR7123a, mdm-miR7123b, mdm-miR7124a, mdm-miR7124b, mdm-miR7125, mdm-miR7126-3p, mdm-miR7126-5p, mdm-miR7127a, mdm-miR7127b, mdm-miR7128, mdm-miR827, mdm-miR828a, mdm-miR828b, mdm-miR858, mdo-let-7a-3p, mdo-let-7a-5p, mdo-let-7b, mdo-let-7d, mdo-let-7f-1-3p, mdo-let-7f-2-3p, mdo-let-7f-5p, mdo-let-7g-3p, mdo-let-7g-5p, mdo-let-7i-3p, mdo-let-7i-5p, mdo-miR-1-1-5p, mdo-miR-1-2-5p, mdo-miR-1-3p, mdo-miR-100-3p, mdo-miR-100-5p, mdo-miR-101-1-5p, mdo-miR-101-2-5p, mdo-miR-101-3p, mdo-miR-103-1-5p, mdo-miR-103-2-5p, mdo-miR-103-3p, mdo-miR-106-3p, mdo-miR-106-5p, mdo-miR-107, mdo-miR-10a-3p, mdo-miR-10a-5p, mdo-miR-10b-3p, mdo-miR-10b-5p, mdo-miR-122-3p, mdo-miR-122-5p, mdo-miR-12296-5p, mdo-miR-12297a-3p, mdo-miR-12297a-5p, mdo-miR-12297b-5p, mdo-miR-12297c-3p, mdo-miR-12297c-5p, mdo-miR-12297d-5p, mdo-miR-12297e-3p, mdo-miR-12297f-3p, mdo-miR-12297g-3p, mdo-miR-12297g-5p, mdo-miR-12297h-3p, mdo-miR-12297i-3p, mdo-miR-12297i-5p, mdo-miR-12297j-3p, mdo-miR-12297j-5p, mdo-miR-12298-3p, mdo-miR-12298-5p, mdo-miR-12299-3p, mdo-miR-12299-5p, mdo-miR-122b-3p, mdo-miR-122b-5p, mdo-miR-12300-3p, mdo-miR-12300-5p, mdo-miR-12301-3p, mdo-miR-12301-5p, mdo-miR-12302-3p, mdo-miR-12302-5p, mdo-miR-12303-3p, mdo-miR-12303-5p, mdo-miR-12304-3p, mdo-miR-12304-5p, mdo-miR-12305-3p, mdo-miR-12305-5p, mdo-miR-12306-3p, mdo-miR-12306-5p, mdo-miR-12307-3p, mdo-miR-12307-5p, mdo-miR-12308a-3p, mdo-miR-12308a-5p, mdo-miR-12308b-3p, mdo-miR-12308b-5p, mdo-miR-12309-3p, mdo-miR-12309-5p, mdo-miR-12310-3p, mdo-miR-12310-5p, mdo-miR-12311-3p, mdo-miR-12311-5p, mdo-miR-12312-3p, mdo-miR-12312-5p, mdo-miR-12313-3p, mdo-miR-12313-5p, mdo-miR-12314-5p, mdo-miR-12315-3p, mdo-miR-12316-3p, mdo-miR-12316-5p, mdo-miR-12317-5p, mdo-miR-12318-3p, mdo-miR-12318-5p, mdo-miR-12319-3p, mdo-miR-12319-5p, mdo-miR-12320-3p, mdo-miR-12320-5p, mdo-miR-12321-3p, mdo-miR-12321-5p, mdo-miR-12322-3p, mdo-miR-12323-3p, mdo-miR-12323-5p, mdo-miR-12324a-3p, mdo-miR-12324a-5p, mdo-miR-12324b-3p, mdo-miR-12324b-5p, mdo-miR-12325-3p, mdo-miR-12325-5p, mdo-miR-12326-3p, mdo-miR-12326-5p, mdo-miR-12327-3p, mdo-miR-12328-3p, mdo-miR-12328-5p, mdo-miR-12329-3p, mdo-miR-12329-5p, mdo-miR-12330-3p, mdo-miR-12330-5p, mdo-miR-12331-3p, mdo-miR-12331-5p, mdo-

miR-12332-3p, mdo-miR-12332-5p, mdo-miR-12333-3p, mdo-miR-12333-5p, mdo-miR-12334-3p, mdo-miR-12334-5p, mdo-miR-12335-3p, mdo-miR-12335-5p, mdo-miR-12336-3p, mdo-miR-12336-5p, mdo-miR-12337-3p, mdo-miR-12337-5p, mdo-miR-12338-3p, mdo-miR-12338-5p, mdo-miR-12339-3p, mdo-miR-12339-5p, mdo-miR-12340-3p, mdo-miR-12340-5p, mdo-miR-12341-3p, mdo-miR-12341-5p, mdo-miR-12342-3p, mdo-miR-12342-5p, mdo-miR-12343-3p, mdo-miR-12343-5p, mdo-miR-12344-3p, mdo-miR-12344-5p, mdo-miR-12345-3p, mdo-miR-12346-3p, mdo-miR-12346-5p, mdo-miR-12347-3p, mdo-miR-12347-5p, mdo-miR-12348-3p, mdo-miR-12348-5p, mdo-miR-12349-3p, mdo-miR-12350-5p, mdo-miR-12351-3p, mdo-miR-12351-5p, mdo-miR-12352-3p, mdo-miR-12352-5p, mdo-miR-12353-3p, mdo-miR-12353-5p, mdo-miR-12354-3p, mdo-miR-12354-5p, mdo-miR-12355-3p, mdo-miR-12355-5p, mdo-miR-12356-3p, mdo-miR-12356-5p, mdo-miR-12357-3p, mdo-miR-12357-5p, mdo-miR-12358-3p, mdo-miR-12358-5p, mdo-miR-12359-3p, mdo-miR-12359-5p, mdo-miR-12360-3p, mdo-miR-12360-5p, mdo-miR-12361-3p, mdo-miR-12361-5p, mdo-miR-12362-3p, mdo-miR-12362-5p, mdo-miR-12363-3p, mdo-miR-12363-5p, mdo-miR-12364-3p, mdo-miR-12364-5p, mdo-miR-12365-3p, mdo-miR-12365-5p, mdo-miR-12366a-3p, mdo-miR-12366a-5p, mdo-miR-12366b-3p, mdo-miR-12366b-5p, mdo-miR-12367-3p, mdo-miR-12367-5p, mdo-miR-12368-3p, mdo-miR-12368-5p, mdo-miR-12369-3p, mdo-miR-12369-5p, mdo-miR-12370-3p, mdo-miR-12370-5p, mdo-miR-12371-3p, mdo-miR-12371-5p, mdo-miR-12372-3p, mdo-miR-12372-5p, mdo-miR-12373-5p, mdo-miR-12374-3p, mdo-miR-12374-5p, mdo-miR-12375-3p, mdo-miR-12375-5p, mdo-miR-12376-3p, mdo-miR-12376-5p, mdo-miR-12377-3p, mdo-miR-12378-3p, mdo-miR-12378-5p, mdo-miR-12379-5p, mdo-miR-12380-3p, mdo-miR-12380-5p, mdo-miR-12381-3p, mdo-miR-12381-5p, mdo-miR-12382-3p, mdo-miR-12382-5p, mdo-miR-12383-3p, mdo-miR-12383-5p, mdo-miR-12384-3p, mdo-miR-12384-5p, mdo-miR-12385-3p, mdo-miR-12385-5p, mdo-miR-12386-3p, mdo-miR-12386-5p, mdo-miR-12387-3p, mdo-miR-12387-5p, mdo-miR-12388-3p, mdo-miR-12388-5p, mdo-miR-12389-3p, mdo-miR-12389-5p, mdo-miR-12390-3p, mdo-miR-12390-5p, mdo-miR-12391-3p, mdo-miR-12391-5p, mdo-miR-12392-3p, mdo-miR-12392-5p, mdo-miR-12393-5p, mdo-miR-12394-3p, mdo-miR-12394-5p, mdo-miR-12395-3p, mdo-miR-12395-5p, mdo-miR-12396-3p, mdo-miR-12396-5p, mdo-miR-12397-3p, mdo-miR-12397-5p, mdo-miR-12398-3p, mdo-miR-12398-5p, mdo-miR-12399-3p, mdo-miR-12399-5p, mdo-miR-12400-5p, mdo-miR-12401-3p, mdo-miR-12401-5p, mdo-miR-12402-3p, mdo-miR-12402-5p, mdo-miR-12403-3p, mdo-miR-12403-5p, mdo-miR-12404-3p, mdo-miR-12404-5p, mdo-miR-12405-3p, mdo-miR-12405-5p, mdo-miR-12406-3p, mdo-miR-12406-5p, mdo-miR-12407-

3p, mdo-miR-12407-5p, mdo-miR-12408-3p, mdo-miR-12408-5p, mdo-miR-12409-3p, mdo-miR-12409-5p, mdo-miR-12410-5p, mdo-miR-12411-3p, mdo-miR-12412-3p, mdo-miR-12412-5p, mdo-miR-124a-3p, mdo-miR-124a-5p, mdo-miR-1251-3p, mdo-miR-1251-5p, mdo-miR-125b-1-3p, mdo-miR-125b-2-3p, mdo-miR-125b-5p, mdo-miR-126-3p, mdo-miR-126-5p, mdo-miR-128a-3p, mdo-miR-128a-5p, mdo-miR-128b-3p, mdo-miR-128b-5p, mdo-miR-129-3p, mdo-miR-129-5p, mdo-miR-1306-3p, mdo-miR-1306-5p, mdo-miR-130a-3p, mdo-miR-130a-5p, mdo-miR-130b-3p, mdo-miR-130b-5p, mdo-miR-130c-1-5p, mdo-miR-130c-2-5p, mdo-miR-130c-3p, mdo-miR-132-3p, mdo-miR-132-5p, mdo-miR-1329-3p, mdo-miR-1329-5p, mdo-miR-133a-1-5p, mdo-miR-133a-2-5p, mdo-miR-133a-3p, mdo-miR-133b-3p, mdo-miR-133b-5p, mdo-miR-135a-3p, mdo-miR-135a-5p, mdo-miR-135b-3p, mdo-miR-135b-5p, mdo-miR-137a, mdo-miR-137b-3p, mdo-miR-137b-5p, mdo-miR-138, mdo-miR-1388-3p, mdo-miR-1388-5p, mdo-miR-139-3p, mdo-miR-139-5p, mdo-miR-140-3p, mdo-miR-140-5p, mdo-miR-141-3p, mdo-miR-141-5p, mdo-miR-142, mdo-miR-143-3p, mdo-miR-143-5p, mdo-miR-144-3p, mdo-miR-144-5p, mdo-miR-145-3p, mdo-miR-145-5p, mdo-miR-146a-3p, mdo-miR-146a-5p, mdo-miR-146b-3p, mdo-miR-146b-5p, mdo-miR-147b, mdo-miR-148-3p, mdo-miR-148-5p, mdo-miR-150-3p, mdo-miR-150-5p, mdo-miR-151, mdo-miR-152-3p, mdo-miR-152-5p, mdo-miR-153-1-5p, mdo-miR-153-2-5p, mdo-miR-153-3p, mdo-miR-1540a, mdo-miR-1540b-3p, mdo-miR-1540b-5p, mdo-miR-1541, mdo-miR-1542-1-5p, mdo-miR-1542-2-5p, mdo-miR-1542-3p, mdo-miR-1543, mdo-miR-1544a-3p, mdo-miR-1544a-5p, mdo-miR-1544b-3p, mdo-miR-1544b-5p, mdo-miR-1544c-3p, mdo-miR-1544c-5p, mdo-miR-1544d-3p, mdo-miR-1544d-5p, mdo-miR-1544e-3p, mdo-miR-1544e-5p, mdo-miR-1544f-3p, mdo-miR-1544f-5p, mdo-miR-1544g-3p, mdo-miR-1544g-5p, mdo-miR-1545a-3p, mdo-miR-1545a-5p, mdo-miR-1545b-3-3p, mdo-miR-1545b-3p, mdo-miR-1545b-5p, mdo-miR-1545c-3p, mdo-miR-1545c-5p, mdo-miR-1545d-3-5p, mdo-miR-1545d-3p, mdo-miR-1545d-4-5p, mdo-miR-1545d-5p, mdo-miR-1545e-3p, mdo-miR-1545e-5p, mdo-miR-1545f-3p, mdo-miR-1545f-5p, mdo-miR-1545g-3-5p, mdo-miR-1545g-3p, mdo-miR-1545g-5p, mdo-miR-1546-3p, mdo-miR-1546-5p, mdo-miR-1546b-3p, mdo-miR-1546b-5p, mdo-miR-1547-3p, mdo-miR-1547-5p, mdo-miR-1548-3p, mdo-miR-1548-5p, mdo-miR-1549-3p, mdo-miR-1549-5p, mdo-miR-1549b-3p, mdo-miR-1549b-5p, mdo-miR-15a-3p, mdo-miR-15a-5p, mdo-miR-15c-3p, mdo-miR-15c-5p, mdo-miR-16-1-3p, mdo-miR-16-2-3p, mdo-miR-16-5p, mdo-miR-1643a-3p, mdo-miR-1643a-5p, mdo-miR-1643b-3p, mdo-miR-1643b-5p, mdo-miR-16b-3p, mdo-miR-16b-5p, mdo-miR-17-3p, mdo-miR-17-5p, mdo-miR-1805-3p, mdo-miR-1805-5p, mdo-miR-181a-1-3p, mdo-miR-181a-2-3p, mdo-miR-181a-3-3p, mdo-miR-181a-5p, mdo-miR-181b-1-3p, mdo-miR-181b-2-3p,

mdo-miR-181b-3-3p, mdo-miR-181b-5p, mdo-miR-182-3p, mdo-miR-182-5p, mdo-miR-183-3p, mdo-miR-183-5p, mdo-miR-184-3p, mdo-miR-184-5p, mdo-miR-186-3p, mdo-miR-186-5p, mdo-miR-187-3p, mdo-miR-187-5p, mdo-miR-18a-3p, mdo-miR-18a-5p, mdo-miR-18b-3p, mdo-miR-18b-5p, mdo-miR-190a-3p, mdo-miR-190a-5p, mdo-miR-190b, mdo-miR-191-3p, mdo-miR-191-5p, mdo-miR-193a-3p, mdo-miR-193a-5p, mdo-miR-193b-3p, mdo-miR-193b-5p, mdo-miR-195, mdo-miR-196a-3p, mdo-miR-196a-5p, mdo-miR-196b, mdo-miR-199b-1-5p, mdo-miR-199b-2-5p, mdo-miR-199b-3-5p, mdo-miR-199b-3p, mdo-miR-19a-3p, mdo-miR-19a-5p, mdo-miR-19b-1-5p, mdo-miR-19b-2-5p, mdo-miR-19b-3p, mdo-miR-200a-3p, mdo-miR-200a-5p, mdo-miR-200b-3p, mdo-miR-200b-5p, mdo-miR-200c-3p, mdo-miR-200c-5p, mdo-miR-203, mdo-miR-204, mdo-miR-205a, mdo-miR-205b-3p, mdo-miR-205b-5p, mdo-miR-206, mdo-miR-208a, mdo-miR-208b-3p, mdo-miR-208b-5p, mdo-miR-20a-3p, mdo-miR-20a-5p, mdo-miR-20b-3p, mdo-miR-20b-5p, mdo-miR-21-3p, mdo-miR-21-5p, mdo-miR-210-3p, mdo-miR-210-5p, mdo-miR-210b-3p, mdo-miR-210b-5p, mdo-miR-212-3p, mdo-miR-212-5p, mdo-miR-214-3p, mdo-miR-214-5p, mdo-miR-215, mdo-miR-216, mdo-miR-217, mdo-miR-218-1-3p, mdo-miR-218-2-3p, mdo-miR-218-5p, mdo-miR-219-1-3p, mdo-miR-219-2-3p, mdo-miR-219-5p, mdo-miR-22-3p, mdo-miR-22-5p, mdo-miR-221-3p, mdo-miR-221-5p, mdo-miR-222a, mdo-miR-223-3p, mdo-miR-223-5p, mdo-miR-23a-3p, mdo-miR-23a-5p, mdo-miR-23b-3p, mdo-miR-23b-5p, mdo-miR-24-3p, mdo-miR-24-5p, mdo-miR-25, mdo-miR-26-1-3p, mdo-miR-26-2-3p, mdo-miR-26-3-3p, mdo-miR-26-5p, mdo-miR-27a-3p, mdo-miR-27a-5p, mdo-miR-27b-3p, mdo-miR-27b-5p, mdo-miR-28, mdo-miR-2970-3p, mdo-miR-2970-5p, mdo-miR-2985-2-3p, mdo-miR-2985-3p, mdo-miR-2985-5p, mdo-miR-29a-1-5p, mdo-miR-29a-2-5p, mdo-miR-29a-3p, mdo-miR-29b-1-5p, mdo-miR-29b-2-5p, mdo-miR-29b-3p, mdo-miR-301-3p, mdo-miR-301-5p, mdo-miR-302a, mdo-miR-302b, mdo-miR-302c, mdo-miR-302d, mdo-miR-30a-3p, mdo-miR-30a-5p, mdo-miR-30b-3p, mdo-miR-30b-5p, mdo-miR-30c-1-3p, mdo-miR-30c-2-3p, mdo-miR-30c-5p, mdo-miR-30d-3p, mdo-miR-30d-5p, mdo-miR-30e-3p, mdo-miR-30e-5p, mdo-miR-31-3p, mdo-miR-31-5p, mdo-miR-32-3p, mdo-miR-32-5p, mdo-miR-325-3p, mdo-miR-325-5p, mdo-miR-33-3p, mdo-miR-33-5p, mdo-miR-338, mdo-miR-340-3p, mdo-miR-340-5p, mdo-miR-34a-3p, mdo-miR-34a-5p, mdo-miR-34b-3p, mdo-miR-34b-5p, mdo-miR-34c-3p, mdo-miR-34c-5p, mdo-miR-34d-3p, mdo-miR-34d-5p, mdo-miR-352-3p, mdo-miR-352-5p, mdo-miR-3600-3p, mdo-miR-363, mdo-miR-365-3p, mdo-miR-365-5p, mdo-miR-367, mdo-miR-375, mdo-miR-383-3p, mdo-miR-383-5p, mdo-miR-425-3p, mdo-miR-425-5p, mdo-miR-429, mdo-miR-449a-3p, mdo-miR-449a-5p, mdo-miR-449b-3p, mdo-miR-449b-5p, mdo-miR-449c-3p, mdo-miR-449c-5p, mdo-miR-451, mdo-miR-455-3p, mdo-miR-

455-5p, mdo-miR-460-3p, mdo-miR-460-5p, mdo-miR-497-3p, mdo-miR-497-5p, mdo-miR-499-3p, mdo-miR-499-5p, mdo-miR-505-3p, mdo-miR-505-5p, mdo-miR-551a, mdo-miR-551b-3p, mdo-miR-551b-5p, mdo-miR-551c-3p, mdo-miR-551c-5p, mdo-miR-599-3p, mdo-miR-599-5p, mdo-miR-7, mdo-miR-7244-3p, mdo-miR-7244-5p, mdo-miR-7245-3p, mdo-miR-7245-5p, mdo-miR-7246-3p, mdo-miR-7246-5p, mdo-miR-7247-3p, mdo-miR-7247-5p, mdo-miR-7248-3p, mdo-miR-7248-5p, mdo-miR-7249-3p, mdo-miR-7249-5p, mdo-miR-7250-3p, mdo-miR-7250-5p, mdo-miR-7251-3p, mdo-miR-7251-5p, mdo-miR-7252-3p, mdo-miR-7252-5p, mdo-miR-7253-3p, mdo-miR-7253-5p, mdo-miR-7254-3p, mdo-miR-7254-5p, mdo-miR-7255-3p, mdo-miR-7255-5p, mdo-miR-7256-3p, mdo-miR-7256-5p, mdo-miR-7257-3p, mdo-miR-7257-5p, mdo-miR-7258-3p, mdo-miR-7258-5p, mdo-miR-7259-3p, mdo-miR-7259-5p, mdo-miR-7260-3p, mdo-miR-7260-5p, mdo-miR-7261-3p, mdo-miR-7261-5p, mdo-miR-7262a-3p, mdo-miR-7262a-5p, mdo-miR-7262b-3p, mdo-miR-7262b-5p, mdo-miR-7262c-3p, mdo-miR-7262c-5p, mdo-miR-7262d-3p, mdo-miR-7262d-5p, mdo-miR-7262e-3p, mdo-miR-7262e-5p, mdo-miR-7262f-3p, mdo-miR-7262f-5p, mdo-miR-7262g-3p, mdo-miR-7262g-5p, mdo-miR-7262h-3p, mdo-miR-7262h-5p, mdo-miR-7262i-3p, mdo-miR-7262i-5p, mdo-miR-7262j-3p, mdo-miR-7262j-5p, mdo-miR-7262k-3p, mdo-miR-7262k-5p, mdo-miR-7262l-3p, mdo-miR-7262l-5p, mdo-miR-7262m-3p, mdo-miR-7263-3p, mdo-miR-7263-5p, mdo-miR-7264-3p, mdo-miR-7264-5p, mdo-miR-7265-3p, mdo-miR-7265-5p, mdo-miR-7266-3p, mdo-miR-7266-5p, mdo-miR-7267-3p, mdo-miR-7267-5p, mdo-miR-7268-3p, mdo-miR-7268-5p, mdo-miR-7269-3p, mdo-miR-7269-5p, mdo-miR-7270-3p, mdo-miR-7270-5p, mdo-miR-7271-3p, mdo-miR-7271-5p, mdo-miR-7272-3p, mdo-miR-7272-5p, mdo-miR-7273-3p, mdo-miR-7273-5p, mdo-miR-7274-3p, mdo-miR-7274-5p, mdo-miR-7275-3p, mdo-miR-7275-5p, mdo-miR-7276-3p, mdo-miR-7276-5p, mdo-miR-7277-3p, mdo-miR-7277-5p, mdo-miR-7278-3p, mdo-miR-7278-5p, mdo-miR-7279-3p, mdo-miR-7279-5p, mdo-miR-7280-3p, mdo-miR-7280-5p, mdo-miR-7281-3p, mdo-miR-7281-5p, mdo-miR-7282-3p, mdo-miR-7282-5p, mdo-miR-7283-3p, mdo-miR-7283-5p, mdo-miR-7284-3p, mdo-miR-7284-5p, mdo-miR-7284b-3p, mdo-miR-7284b-5p, mdo-miR-7285-3p, mdo-miR-7285-5p, mdo-miR-7286-3p, mdo-miR-7286-5p, mdo-miR-7286b-3p, mdo-miR-7286b-5p, mdo-miR-7287-3p, mdo-miR-7287-5p, mdo-miR-7288-3p, mdo-miR-7288-5p, mdo-miR-7289-3p, mdo-miR-7289-5p, mdo-miR-7290-3p, mdo-miR-7290-5p, mdo-miR-7291-3p, mdo-miR-7291-5p, mdo-miR-7292-3p, mdo-miR-7292-5p, mdo-miR-7293-3p, mdo-miR-7293-5p, mdo-miR-7294-3p, mdo-miR-7294-5p, mdo-miR-7295-3p, mdo-miR-7295-5p, mdo-miR-7296-3p, mdo-miR-7296-5p, mdo-miR-7297-3p, mdo-miR-7297-5p, mdo-miR-7298-3p, mdo-miR-7298-5p, mdo-

miR-7299-3p, mdo-miR-7299-5p, mdo-miR-7300-3p, mdo-miR-7300-5p, mdo-miR-7301-3p, mdo-miR-7301-5p, mdo-miR-7302-3p, mdo-miR-7302-5p, mdo-miR-7303-3p, mdo-miR-7303-5p, mdo-miR-7304-3p, mdo-miR-7304-5p, mdo-miR-7305-3p, mdo-miR-7305-5p, mdo-miR-7306-3p, mdo-miR-7306-5p, mdo-miR-7307-3p, mdo-miR-7307-5p, mdo-miR-7308-3p, mdo-miR-7308-5p, mdo-miR-7309-3p, mdo-miR-7309-5p, mdo-miR-7310-3p, mdo-miR-7310-5p, mdo-miR-7311-3p, mdo-miR-7311-5p, mdo-miR-7312-3p, mdo-miR-7312-5p, mdo-miR-7312b-3p, mdo-miR-7312b-5p, mdo-miR-7313-3p, mdo-miR-7313-5p, mdo-miR-7314-3p, mdo-miR-7314-5p, mdo-miR-7315-3p, mdo-miR-7315-5p, mdo-miR-7316-3p, mdo-miR-7316-5p, mdo-miR-7317-3p, mdo-miR-7317-5p, mdo-miR-7318-3p, mdo-miR-7318-5p, mdo-miR-7319-3p, mdo-miR-7319-5p, mdo-miR-7320-3p, mdo-miR-7320-5p, mdo-miR-7320b-5p, mdo-miR-7321-3p, mdo-miR-7321-5p, mdo-miR-7322-3p, mdo-miR-7322-5p, mdo-miR-7323-3p, mdo-miR-7323-5p, mdo-miR-7323b-3p, mdo-miR-7323b-5p, mdo-miR-7324-3p, mdo-miR-7324-5p, mdo-miR-7325-3p, mdo-miR-7325-5p, mdo-miR-7326-3p, mdo-miR-7326-5p, mdo-miR-7327-3p, mdo-miR-7327-5p, mdo-miR-7328-3p, mdo-miR-7328-5p, mdo-miR-7329-3p, mdo-miR-7329-5p, mdo-miR-7330-3p, mdo-miR-7330-5p, mdo-miR-7331-1-3p, mdo-miR-7331-2-3p, mdo-miR-7331-5p, mdo-miR-7332-3p, mdo-miR-7332-5p, mdo-miR-7333-3p, mdo-miR-7333-5p, mdo-miR-7334-3p, mdo-miR-7334-5p, mdo-miR-7335-3p, mdo-miR-7335-5p, mdo-miR-7336-3p, mdo-miR-7336-5p, mdo-miR-7337-3p, mdo-miR-7337-5p, mdo-miR-7338-3p, mdo-miR-7338-5p, mdo-miR-7339-3p, mdo-miR-7339-5p, mdo-miR-7340-3p, mdo-miR-7340-5p, mdo-miR-7341-3p, mdo-miR-7341-5p, mdo-miR-7342-3p, mdo-miR-7342-5p, mdo-miR-7343-3p, mdo-miR-7343-5p, mdo-miR-7344-3p, mdo-miR-7344-5p, mdo-miR-7345-3p, mdo-miR-7345-5p, mdo-miR-7345b-3p, mdo-miR-7345b-5p, mdo-miR-7346-3p, mdo-miR-7346-5p, mdo-miR-7347-3p, mdo-miR-7347-5p, mdo-miR-7348-3p, mdo-miR-7348-5p, mdo-miR-7349-3p, mdo-miR-7349-5p, mdo-miR-7350-3p, mdo-miR-7350-5p, mdo-miR-7351-3p, mdo-miR-7351-5p, mdo-miR-7352-3p, mdo-miR-7352-5p, mdo-miR-7353-3p, mdo-miR-7353-5p, mdo-miR-7354-3p, mdo-miR-7354-5p, mdo-miR-7355-3p, mdo-miR-7355-5p, mdo-miR-7356-3p, mdo-miR-7356-5p, mdo-miR-7356b-3p, mdo-miR-7356b-5p, mdo-miR-7357-3p, mdo-miR-7357-5p, mdo-miR-7358-3p, mdo-miR-7358-5p, mdo-miR-7359-5p, mdo-miR-7359a-3p, mdo-miR-7359b-3p, mdo-miR-7360-3p, mdo-miR-7360-5p, mdo-miR-7360-9-5p, mdo-miR-7361-3p, mdo-miR-7361-5p, mdo-miR-7362-3p, mdo-miR-7362-5p, mdo-miR-7363-3p, mdo-miR-7363-5p, mdo-miR-7364-3p, mdo-miR-7364-5p, mdo-miR-7365-3p, mdo-miR-7365-5p, mdo-miR-7366-3p, mdo-miR-7366-5p, mdo-miR-7367-3p, mdo-miR-7367-5p, mdo-miR-7368-3p, mdo-miR-7368-5p, mdo-miR-7369-3p, mdo-

miR-7369-5p, mdo-miR-7370-3p, mdo-miR-7370-5p, mdo-miR-7370i-3p, mdo-miR-7370i-5p, mdo-miR-7371a-3p, mdo-miR-7371a-5p, mdo-miR-7371b-3p, mdo-miR-7371b-5p, mdo-miR-7371c-3p, mdo-miR-7371c-5p, mdo-miR-7371d-3p, mdo-miR-7371d-5p, mdo-miR-7371e-3p, mdo-miR-7371e-5p, mdo-miR-7371f-3p, mdo-miR-7371f-5p, mdo-miR-7371g-3p, mdo-miR-7371g-5p, mdo-miR-7371h-3p, mdo-miR-7371h-5p, mdo-miR-7371j-3p, mdo-miR-7371j-5p, mdo-miR-7371k-3p, mdo-miR-7371k-5p, mdo-miR-7371l-3p, mdo-miR-7371l-5p, mdo-miR-7371m-3p, mdo-miR-7371m-5p, mdo-miR-7371n-3p, mdo-miR-7371n-5p, mdo-miR-7371o-3p, mdo-miR-7371o-5p, mdo-miR-7371p-3p, mdo-miR-7371p-5p, mdo-miR-7371q-3p, mdo-miR-7371q-5p, mdo-miR-7372-3p, mdo-miR-7372-5p, mdo-miR-7373a-3p, mdo-miR-7373a-5p, mdo-miR-7373b-3p, mdo-miR-7373b-5p, mdo-miR-7373c-3p, mdo-miR-7373c-5p, mdo-miR-7373d-3p, mdo-miR-7373d-5p, mdo-miR-7373e-3p, mdo-miR-7373e-5p, mdo-miR-7373f-3p, mdo-miR-7373f-5p, mdo-miR-7374a-3p, mdo-miR-7374a-5p, mdo-miR-7374b-3p, mdo-miR-7374b-5p, mdo-miR-7374c-3p, mdo-miR-7374c-5p, mdo-miR-7374d-3p, mdo-miR-7374d-5p, mdo-miR-7375-3p, mdo-miR-7375-5p, mdo-miR-7375c-3p, mdo-miR-7375c-4-5p, mdo-miR-7375c-5p, mdo-miR-7375d-3p, mdo-miR-7375d-5p, mdo-miR-7375e-3p, mdo-miR-7375e-5p, mdo-miR-7376-3p, mdo-miR-7376-5p, mdo-miR-7377-3p, mdo-miR-7377-5p, mdo-miR-7378-3p, mdo-miR-7378-5p, mdo-miR-7379-3p, mdo-miR-7379-5p, mdo-miR-7380-3p, mdo-miR-7380-5p, mdo-miR-7381-3p, mdo-miR-7381-5p, mdo-miR-7382-3p, mdo-miR-7382-5p, mdo-miR-7383-3p, mdo-miR-7383-5p, mdo-miR-7384-3p, mdo-miR-7384-5p, mdo-miR-7385a-3p, mdo-miR-7385a-5p, mdo-miR-7385b-3p, mdo-miR-7385b-5p, mdo-miR-7385c-3p, mdo-miR-7385c-5p, mdo-miR-7385d-3p, mdo-miR-7385d-5p, mdo-miR-7385e-3p, mdo-miR-7385e-5p, mdo-miR-7385f-3p, mdo-miR-7385f-5p, mdo-miR-7385g-2-3p, mdo-miR-7385g-3-3p, mdo-miR-7385g-3p, mdo-miR-7385g-5p, mdo-miR-7385h-3p, mdo-miR-7385h-5p, mdo-miR-7385i-2-3p, mdo-miR-7385i-3p, mdo-miR-7385i-5p, mdo-miR-7386a-3-3p, mdo-miR-7386a-3p, mdo-miR-7386a-5p, mdo-miR-7386b-3p, mdo-miR-7386b-5p, mdo-miR-7386c-3p, mdo-miR-7386c-5p, mdo-miR-7386d-3p, mdo-miR-7386d-5p, mdo-miR-7386e-3p, mdo-miR-7386e-5p, mdo-miR-7386f-3p, mdo-miR-7386f-5p, mdo-miR-7386g-3p, mdo-miR-7386g-5p, mdo-miR-7386h-3p, mdo-miR-7386h-5p, mdo-miR-7386i-3p, mdo-miR-7386i-5p, mdo-miR-7386j-3p, mdo-miR-7386j-5p, mdo-miR-7386k-3p, mdo-miR-7386k-5p, mdo-miR-7386l-3p, mdo-miR-7386l-5p, mdo-miR-7386m-3p, mdo-miR-7386m-5p, mdo-miR-7386n-3p, mdo-miR-7386n-5p, mdo-miR-7386o-3p, mdo-miR-7386o-5p, mdo-miR-7386p-3p, mdo-miR-7386p-5p, mdo-miR-7386q-3p, mdo-miR-7386q-5p, mdo-miR-7387-3p, mdo-miR-7387-5p, mdo-miR-7388a-3p, mdo-miR-7388a-5p, mdo-miR-7388b-3p, mdo-miR-

7388b-5p, mdo-miR-7388c-3p, mdo-miR-7388c-5p, mdo-miR-7389-3p, mdo-miR-7389-5p, mdo-miR-7390-3p, mdo-miR-7390-5p, mdo-miR-7391-3p, mdo-miR-7391-5p, mdo-miR-7392-3p, mdo-miR-7392-5p, mdo-miR-7393-3p, mdo-miR-7393-5p, mdo-miR-7394a-3p, mdo-miR-7394a-5p, mdo-miR-7394b-3p, mdo-miR-7394b-5p, mdo-miR-7394c-3p, mdo-miR-7394c-5p, mdo-miR-7395-3p, mdo-miR-7395-5p, mdo-miR-7396-3p, mdo-miR-7396-5p, mdo-miR-7397-3p, mdo-miR-7397-5p, mdo-miR-7398a-1-5p, mdo-miR-7398a-3p, mdo-miR-7398a-4-5p, mdo-miR-7398a-5-5p, mdo-miR-7398a-5p, mdo-miR-7398b-3p, mdo-miR-7398b-5p, mdo-miR-7398c-3p, mdo-miR-7398c-5p, mdo-miR-7398d-3p, mdo-miR-7398d-5p, mdo-miR-7398e-3p, mdo-miR-7398e-5p, mdo-miR-7398f-3p, mdo-miR-7398f-5p, mdo-miR-7398g-3p, mdo-miR-7398g-5p, mdo-miR-7398h-3p, mdo-miR-7398h-5p, mdo-miR-7398i-3p, mdo-miR-7398i-5p, mdo-miR-7398j-3p, mdo-miR-7398j-5p, mdo-miR-7398k-1-3p, mdo-miR-7398k-2-3p, mdo-miR-7398k-5p, mdo-miR-7398l-3p, mdo-miR-7398l-5p, mdo-miR-7398m-3p, mdo-miR-7398m-5p, mdo-miR-7398n-3p, mdo-miR-7398n-5p, mdo-miR-7398o-3p, mdo-miR-7398o-5p, mdo-miR-7398p-3p, mdo-miR-7398p-5p, mdo-miR-7398q-3p, mdo-miR-7398q-5p, mdo-miR-7398r-3p, mdo-miR-7398r-5p, mdo-miR-7398s-3p, mdo-miR-7398s-5p, mdo-miR-7398t-3p, mdo-miR-7398t-5p, mdo-miR-7398u-3p, mdo-miR-7398u-5p, mdo-miR-7398v-3p, mdo-miR-7398v-5p, mdo-miR-7398w-3p, mdo-miR-7398w-5p, mdo-miR-7398x-3p, mdo-miR-7398y-3p, mdo-miR-7398y-5p, mdo-miR-7399-3p, mdo-miR-7399-5p, mdo-miR-759, mdo-miR-761, mdo-miR-873-3p, mdo-miR-873-5p, mdo-miR-875-3p, mdo-miR-875-5p, mdo-miR-885, mdo-miR-92a-1-5p, mdo-miR-92a-2-5p, mdo-miR-92a-3p, mdo-miR-92b-3p, mdo-miR-92b-5p, mdo-miR-93-3p, mdo-miR-93-5p, mdo-miR-96, mdo-miR-9a-3p, mdo-miR-9a-5p, mdo-miR-9b-3p, mdo-miR-9b-5p, mdo-miR-9c-3p, mdo-miR-9c-5p, mdv1-miR-M1-3p, mdv1-miR-M1-5p, mdv1-miR-M10-3p, mdv1-miR-M10-5p, mdv1-miR-M11-3p, mdv1-miR-M11-5p, mdv1-miR-M12-3p, mdv1-miR-M12-5p, mdv1-miR-M13, mdv1-miR-M2-3p, mdv1-miR-M2-5p, mdv1-miR-M3-3p, mdv1-miR-M3-5p, mdv1-miR-M31, mdv1-miR-M4-3p, mdv1-miR-M4-5p, mdv1-miR-M5-3p, mdv1-miR-M5-5p, mdv1-miR-M6-3p, mdv1-miR-M6-5p, mdv1-miR-M7-3p, mdv1-miR-M7-5p, mdv1-miR-M8-3p, mdv1-miR-M8-5p, mdv1-miR-M9-3p, mdv1-miR-M9-5p, mdv2-miR-M14-3p, mdv2-miR-M14-5p, mdv2-miR-M15-3p, mdv2-miR-M15-5p, mdv2-miR-M16-3p, mdv2-miR-M16-5p, mdv2-miR-M17-3p, mdv2-miR-M17-5p, mdv2-miR-M18-3p, mdv2-miR-M18-5p, mdv2-miR-M19-3p, mdv2-miR-M19-5p, mdv2-miR-M20-3p, mdv2-miR-M20-5p, mdv2-miR-M21-3p, mdv2-miR-M21-5p, mdv2-miR-M22-3p, mdv2-miR-M22-5p, mdv2-miR-M23-3p, mdv2-miR-M23-5p, mdv2-miR-M24-3p, mdv2-miR-M24-5p, mdv2-miR-M25-3p, mdv2-miR-M25-5p, mdv2-miR-M26-3p, mdv2-miR-M26-5p,

mdv2-miR-M27-3p, mdv2-miR-M27-5p, mdv2-miR-M28-3p, mdv2-miR-M28-5p, mdv2-miR-M29-3p, mdv2-miR-M29-5p, mdv2-miR-M30-3p, mdv2-miR-M30-5p, mdv2-miR-M32-3p, mdv2-miR-M32-5p, mes-miR11891, mes-miR11892, mes-miR1446, mes-miR1446b, mes-miR156a, mes-miR156b, mes-miR156c, mes-miR156d, mes-miR156e, mes-miR156f, mes-miR156g, mes-miR156h, mes-miR156i, mes-miR156j, mes-miR156k, mes-miR159a-3p, mes-miR159a-5p, mes-miR159b, mes-miR159c, mes-miR159d, mes-miR160a, mes-miR160b, mes-miR160c, mes-miR160d, mes-miR160e, mes-miR160f, mes-miR160g, mes-miR160h, mes-miR162, mes-miR164a, mes-miR164b, mes-miR164c, mes-miR164d, mes-miR166a, mes-miR166b, mes-miR166c, mes-miR166d, mes-miR166e, mes-miR166f, mes-miR166g, mes-miR166h, mes-miR166i, mes-miR166j, mes-miR167a, mes-miR167b, mes-miR167c, mes-miR167d, mes-miR167e, mes-miR167f, mes-miR167g, mes-miR167h, mes-miR168a, mes-miR169a, mes-miR169aa, mes-miR169ab, mes-miR169ac, mes-miR169ad, mes-miR169b, mes-miR169c, mes-miR169d, mes-miR169e, mes-miR169f, mes-miR169g, mes-miR169h, mes-miR169i, mes-miR169j, mes-miR169k, mes-miR169l, mes-miR169m, mes-miR169n, mes-miR169o, mes-miR169p, mes-miR169q, mes-miR169r, mes-miR169s, mes-miR169t, mes-miR169u, mes-miR169v, mes-miR169w, mes-miR169x, mes-miR169y, mes-miR169z, mes-miR171a, mes-miR171b, mes-miR171c, mes-miR171d, mes-miR171e, mes-miR171f, mes-miR171g, mes-miR171h, mes-miR171i, mes-miR171j, mes-miR171k, mes-miR171l, mes-miR172a, mes-miR172b, mes-miR172c, mes-miR172d, mes-miR172e, mes-miR172f, mes-miR2111a, mes-miR2111b, mes-miR2118, mes-miR2275, mes-miR2950, mes-miR319a, mes-miR319b, mes-miR319c, mes-miR319d, mes-miR319e, mes-miR319f, mes-miR319g, mes-miR319h, mes-miR3627, mes-miR390, mes-miR390b, mes-miR393a, mes-miR393b, mes-miR393c, mes-miR393d, mes-miR394a, mes-miR394b, mes-miR394c, mes-miR395a, mes-miR395b, mes-miR395c, mes-miR395d, mes-miR395e, mes-miR396a, mes-miR396b, mes-miR396c, mes-miR396d, mes-miR396e, mes-miR396f, mes-miR397, mes-miR397b, mes-miR398, mes-miR399a, mes-miR399b, mes-miR399c, mes-miR399d, mes-miR399e, mes-miR399f, mes-miR399g, mes-miR399h, mes-miR403a, mes-miR403b, mes-miR408, mes-miR477a, mes-miR477b, mes-miR477c, mes-miR477d, mes-miR477e, mes-miR477f, mes-miR477g, mes-miR477h, mes-miR477i, mes-miR477j, mes-miR477k, mes-miR482, mes-miR482b, mes-miR482c, mes-miR482d, mes-miR482e, mes-miR530a, mes-miR530b, mes-miR535a, mes-miR535b, mes-miR535c, mes-miR535d, mes-miR6445, mes-miR827, mes-miR828a, mes-miR828b, mes-miR9386, meu-miR-15c, meu-miR-16c, meu-miR-6313, mghv-miR-M1-1-3p, mghv-miR-M1-1-5p, mghv-miR-M1-10-3p, mghv-miR-M1-10-5p, mghv-miR-M1-11-3p, mghv-miR-M1-11-5p, mghv-miR-M1-

12-3p, mghv-miR-M1-12-5p, mghv-miR-M1-13-3p, mghv-miR-M1-13-5p, mghv-miR-M1-14-3p, mghv-miR-M1-14-5p, mghv-miR-M1-15, mghv-miR-M1-2-3p, mghv-miR-M1-2-5p, mghv-miR-M1-3-3p, mghv-miR-M1-3-5p, mghv-miR-M1-4-3p, mghv-miR-M1-4-5p, mghv-miR-M1-5-3p, mghv-miR-M1-5-5p, mghv-miR-M1-6-3p, mghv-miR-M1-6-5p, mghv-miR-M1-7-3p, mghv-miR-M1-7-5p, mghv-miR-M1-8-3p, mghv-miR-M1-8-5p, mghv-miR-M1-9, mja-miR-6489-3p, mja-miR-6489-5p, mja-miR-6491, mja-miR-6492, mja-miR-6493-3p, mja-miR-6493-5p, mja-miR-6494, mle-bantam-3p, mle-bantam-5p, mle-let-7-3p, mle-let-7-5p, mle-miR-1-3p, mle-miR-1-5p, mle-miR-100-3p, mle-miR-100-5p, mle-miR-10a-3p, mle-miR-10a-5p, mle-miR-10b-3p, mle-miR-10b-5p, mle-miR-1175-3p, mle-miR-1175-5p, mle-miR-12-3p, mle-miR-12-5p, mle-miR-12096a-3p, mle-miR-12096a-5p, mle-miR-12096b-3p, mle-miR-12096b-5p, mle-miR-12097-3p, mle-miR-12097-5p, mle-miR-12098-3p, mle-miR-12098-5p, mle-miR-12099-3p, mle-miR-12099-5p, mle-miR-12100-3p, mle-miR-12100-5p, mle-miR-12101-2-c5p, mle-miR-12101-3p, mle-miR-12101-5p, mle-miR-12102-3p, mle-miR-12102-5p, mle-miR-12103-3p, mle-miR-12104-3p, mle-miR-124-3p, mle-miR-124-5p, mle-miR-125-3p, mle-miR-125-5p, mle-miR-133-3p, mle-miR-133-5p, mle-miR-137-3p, mle-miR-137-5p, mle-miR-153-3p, mle-miR-153-5p, mle-miR-184-3p, mle-miR-184-5p, mle-miR-190-3p, mle-miR-190-5p, mle-miR-193-3p, mle-miR-193-5p, mle-miR-1984-3p, mle-miR-1984-5p, mle-miR-1985-3p, mle-miR-1985-5p, mle-miR-1986-3p, mle-miR-1986-5p, mle-miR-1988a-3p, mle-miR-1988a-5p, mle-miR-1988b-3p, mle-miR-1988b-5p, mle-miR-1989a-3p, mle-miR-1989a-5p, mle-miR-1989b-3p, mle-miR-1989b-5p, mle-miR-1990-3p, mle-miR-1990-5p, mle-miR-1991-3p, mle-miR-1991-5p, mle-miR-1992-3p, mle-miR-1992-5p, mle-miR-1993-3p, mle-miR-1993-5p, mle-miR-1994a-3p, mle-miR-1994a-5p, mle-miR-1994b-3p, mle-miR-1994b-5p, mle-miR-2001-3p, mle-miR-2001-5p, mle-miR-210-3p, mle-miR-210-5p, mle-miR-216a-3p, mle-miR-216a-5p, mle-miR-216b-3p, mle-miR-216b-5p, mle-miR-219-3p, mle-miR-219-5p, mle-miR-242-3p, mle-miR-242-5p, mle-miR-252a-3p, mle-miR-252a-5p, mle-miR-252b-3p, mle-miR-252b-5p, mle-miR-263a-3p, mle-miR-263a-5p, mle-miR-263b-3p, mle-miR-263b-5p, mle-miR-2722-3p, mle-miR-2722-5p, mle-miR-277-3p, mle-miR-277-5p, mle-miR-279-3p, mle-miR-279-5p, mle-miR-281-3p, mle-miR-281-5p, mle-miR-29a-3p, mle-miR-29a-5p, mle-miR-29b-3p, mle-miR-29b-5p, mle-miR-29c-3p, mle-miR-29c-5p, mle-miR-2a-3p, mle-miR-2a-5p, mle-miR-2b-3p, mle-miR-2b-5p, mle-miR-2c-3p, mle-miR-2c-5p, mle-miR-2d-3p, mle-miR-2d-5p, mle-miR-2e-3p, mle-miR-2e-5p, mle-miR-2f-3p, mle-miR-2f-5p, mle-miR-2g-3p, mle-miR-2g-5p, mle-miR-2h-3p, mle-miR-2h-5p, mle-miR-2i-3p, mle-miR-2i-5p, mle-miR-2j-3p, mle-miR-2j-5p, mle-miR-2k-3p, mle-miR-2k-5p, mle-miR-31-3p, mle-miR-31-5p, mle-miR-315-3p, mle-miR-

315-5p, mle-miR-317-3p, mle-miR-317-5p, mle-miR-33-3p, mle-miR-34-3p, mle-miR-34-5p, mle-miR-365-3p, mle-miR-365-5p, mle-miR-375-3p, mle-miR-375-5p, mle-miR-67-3p, mle-miR-67-5p, mle-miR-7-3p, mle-miR-7-5p, mle-miR-71-3p, mle-miR-71-5p, mle-miR-745a-3p, mle-miR-745a-5p, mle-miR-745b-3p, mle-miR-745b-5p, mle-miR-750-3p, mle-miR-750-5p, mle-miR-8-3p, mle-miR-8-5p, mle-miR-87-3p, mle-miR-87-5p, mle-miR-9-3p, mle-miR-9-5p, mle-miR-92a-3p, mle-miR-92a-5p, mle-miR-92b-3p, mle-miR-92b-5p, mle-miR-92c-3p, mle-miR-92c-5p, mle-miR-96a-3p, mle-miR-96a-5p, mle-miR-96b-3p, mle-miR-96b-5p, mle-miR-981-3p, mle-miR-981-5p, mml-let-7a-2-3p, mml-let-7a-3p, mml-let-7a-5p, mml-let-7b-3p, mml-let-7b-5p, mml-let-7c-3p, mml-let-7c-5p, mml-let-7d, mml-let-7e-3p, mml-let-7e-5p, mml-let-7f-3p, mml-let-7f-5p, mml-let-7g-3p, mml-let-7g-5p, mml-let-7i-3p, mml-let-7i-5p, mml-miR-1-1-5p, mml-miR-1-2-5p, mml-miR-1-3p, mml-miR-100-3p, mml-miR-100-5p, mml-miR-101-1-5p, mml-miR-101-2-5p, mml-miR-101-3p, mml-miR-103-3p, mml-miR-103-5p, mml-miR-105-3p, mml-miR-105-5p, mml-miR-106a-3p, mml-miR-106a-5p, mml-miR-106b-3p, mml-miR-106b-5p, mml-miR-107-3p, mml-miR-107-5p, mml-miR-10a-3p, mml-miR-10a-5p, mml-miR-10b-3p, mml-miR-10b-5p, mml-miR-1179, mml-miR-1180-3p, mml-miR-1180-5p, mml-miR-1185-3p, mml-miR-1185-5p, mml-miR-1224-3p, mml-miR-1224-5p, mml-miR-1225-3p, mml-miR-1225-5p, mml-miR-1226, mml-miR-1227, mml-miR-122a-3p, mml-miR-122a-5p, mml-miR-1230, mml-miR-1232, mml-miR-1233, mml-miR-1234, mml-miR-1235, mml-miR-1239, mml-miR-1240, mml-miR-1241, mml-miR-1243-3p, mml-miR-1243-5p, mml-miR-1245-3p, mml-miR-1245-5p, mml-miR-1247-3p, mml-miR-1247-5p, mml-miR-1249, mml-miR-124a-3p, mml-miR-124a-5p, mml-miR-1250, mml-miR-1251-3p, mml-miR-1251-5p, mml-miR-1255a-3p, mml-miR-1255a-5p, mml-miR-1255b, mml-miR-1258, mml-miR-125a-3p, mml-miR-125a-5p, mml-miR-125b-1-3p, mml-miR-125b-2-3p, mml-miR-125b-5p, mml-miR-126, mml-miR-1260b, mml-miR-1262-3p, mml-miR-1262-5p, mml-miR-127-3p, mml-miR-127-5p, mml-miR-1271-3p, mml-miR-1271-5p, mml-miR-1277, mml-miR-1283, mml-miR-1284, mml-miR-128a-3p, mml-miR-128a-5p, mml-miR-128b-3p, mml-miR-128b-5p, mml-miR-129-1-3p, mml-miR-129-2-3p, mml-miR-129-5p, mml-miR-1296-3p, mml-miR-1296-5p, mml-miR-1298-3p, mml-miR-1298-5p, mml-miR-1304, mml-miR-1306-3p, mml-miR-1306-5p, mml-miR-130a-3p, mml-miR-130a-5p, mml-miR-130b-3p, mml-miR-130b-5p, mml-miR-132-3p, mml-miR-132-5p, mml-miR-1323-3p, mml-miR-1323-5p, mml-miR-133a, mml-miR-133b-3p, mml-miR-133b-5p, mml-miR-133c-3p, mml-miR-133c-5p, mml-miR-134-3p, mml-miR-134-5p, mml-miR-135a-1-3p, mml-miR-135a-2-3p, mml-miR-135a-5p, mml-miR-135b-3p, mml-miR-135b-5p, mml-miR-136, mml-miR-137-3p, mml-miR-137-5p, mml-miR-138-3p,

mml-miR-138-5p, mml-miR-139-3p, mml-miR-139-5p, mml-miR-140-3p, mml-miR-140-5p, mml-miR-141-3p, mml-miR-141-5p, mml-miR-142-3p, mml-miR-142-5p, mml-miR-143-3p, mml-miR-143-5p, mml-miR-144, mml-miR-145-3p, mml-miR-145-5p, mml-miR-146a-3p, mml-miR-146a-5p, mml-miR-146b-3p, mml-miR-146b-5p, mml-miR-147a, mml-miR-147b, mml-miR-148a-3p, mml-miR-148a-5p, mml-miR-148b-3p, mml-miR-148b-5p, mml-miR-149-3p, mml-miR-149-5p, mml-miR-150-3p, mml-miR-150-5p, mml-miR-151-3p, mml-miR-151-5p, mml-miR-152-3p, mml-miR-152-5p, mml-miR-153-1-5p, mml-miR-153-2-5p, mml-miR-153-3p, mml-miR-154-3p, mml-miR-154-5p, mml-miR-155, mml-miR-15a-3p, mml-miR-15a-5p, mml-miR-15b-3p, mml-miR-15b-5p, mml-miR-16-1-3p, mml-miR-16-2-3p, mml-miR-16-5p, mml-miR-17-3p, mml-miR-17-5p, mml-miR-181a-3p, mml-miR-181a-5p, mml-miR-181b-1-3p, mml-miR-181b-2-3p, mml-miR-181b-5p, mml-miR-181c-3p, mml-miR-181c-5p, mml-miR-181d, mml-miR-182, mml-miR-183-3p, mml-miR-183-5p, mml-miR-184, mml-miR-185-3p, mml-miR-185-5p, mml-miR-186-3p, mml-miR-186-5p, mml-miR-187-3p, mml-miR-187-5p, mml-miR-188-3p, mml-miR-188-5p, mml-miR-18a-3p, mml-miR-18a-5p, mml-miR-18b, mml-miR-190a-3p, mml-miR-190a-5p, mml-miR-190b, mml-miR-191-3p, mml-miR-191-5p, mml-miR-1911-3p, mml-miR-1911-5p, mml-miR-192-3p, mml-miR-192-5p, mml-miR-193a-3p, mml-miR-193a-5p, mml-miR-193b-3p, mml-miR-193b-5p, mml-miR-194-3p, mml-miR-194-5p, mml-miR-195-3p, mml-miR-195-5p, mml-miR-196a-3p, mml-miR-196a-5p, mml-miR-196b-3p, mml-miR-196b-5p, mml-miR-197-3p, mml-miR-197-5p, mml-miR-198, mml-miR-199a, mml-miR-199a-3p, mml-miR-199a-5p, mml-miR-19a-3p, mml-miR-19a-5p, mml-miR-19b, mml-miR-200a-3p, mml-miR-200a-5p, mml-miR-200c-3p, mml-miR-200c-5p, mml-miR-203, mml-miR-204-3p, mml-miR-204-5p, mml-miR-205, mml-miR-206, mml-miR-208a-3p, mml-miR-208a-5p, mml-miR-208b-3p, mml-miR-208b-5p, mml-miR-20a-3p, mml-miR-20a-5p, mml-miR-20b-3p, mml-miR-20b-5p, mml-miR-21-3p, mml-miR-21-5p, mml-miR-210-3p, mml-miR-210-5p, mml-miR-211, mml-miR-2114, mml-miR-212-3p, mml-miR-212-5p, mml-miR-214-3p, mml-miR-214-5p, mml-miR-215-3p, mml-miR-215-5p, mml-miR-216a-3p, mml-miR-216a-5p, mml-miR-216b, mml-miR-217, mml-miR-218-1-3p, mml-miR-218-2-3p, mml-miR-218-5p, mml-miR-219, mml-miR-219-3p, mml-miR-219-5p, mml-miR-22, mml-miR-221-3p, mml-miR-221-5p, mml-miR-222-3p, mml-miR-222-5p, mml-miR-223, mml-miR-224-3p, mml-miR-224-5p, mml-miR-23a-3p, mml-miR-23a-5p, mml-miR-23b-3p, mml-miR-23b-5p, mml-miR-24-3p, mml-miR-24-5p, mml-miR-25, mml-miR-26a-1-3p, mml-miR-26a-2-3p, mml-miR-26a-5p, mml-miR-26b-3p, mml-miR-26b-5p, mml-miR-27a-3p, mml-miR-27a-5p, mml-miR-27b-3p, mml-miR-27b-5p, mml-miR-28-3p, mml-miR-28-5p, mml-miR-296-3p, mml-miR-296-5p,

mml-miR-297, mml-miR-298, mml-miR-299-3p, mml-miR-299-5p, mml-miR-29a-3p, mml-miR-29a-5p, mml-miR-29b-1-5p, mml-miR-29b-2-5p, mml-miR-29b-3p, mml-miR-29c-3p, mml-miR-29c-5p, mml-miR-301a-3p, mml-miR-301a-5p, mml-miR-301b, mml-miR-302a-3p, mml-miR-302a-5p, mml-miR-302b, mml-miR-302c, mml-miR-302d, mml-miR-3059-3p, mml-miR-3059-5p, mml-miR-30a-3p, mml-miR-30a-5p, mml-miR-30b-3p, mml-miR-30b-5p, mml-miR-30c-1-3p, mml-miR-30c-2-3p, mml-miR-30c-5p, mml-miR-30d-3p, mml-miR-30d-5p, mml-miR-30e-3p, mml-miR-30e-5p, mml-miR-31-3p, mml-miR-31-5p, mml-miR-3122, mml-miR-3140, mml-miR-3145-3p, mml-miR-3145-5p, mml-miR-3146, mml-miR-3151, mml-miR-3154, mml-miR-3167-3p, mml-miR-3167-5p, mml-miR-3173, mml-miR-32-3p, mml-miR-32-5p, mml-miR-3200-3p, mml-miR-3200-5p, mml-miR-320a, mml-miR-320b, mml-miR-320c, mml-miR-323a-3p, mml-miR-323a-5p, mml-miR-323b-3p, mml-miR-323b-5p, mml-miR-324-3p, mml-miR-324-5p, mml-miR-325, mml-miR-328, mml-miR-329-1-5p, mml-miR-329-2-5p, mml-miR-329-3p, mml-miR-330-3p, mml-miR-330-5p, mml-miR-331-3p, mml-miR-331-5p, mml-miR-335-3p, mml-miR-335-5p, mml-miR-337-3p, mml-miR-337-5p, mml-miR-338-3p, mml-miR-338-5p, mml-miR-339-3p, mml-miR-339-5p, mml-miR-33a, mml-miR-33b-3p, mml-miR-33b-5p, mml-miR-340-3p, mml-miR-340-5p, mml-miR-342-3p, mml-miR-342-5p, mml-miR-345, mml-miR-346, mml-miR-34a-3p, mml-miR-34a-5p, mml-miR-34b, mml-miR-34c-3p, mml-miR-34c-5p, mml-miR-3577-3p, mml-miR-3577-5p, mml-miR-361-3p, mml-miR-361-5p, mml-miR-362-3p, mml-miR-362-5p, mml-miR-363-3p, mml-miR-363-5p, mml-miR-365-1-5p, mml-miR-365-2-5p, mml-miR-365-3p, mml-miR-367, mml-miR-369-3p, mml-miR-369-5p, mml-miR-370-3p, mml-miR-370-5p, mml-miR-371-3p, mml-miR-371-5p, mml-miR-372-3p, mml-miR-372-5p, mml-miR-373, mml-miR-374a-3p, mml-miR-374a-5p, mml-miR-374b-3p, mml-miR-374b-5p, mml-miR-375, mml-miR-376a-1-5p, mml-miR-376a-2-5p, mml-miR-376a-3p, mml-miR-376b-3p, mml-miR-376b-5p, mml-miR-376c-3p, mml-miR-376c-5p, mml-miR-377-3p, mml-miR-377-5p, mml-miR-378a, mml-miR-378d, mml-miR-378j, mml-miR-379-3p, mml-miR-379-5p, mml-miR-380-3p, mml-miR-380-5p, mml-miR-381-3p, mml-miR-381-5p, mml-miR-382-3p, mml-miR-382-5p, mml-miR-383, mml-miR-384, mml-miR-3927, mml-miR-3938-3p, mml-miR-3938-5p, mml-miR-409-3p, mml-miR-409-5p, mml-miR-410-3p, mml-miR-410-5p, mml-miR-411-3p, mml-miR-411-5p, mml-miR-412-3p, mml-miR-412-5p, mml-miR-421, mml-miR-422a, mml-miR-423-3p, mml-miR-423-5p, mml-miR-424-3p, mml-miR-424-5p, mml-miR-425, mml-miR-429-3p, mml-miR-429-5p, mml-miR-431, mml-miR-432-3p, mml-miR-432-5p, mml-miR-433-3p, mml-miR-433-5p, mml-miR-4446-3p, mml-miR-4446-5p, mml-miR-448, mml-miR-449a-3p, mml-miR-449a-5p, mml-miR-449b-

3p, mml-miR-449b-5p, mml-miR-450a-1-3p, mml-miR-450a-2-3p, mml-miR-450a-5p, mml-miR-450b-3p, mml-miR-450b-5p, mml-miR-451, mml-miR-452-3p, mml-miR-452-5p, mml-miR-4536, mml-miR-454-3p, mml-miR-454-5p, mml-miR-455-3p, mml-miR-455-5p, mml-miR-4650, mml-miR-4667, mml-miR-4677-3p, mml-miR-4677-5p, mml-miR-4703-3p, mml-miR-4703-5p, mml-miR-4716, mml-miR-4743, mml-miR-4766-3p, mml-miR-4766-5p, mml-miR-4796-3p, mml-miR-4796-5p, mml-miR-4803, mml-miR-484, mml-miR-485-3p, mml-miR-485-5p, mml-miR-486-3p, mml-miR-486-5p, mml-miR-487a, mml-miR-487b-3p, mml-miR-487b-5p, mml-miR-488-3p, mml-miR-488-5p, mml-miR-489-3p, mml-miR-489-5p, mml-miR-490-3p, mml-miR-490-5p, mml-miR-491-3p, mml-miR-491-5p, mml-miR-492, mml-miR-493-3p, mml-miR-493-5p, mml-miR-494-3p, mml-miR-494-5p, mml-miR-495-3p, mml-miR-495-5p, mml-miR-496, mml-miR-497-3p, mml-miR-497-5p, mml-miR-498, mml-miR-499-3p, mml-miR-499-5p, mml-miR-500a-3p, mml-miR-500a-5p, mml-miR-500b-3p, mml-miR-500b-5p, mml-miR-501-3p, mml-miR-501-5p, mml-miR-502-3p, mml-miR-502-5p, mml-miR-503-3p, mml-miR-503-5p, mml-miR-504-3p, mml-miR-504-5p, mml-miR-505-3p, mml-miR-505-5p, mml-miR-506-3p, mml-miR-506-5p, mml-miR-507, mml-miR-508-3p, mml-miR-508-5p, mml-miR-509, mml-miR-510-3p, mml-miR-510-5p, mml-miR-511-3p, mml-miR-511-5p, mml-miR-512-3p, mml-miR-512-5p, mml-miR-513a, mml-miR-513b, mml-miR-514a-3p, mml-miR-514a-5p, mml-miR-514b-3p, mml-miR-514b-5p, mml-miR-516a-3p, mml-miR-516a-5p, mml-miR-516b, mml-miR-517a, mml-miR-517b, mml-miR-517c, mml-miR-518a-3p, mml-miR-518a-5p, mml-miR-518b, mml-miR-518c-3p, mml-miR-518c-5p, mml-miR-518d-3p, mml-miR-518d-5p, mml-miR-518e, mml-miR-518f, mml-miR-518g-3p, mml-miR-518g-5p, mml-miR-519a, mml-miR-519a-3p, mml-miR-519a-5p, mml-miR-519b, mml-miR-519c, mml-miR-519d, mml-miR-519e, mml-miR-520a-3p, mml-miR-520a-5p, mml-miR-520g, mml-miR-521, mml-miR-523a, mml-miR-523b, mml-miR-524-3p, mml-miR-524-5p, mml-miR-525, mml-miR-526b, mml-miR-532-3p, mml-miR-532-5p, mml-miR-539, mml-miR-541-3p, mml-miR-541-5p, mml-miR-542-3p, mml-miR-542-5p, mml-miR-543-3p, mml-miR-543-5p, mml-miR-544, mml-miR-545, mml-miR-548a, mml-miR-548b, mml-miR-548c, mml-miR-548d-3p, mml-miR-548d-5p, mml-miR-548e, mml-miR-548f, mml-miR-548g-3p, mml-miR-548g-5p, mml-miR-548h-3p, mml-miR-548h-5p, mml-miR-548i-3p, mml-miR-548i-5p, mml-miR-548j-3p, mml-miR-548j-5p, mml-miR-549a, mml-miR-549b-3p, mml-miR-549b-5p, mml-miR-550-3p, mml-miR-550-5p, mml-miR-551a, mml-miR-551b-3p, mml-miR-551b-5p, mml-miR-552, mml-miR-553, mml-miR-554, mml-miR-556-3p, mml-miR-556-5p, mml-miR-557, mml-miR-558, mml-miR-562, mml-miR-563, mml-miR-567, mml-miR-568, mml-miR-569, mml-miR-5697-3p, mml-miR-

5697-5p, mml-miR-570, mml-miR-571, mml-miR-572, mml-miR-573, mml-miR-574, mml-miR-576-3p, mml-miR-576-5p, mml-miR-577-3p, mml-miR-577-5p, mml-miR-578, mml-miR-579, mml-miR-580, mml-miR-581, mml-miR-582-3p, mml-miR-582-5p, mml-miR-583, mml-miR-584-3p, mml-miR-584-5p, mml-miR-586, mml-miR-587, mml-miR-589, mml-miR-590-3p, mml-miR-590-5p, mml-miR-592-3p, mml-miR-592-5p, mml-miR-593, mml-miR-595, mml-miR-597, mml-miR-598-3p, mml-miR-598-5p, mml-miR-599-3p, mml-miR-599-5p, mml-miR-600, mml-miR-601, mml-miR-603, mml-miR-604, mml-miR-605, mml-miR-607, mml-miR-609, mml-miR-611, mml-miR-612, mml-miR-6127, mml-miR-6128, mml-miR-6129, mml-miR-6130, mml-miR-6131, mml-miR-6132, mml-miR-6133, mml-miR-6134, mml-miR-615-3p, mml-miR-615-5p, mml-miR-616, mml-miR-618, mml-miR-619, mml-miR-622, mml-miR-624, mml-miR-625, mml-miR-626, mml-miR-627-3p, mml-miR-627-5p, mml-miR-628-3p, mml-miR-628-5p, mml-miR-631, mml-miR-632, mml-miR-633, mml-miR-636, mml-miR-638, mml-miR-639, mml-miR-640, mml-miR-642, mml-miR-643, mml-miR-644, mml-miR-648, mml-miR-649, mml-miR-6505-3p, mml-miR-6505-5p, mml-miR-650a, mml-miR-650b, mml-miR-650c, mml-miR-650d, mml-miR-651, mml-miR-652, mml-miR-6529-3p, mml-miR-6529-5p, mml-miR-653-3p, mml-miR-653-5p, mml-miR-654-3p, mml-miR-654-5p, mml-miR-656-3p, mml-miR-656-5p, mml-miR-657, mml-miR-660-3p, mml-miR-660-5p, mml-miR-661, mml-miR-662, mml-miR-663, mml-miR-664, mml-miR-665, mml-miR-668, mml-miR-670-3p, mml-miR-670-5p, mml-miR-671-3p, mml-miR-671-5p, mml-miR-675-3p, mml-miR-675-5p, mml-miR-676-3p, mml-miR-676-5p, mml-miR-6790-3p, mml-miR-6790-5p, mml-miR-6794-3p, mml-miR-6794-5p, mml-miR-6827-3p, mml-miR-6827-5p, mml-miR-7, mml-miR-708-3p, mml-miR-708-5p, mml-miR-711, mml-miR-7163-3p, mml-miR-7163-5p, mml-miR-7164-3p, mml-miR-7164-5p, mml-miR-7165-3p, mml-miR-7165-5p, mml-miR-7166-3p, mml-miR-7166-5p, mml-miR-7167-3p, mml-miR-7167-5p, mml-miR-7168-3p, mml-miR-7168-5p, mml-miR-7169-3p, mml-miR-7169-5p, mml-miR-7170-3p, mml-miR-7170-5p, mml-miR-7171-3p, mml-miR-7171-5p, mml-miR-7172-3p, mml-miR-7172-5p, mml-miR-7173-3p, mml-miR-7173-5p, mml-miR-7174-3p, mml-miR-7174-5p, mml-miR-7175-3p, mml-miR-7175-5p, mml-miR-7176-3p, mml-miR-7176-5p, mml-miR-7177-3p, mml-miR-7177-5p, mml-miR-7178-3p, mml-miR-7178-5p, mml-miR-7179-3p, mml-miR-7179-5p, mml-miR-7180-3p, mml-miR-7180-5p, mml-miR-7181-3p, mml-miR-7181-5p, mml-miR-7182-3p, mml-miR-7182-5p, mml-miR-7183-3p, mml-miR-7183-5p, mml-miR-7184-3p, mml-miR-7184-5p, mml-miR-7185-3p, mml-miR-7185-5p, mml-miR-7186-3p, mml-miR-7186-5p, mml-miR-7187-3p, mml-miR-7187-5p, mml-miR-7188-3p, mml-miR-7188-5p, mml-miR-7189-3p, mml-miR-7189-

5p, mml-miR-7190-3p, mml-miR-7190-5p, mml-miR-7191-3p, mml-miR-7191-5p, mml-miR-7192-3p, mml-miR-7192-5p, mml-miR-7193-3p, mml-miR-7193-5p, mml-miR-7194-3p, mml-miR-7194-5p, mml-miR-7195-3p, mml-miR-7195-5p, mml-miR-7196-3p, mml-miR-7196-5p, mml-miR-7197-3p, mml-miR-7197-5p, mml-miR-7198-3p, mml-miR-7198-5p, mml-miR-7199-3p, mml-miR-7199-5p, mml-miR-7200-3p, mml-miR-7200-5p, mml-miR-7201-3p, mml-miR-7201-5p, mml-miR-7202-3p, mml-miR-7202-5p, mml-miR-7203-3p, mml-miR-7203-5p, mml-miR-7204-3p, mml-miR-7204-5p, mml-miR-7205-3p, mml-miR-7205-5p, mml-miR-7206-3p, mml-miR-7206-5p, mml-miR-7207-3p, mml-miR-7207-5p, mml-miR-7208-3p, mml-miR-7208-5p, mml-miR-758-3p, mml-miR-758-5p, mml-miR-759, mml-miR-760, mml-miR-761, mml-miR-762, mml-miR-764, mml-miR-765, mml-miR-767-3p, mml-miR-767-5p, mml-miR-769-3p, mml-miR-769-5p, mml-miR-770-5p, mml-miR-802, mml-miR-873-3p, mml-miR-873-5p, mml-miR-874-3p, mml-miR-874-5p, mml-miR-875-3p, mml-miR-875-5p, mml-miR-876-3p, mml-miR-876-5p, mml-miR-877-3p, mml-miR-877-5p, mml-miR-885-3p, mml-miR-885-5p, mml-miR-887, mml-miR-888, mml-miR-889-3p, mml-miR-889-5p, mml-miR-890-3p, mml-miR-890-5p, mml-miR-891a, mml-miR-891b-3p, mml-miR-891b-5p, mml-miR-892a, mml-miR-892b, mml-miR-892c-3p, mml-miR-892c-5p, mml-miR-9-3-3p, mml-miR-9-3p, mml-miR-9-5p, mml-miR-920, mml-miR-922, mml-miR-924, mml-miR-92a-3p, mml-miR-92a-5p, mml-miR-92b-3p, mml-miR-92b-5p, mml-miR-93-3p, mml-miR-93-5p, mml-miR-933, mml-miR-934-3p, mml-miR-934-5p, mml-miR-936, mml-miR-937, mml-miR-938, mml-miR-939, mml-miR-940, mml-miR-942-3p, mml-miR-942-5p, mml-miR-944, mml-miR-95-3p, mml-miR-95-5p, mml-miR-96, mml-miR-98, mml-miR-99a-3p, mml-miR-99a-5p, mml-miR-99b-3p, mml-miR-99b-5p, mmr-let-7a, mmr-let-7b, mmr-let-7c, mmr-let-7f, mmr-let-7g, mmr-miR-10, mmr-miR-100, mmr-miR-101, mmr-miR-103a, mmr-miR-103b, mmr-miR-107, mmr-miR-10a, mmr-miR-125a, mmr-miR-126, mmr-miR-128, mmr-miR-1307, mmr-miR-130a, mmr-miR-132, mmr-miR-136, mmr-miR-138, mmr-miR-1388, mmr-miR-140, mmr-miR-145, mmr-miR-146a, mmr-miR-146b, mmr-miR-148b, mmr-miR-151, mmr-miR-152, mmr-miR-15a, mmr-miR-17, mmr-miR-18, mmr-miR-181a, mmr-miR-182, mmr-miR-1839, mmr-miR-186, mmr-miR-187, mmr-miR-188, mmr-miR-191, mmr-miR-193, mmr-miR-195, mmr-miR-196b, mmr-miR-197, mmr-miR-199, mmr-miR-19b, mmr-miR-20, mmr-miR-204, mmr-miR-21, mmr-miR-211, mmr-miR-212, mmr-miR-214, mmr-miR-218a, mmr-miR-218b, mmr-miR-22, mmr-miR-221, mmr-miR-222, mmr-miR-23b, mmr-miR-24, mmr-miR-26a, mmr-miR-26b, mmr-miR-27b, mmr-miR-28, mmr-miR-296, mmr-miR-29a, mmr-miR-29b, mmr-miR-29c, mmr-miR-301a, mmr-miR-30a, mmr-miR-30c, mmr-miR-30e, mmr-miR-31, mmr-miR-

320a, mmr-miR-324, mmr-miR-328, mmr-miR-340, mmr-miR-342, mmr-miR-345, mmr-miR-34a, mmr-miR-34b, mmr-miR-34c, mmr-miR-361, mmr-miR-365, mmr-miR-374a, mmr-miR-381, mmr-miR-3959, mmr-miR-409, mmr-miR-410, mmr-miR-411a, mmr-miR-411b, mmr-miR-424, mmr-miR-425, mmr-miR-455, mmr-miR-484, mmr-miR-486, mmr-miR-497, mmr-miR-500, mmr-miR-502a, mmr-miR-502b, mmr-miR-532, mmr-miR-542, mmr-miR-590, mmr-miR-615, mmr-miR-6313, mmr-miR-660, mmr-miR-708, mmr-miR-872, mmr-miR-92a, mmr-miR-92b, mmr-miR-98, mmr-miR-99a, mmu-let-7a-1-3p, mmu-let-7a-2-3p, mmu-let-7a-5p, mmu-let-7b-3p, mmu-let-7b-5p, mmu-let-7c-1-3p, mmu-let-7c-2-3p, mmu-let-7c-5p, mmu-let-7d-3p, mmu-let-7d-5p, mmu-let-7e-3p, mmu-let-7e-5p, mmu-let-7f-1-3p, mmu-let-7f-2-3p, mmu-let-7f-5p, mmu-let-7g-3p, mmu-let-7g-5p, mmu-let-7i-3p, mmu-let-7i-5p, mmu-let-7j, mmu-let-7k, mmu-miR-100-3p, mmu-miR-100-5p, mmu-miR-101a-3p, mmu-miR-101a-5p, mmu-miR-101b-3p, mmu-miR-101b-5p, mmu-miR-101c, mmu-miR-103-1-5p, mmu-miR-103-2-5p, mmu-miR-103-3p, mmu-miR-105, mmu-miR-106a-3p, mmu-miR-106a-5p, mmu-miR-106b-3p, mmu-miR-106b-5p, mmu-miR-107-3p, mmu-miR-107-5p, mmu-miR-10a-3p, mmu-miR-10a-5p, mmu-miR-10b-3p, mmu-miR-10b-5p, mmu-miR-1187, mmu-miR-1188-3p, mmu-miR-1188-5p, mmu-miR-1190, mmu-miR-1191a, mmu-miR-1191b-3p, mmu-miR-1191b-5p, mmu-miR-1192, mmu-miR-1193-3p, mmu-miR-1193-5p, mmu-miR-1194, mmu-miR-1195, mmu-miR-1197-3p, mmu-miR-1197-5p, mmu-miR-1198-3p, mmu-miR-1198-5p, mmu-miR-1199-3p, mmu-miR-1199-5p, mmu-miR-12178-3p, mmu-miR-12178-5p, mmu-miR-12179-5p, mmu-miR-12180-3p, mmu-miR-12181-3p, mmu-miR-12181-5p, mmu-miR-12182-3p, mmu-miR-12182-5p, mmu-miR-12183-5p, mmu-miR-12184-3p, mmu-miR-12184-5p, mmu-miR-12185-3p, mmu-miR-12185-5p, mmu-miR-12186-3p, mmu-miR-12186-5p, mmu-miR-12187-3p, mmu-miR-12187-5p, mmu-miR-12188-3p, mmu-miR-12188-5p, mmu-miR-12189-3p, mmu-miR-12190-3p, mmu-miR-12191-3p, mmu-miR-12191-5p, mmu-miR-12192-5p, mmu-miR-12193-3p, mmu-miR-12193-5p, mmu-miR-12194-3p, mmu-miR-12195-3p, mmu-miR-12195-5p, mmu-miR-12196-3p, mmu-miR-12196-5p, mmu-miR-12197-3p, mmu-miR-12198-3p, mmu-miR-12199-3p, mmu-miR-122-3p, mmu-miR-122-5p, mmu-miR-12200-3p, mmu-miR-12200-5p, mmu-miR-12201-3p, mmu-miR-12201-5p, mmu-miR-12202-3p, mmu-miR-12202-5p, mmu-miR-12203-3p, mmu-miR-12203-5p, mmu-miR-12204-5p, mmu-miR-12205-3p, mmu-miR-12205-5p, mmu-miR-12206-5p, mmu-miR-1224-3p, mmu-miR-1224-5p, mmu-miR-122b-3p, mmu-miR-122b-5p, mmu-miR-1231-3p, mmu-miR-1231-5p, mmu-miR-124-3p, mmu-miR-124-5p, mmu-miR-1247-3p, mmu-miR-1247-5p, mmu-miR-1249-3p, mmu-miR-1249-5p, mmu-miR-124b-3p, mmu-miR-1251-3p, mmu-miR-1251-5p, mmu-

miR-1258-3p, mmu-miR-1258-5p, mmu-miR-125a-3p, mmu-miR-125a-5p, mmu-miR-125b-1-3p, mmu-miR-125b-2-3p, mmu-miR-125b-5p, mmu-miR-1264-3p, mmu-miR-1264-5p, mmu-miR-126a-3p, mmu-miR-126a-5p, mmu-miR-126b-3p, mmu-miR-126b-5p, mmu-miR-127-3p, mmu-miR-127-5p, mmu-miR-1271-3p, mmu-miR-1271-5p, mmu-miR-128-1-5p, mmu-miR-128-2-5p, mmu-miR-128-3p, mmu-miR-129-1-3p, mmu-miR-129-2-3p, mmu-miR-129-5p, mmu-miR-1291, mmu-miR-1298-3p, mmu-miR-1298-5p, mmu-miR-129b-3p, mmu-miR-129b-5p, mmu-miR-1306-3p, mmu-miR-1306-5p, mmu-miR-130a-3p, mmu-miR-130a-5p, mmu-miR-130b-3p, mmu-miR-130b-5p, mmu-miR-130c, mmu-miR-132-3p, mmu-miR-132-5p, mmu-miR-133a-3p, mmu-miR-133a-5p, mmu-miR-133b-3p, mmu-miR-133b-5p, mmu-miR-133c, mmu-miR-134-3p, mmu-miR-134-5p, mmu-miR-135a-1-3p, mmu-miR-135a-2-3p, mmu-miR-135a-5p, mmu-miR-135b-3p, mmu-miR-135b-5p, mmu-miR-136-3p, mmu-miR-136-5p, mmu-miR-137-3p, mmu-miR-137-5p, mmu-miR-138-1-3p, mmu-miR-138-2-3p, mmu-miR-138-5p, mmu-miR-139-3p, mmu-miR-139-5p, mmu-miR-140-3p, mmu-miR-140-5p, mmu-miR-141-3p, mmu-miR-141-5p, mmu-miR-142a-3p, mmu-miR-142a-5p, mmu-miR-142b, mmu-miR-143-3p, mmu-miR-143-5p, mmu-miR-144-3p, mmu-miR-144-5p, mmu-miR-145a-3p, mmu-miR-145a-5p, mmu-miR-145b, mmu-miR-146a-3p, mmu-miR-146a-5p, mmu-miR-146b-3p, mmu-miR-146b-5p, mmu-miR-147-3p, mmu-miR-147-5p, mmu-miR-148a-3p, mmu-miR-148a-5p, mmu-miR-148b-3p, mmu-miR-148b-5p, mmu-miR-149-3p, mmu-miR-149-5p, mmu-miR-150-3p, mmu-miR-150-5p, mmu-miR-151-3p, mmu-miR-151-5p, mmu-miR-152-3p, mmu-miR-152-5p, mmu-miR-153-3p, mmu-miR-153-5p, mmu-miR-154-3p, mmu-miR-154-5p, mmu-miR-155-3p, mmu-miR-155-5p, mmu-miR-15a-3p, mmu-miR-15a-5p, mmu-miR-15b-3p, mmu-miR-15b-5p, mmu-miR-16-1-3p, mmu-miR-16-2-3p, mmu-miR-16-5p, mmu-miR-1668, mmu-miR-17-3p, mmu-miR-17-5p, mmu-miR-181a-1-3p, mmu-miR-181a-2-3p, mmu-miR-181a-5p, mmu-miR-181b-1-3p, mmu-miR-181b-2-3p, mmu-miR-181b-5p, mmu-miR-181c-3p, mmu-miR-181c-5p, mmu-miR-181d-3p, mmu-miR-181d-5p, mmu-miR-182-3p, mmu-miR-182-5p, mmu-miR-183-3p, mmu-miR-183-5p, mmu-miR-1839-3p, mmu-miR-1839-5p, mmu-miR-184-3p, mmu-miR-184-5p, mmu-miR-1843a-3p, mmu-miR-1843a-5p, mmu-miR-1843b-3p, mmu-miR-1843b-5p, mmu-miR-185-3p, mmu-miR-185-5p, mmu-miR-186-3p, mmu-miR-186-5p, mmu-miR-187-3p, mmu-miR-187-5p, mmu-miR-188-3p, mmu-miR-188-5p, mmu-miR-1892, mmu-miR-1893, mmu-miR-1894-3p, mmu-miR-1894-5p, mmu-miR-1895, mmu-miR-1896, mmu-miR-1897-3p, mmu-miR-1897-5p, mmu-miR-1898, mmu-miR-1899, mmu-miR-18a-3p, mmu-miR-18a-5p, mmu-miR-18b-3p, mmu-miR-18b-5p, mmu-miR-1900, mmu-miR-1901, mmu-miR-1902, mmu-miR-1903, mmu-miR-1904, mmu-miR-1905, mmu-miR-1906, mmu-

miR-1907, mmu-miR-190a-3p, mmu-miR-190a-5p, mmu-miR-190b-3p, mmu-miR-190b-5p, mmu-miR-191-3p, mmu-miR-191-5p, mmu-miR-1911-3p, mmu-miR-1911-5p, mmu-miR-1912-3p, mmu-miR-1912-5p, mmu-miR-192-3p, mmu-miR-192-5p, mmu-miR-1927, mmu-miR-1928, mmu-miR-1929-3p, mmu-miR-1929-5p, mmu-miR-1930-3p, mmu-miR-1930-5p, mmu-miR-1931, mmu-miR-1932, mmu-miR-1933-3p, mmu-miR-1933-5p, mmu-miR-1934-3p, mmu-miR-1934-5p, mmu-miR-1936, mmu-miR-1938, mmu-miR-193a-3p, mmu-miR-193a-5p, mmu-miR-193b-3p, mmu-miR-193b-5p, mmu-miR-194-1-3p, mmu-miR-194-2-3p, mmu-miR-194-5p, mmu-miR-1941-3p, mmu-miR-1941-5p, mmu-miR-1942, mmu-miR-1943-3p, mmu-miR-1943-5p, mmu-miR-1945, mmu-miR-1946a, mmu-miR-1946b, mmu-miR-1947-3p, mmu-miR-1947-5p, mmu-miR-1948-3p, mmu-miR-1948-5p, mmu-miR-1949, mmu-miR-1950, mmu-miR-1951, mmu-miR-1952, mmu-miR-1953, mmu-miR-1954, mmu-miR-1955-3p, mmu-miR-1955-5p, mmu-miR-1956, mmu-miR-1958, mmu-miR-195a-3p, mmu-miR-195a-5p, mmu-miR-195b, mmu-miR-1960, mmu-miR-1961, mmu-miR-1962, mmu-miR-1963, mmu-miR-1964-3p, mmu-miR-1964-5p, mmu-miR-1966-3p, mmu-miR-1966-5p, mmu-miR-1967, mmu-miR-1968-3p, mmu-miR-1968-5p, mmu-miR-1969, mmu-miR-196a-1-3p, mmu-miR-196a-2-3p, mmu-miR-196a-5p, mmu-miR-196b-3p, mmu-miR-196b-5p, mmu-miR-1970, mmu-miR-1970b-5p, mmu-miR-1970c-3p, mmu-miR-1970c-5p, mmu-miR-1971, mmu-miR-1981-3p, mmu-miR-1981-5p, mmu-miR-1982-3p, mmu-miR-1982-5p, mmu-miR-1983, mmu-miR-199a-3p, mmu-miR-199a-5p, mmu-miR-199b-3p, mmu-miR-199b-5p, mmu-miR-19a-3p, mmu-miR-19a-5p, mmu-miR-19b-1-5p, mmu-miR-19b-2-5p, mmu-miR-19b-3p, mmu-miR-1a-1-5p, mmu-miR-1a-2-5p, mmu-miR-1a-3p, mmu-miR-1b-3p, mmu-miR-1b-5p, mmu-miR-200a-3p, mmu-miR-200a-5p, mmu-miR-200b-3p, mmu-miR-200b-5p, mmu-miR-200c-3p, mmu-miR-200c-5p, mmu-miR-201-3p, mmu-miR-201-5p, mmu-miR-202-3p, mmu-miR-202-5p, mmu-miR-203-3p, mmu-miR-203-5p, mmu-miR-203b-3p, mmu-miR-203b-5p, mmu-miR-204-3p, mmu-miR-204-5p, mmu-miR-205-3p, mmu-miR-205-5p, mmu-miR-206-3p, mmu-miR-206-5p, mmu-miR-207, mmu-miR-208a-3p, mmu-miR-208a-5p, mmu-miR-208b-3p, mmu-miR-208b-5p, mmu-miR-20a-3p, mmu-miR-20a-5p, mmu-miR-20b-3p, mmu-miR-20b-5p, mmu-miR-210-3p, mmu-miR-210-5p, mmu-miR-211-3p, mmu-miR-211-5p, mmu-miR-212-3p, mmu-miR-212-5p, mmu-miR-2136, mmu-miR-2137, mmu-miR-2139, mmu-miR-214-3p, mmu-miR-214-5p, mmu-miR-215-3p, mmu-miR-215-5p, mmu-miR-216a-3p, mmu-miR-216a-5p, mmu-miR-216b-3p, mmu-miR-216b-5p, mmu-miR-216c-3p, mmu-miR-216c-5p, mmu-miR-217-3p, mmu-miR-217-5p, mmu-miR-218-1-3p, mmu-miR-218-2-3p, mmu-miR-218-5p, mmu-miR-2183, mmu-miR-219a-1-3p, mmu-miR-219a-2-3p, mmu-miR-219a-5p, mmu-miR-219b-3p, mmu-

miR-219b-5p, mmu-miR-219c-3p, mmu-miR-219c-5p, mmu-miR-21a-3p, mmu-miR-21a-5p, mmu-miR-21b, mmu-miR-21c, mmu-miR-22-3p, mmu-miR-22-5p, mmu-miR-221-3p, mmu-miR-221-5p, mmu-miR-222-3p, mmu-miR-222-5p, mmu-miR-223-3p, mmu-miR-223-5p, mmu-miR-224-3p, mmu-miR-224-5p, mmu-miR-23a-3p, mmu-miR-23a-5p, mmu-miR-23b-3p, mmu-miR-23b-5p, mmu-miR-24-1-5p, mmu-miR-24-2-5p, mmu-miR-24-3p, mmu-miR-25-3p, mmu-miR-25-5p, mmu-miR-26a-1-3p, mmu-miR-26a-2-3p, mmu-miR-26a-5p, mmu-miR-26b-3p, mmu-miR-26b-5p, mmu-miR-27a-3p, mmu-miR-27a-5p, mmu-miR-27b-3p, mmu-miR-27b-5p, mmu-miR-2861, mmu-miR-28a-3p, mmu-miR-28a-5p, mmu-miR-28b, mmu-miR-28c, mmu-miR-290a-3p, mmu-miR-290a-5p, mmu-miR-290b-3p, mmu-miR-290b-5p, mmu-miR-291a-3p, mmu-miR-291a-5p, mmu-miR-291b-3p, mmu-miR-291b-5p, mmu-miR-292a-3p, mmu-miR-292a-5p, mmu-miR-292b-3p, mmu-miR-292b-5p, mmu-miR-293-3p, mmu-miR-293-5p, mmu-miR-294-3p, mmu-miR-294-5p, mmu-miR-295-3p, mmu-miR-295-5p, mmu-miR-296-3p, mmu-miR-296-5p, mmu-miR-297a-3p, mmu-miR-297a-5p, mmu-miR-297b-3p, mmu-miR-297b-5p, mmu-miR-297c-3p, mmu-miR-297c-5p, mmu-miR-298-3p, mmu-miR-298-5p, mmu-miR-299a-3p, mmu-miR-299a-5p, mmu-miR-299b-3p, mmu-miR-299b-5p, mmu-miR-29a-3p, mmu-miR-29a-5p, mmu-miR-29b-1-5p, mmu-miR-29b-2-5p, mmu-miR-29b-3p, mmu-miR-29c-3p, mmu-miR-29c-5p, mmu-miR-300-3p, mmu-miR-300-5p, mmu-miR-301a-3p, mmu-miR-301a-5p, mmu-miR-301b-3p, mmu-miR-301b-5p, mmu-miR-302a-3p, mmu-miR-302a-5p, mmu-miR-302b-3p, mmu-miR-302b-5p, mmu-miR-302c-3p, mmu-miR-302c-5p, mmu-miR-302d-3p, mmu-miR-302d-5p, mmu-miR-3057-3p, mmu-miR-3057-5p, mmu-miR-3058-3p, mmu-miR-3058-5p, mmu-miR-3059-3p, mmu-miR-3059-5p, mmu-miR-3060-3p, mmu-miR-3060-5p, mmu-miR-3061-3p, mmu-miR-3061-5p, mmu-miR-3062-3p, mmu-miR-3062-5p, mmu-miR-3063-3p, mmu-miR-3063-5p, mmu-miR-3064-3p, mmu-miR-3064-5p, mmu-miR-3065-3p, mmu-miR-3065-5p, mmu-miR-3066-3p, mmu-miR-3066-5p, mmu-miR-3067-3p, mmu-miR-3067-5p, mmu-miR-3068-3p, mmu-miR-3068-5p, mmu-miR-3069-3p, mmu-miR-3069-5p, mmu-miR-3070-2-3p, mmu-miR-3070-3p, mmu-miR-3070-5p, mmu-miR-3071-3p, mmu-miR-3071-5p, mmu-miR-3072-3p, mmu-miR-3072-5p, mmu-miR-3073a-3p, mmu-miR-3073a-5p, mmu-miR-3073b-3p, mmu-miR-3073b-5p, mmu-miR-3074-1-3p, mmu-miR-3074-2-3p, mmu-miR-3074-5p, mmu-miR-3075-3p, mmu-miR-3075-5p, mmu-miR-3076-3p, mmu-miR-3076-5p, mmu-miR-3077-3p, mmu-miR-3077-5p, mmu-miR-3078-3p, mmu-miR-3078-5p, mmu-miR-3079-3p, mmu-miR-3079-5p, mmu-miR-3080-3p, mmu-miR-3080-5p, mmu-miR-3081-3p, mmu-miR-3081-5p, mmu-miR-3082-3p, mmu-miR-3082-5p, mmu-miR-3083-3p, mmu-miR-3083-5p, mmu-miR-3083b-3p, mmu-miR-3083b-5p, mmu-miR-3084-3p, mmu-miR-3084-5p, mmu-miR-3085-

3p, mmu-miR-3085-5p, mmu-miR-3086-3p, mmu-miR-3086-5p, mmu-miR-3087-3p, mmu-miR-3087-5p, mmu-miR-3088-3p, mmu-miR-3088-5p, mmu-miR-3089-3p, mmu-miR-3089-5p, mmu-miR-3090-3p, mmu-miR-3090-5p, mmu-miR-3091-3p, mmu-miR-3091-5p, mmu-miR-3092-3p, mmu-miR-3092-5p, mmu-miR-3093-3p, mmu-miR-3093-5p, mmu-miR-3094-3p, mmu-miR-3094-5p, mmu-miR-3095-3p, mmu-miR-3095-5p, mmu-miR-3097-3p, mmu-miR-3097-5p, mmu-miR-3098-3p, mmu-miR-3098-5p, mmu-miR-3099-3p, mmu-miR-3099-5p, mmu-miR-30a-3p, mmu-miR-30a-5p, mmu-miR-30b-3p, mmu-miR-30b-5p, mmu-miR-30c-1-3p, mmu-miR-30c-2-3p, mmu-miR-30c-5p, mmu-miR-30d-3p, mmu-miR-30d-5p, mmu-miR-30e-3p, mmu-miR-30e-5p, mmu-miR-30f, mmu-miR-31-3p, mmu-miR-31-5p, mmu-miR-3100-3p, mmu-miR-3100-5p, mmu-miR-3101-3p, mmu-miR-3101-5p, mmu-miR-3102-3p, mmu-miR-3102-3p.2-3p, mmu-miR-3102-5p, mmu-miR-3102-5p.2-5p, mmu-miR-3103-3p, mmu-miR-3103-5p, mmu-miR-3104-3p, mmu-miR-3104-5p, mmu-miR-3105-3p, mmu-miR-3105-5p, mmu-miR-3106-3p, mmu-miR-3106-5p, mmu-miR-3108-3p, mmu-miR-3108-5p, mmu-miR-3109-3p, mmu-miR-3109-5p, mmu-miR-3110-3p, mmu-miR-3110-5p, mmu-miR-3112-3p, mmu-miR-3112-5p, mmu-miR-3113-3p, mmu-miR-3113-5p, mmu-miR-3154, mmu-miR-32-3p, mmu-miR-32-5p, mmu-miR-320-3p, mmu-miR-320-5p, mmu-miR-322-3p, mmu-miR-322-5p, mmu-miR-323-3p, mmu-miR-323-5p, mmu-miR-324-3p, mmu-miR-324-5p, mmu-miR-325-3p, mmu-miR-325-5p, mmu-miR-326-3p, mmu-miR-326-5p, mmu-miR-327, mmu-miR-328-3p, mmu-miR-328-5p, mmu-miR-329-3p, mmu-miR-329-5p, mmu-miR-33-3p, mmu-miR-33-5p, mmu-miR-330-3p, mmu-miR-330-5p, mmu-miR-331-3p, mmu-miR-331-5p, mmu-miR-335-3p, mmu-miR-335-5p, mmu-miR-337-3p, mmu-miR-337-5p, mmu-miR-338-3p, mmu-miR-338-5p, mmu-miR-339-3p, mmu-miR-339-5p, mmu-miR-340-3p, mmu-miR-340-5p, mmu-miR-341-3p, mmu-miR-341-5p, mmu-miR-342-3p, mmu-miR-342-5p, mmu-miR-343, mmu-miR-344-3p, mmu-miR-344-5p, mmu-miR-344b-3p, mmu-miR-344b-5p, mmu-miR-344c-3p, mmu-miR-344c-5p, mmu-miR-344d-1-5p, mmu-miR-344d-2-5p, mmu-miR-344d-3-5p, mmu-miR-344d-3p, mmu-miR-344e-3p, mmu-miR-344e-5p, mmu-miR-344f-3p, mmu-miR-344f-5p, mmu-miR-344g-3p, mmu-miR-344g-5p, mmu-miR-344h-3p, mmu-miR-344h-5p, mmu-miR-344i, mmu-miR-345-3p, mmu-miR-345-5p, mmu-miR-346-3p, mmu-miR-346-5p, mmu-miR-3470a, mmu-miR-3470b, mmu-miR-3471, mmu-miR-3472, mmu-miR-3473a, mmu-miR-3473b, mmu-miR-3473c, mmu-miR-3473d, mmu-miR-3473e, mmu-miR-3473f, mmu-miR-3473g, mmu-miR-3473h-5p, mmu-miR-3474, mmu-miR-3475-3p, mmu-miR-3475-5p, mmu-miR-34a-3p, mmu-miR-34a-5p, mmu-miR-34b-3p, mmu-miR-34b-5p, mmu-miR-34c-3p, mmu-miR-34c-5p, mmu-miR-350-3p, mmu-miR-350-5p, mmu-miR-351-3p, mmu-miR-351-5p, mmu-miR-3535, mmu-

miR-3544-3p, mmu-miR-3544-5p, mmu-miR-3547-3p, mmu-miR-3547-5p, mmu-miR-3552, mmu-miR-3569-3p, mmu-miR-3569-5p, mmu-miR-3572-3p, mmu-miR-3572-5p, mmu-miR-361-3p, mmu-miR-361-5p, mmu-miR-3618-3p, mmu-miR-3618-5p, mmu-miR-362-3p, mmu-miR-362-5p, mmu-miR-3620-3p, mmu-miR-3620-5p, mmu-miR-363-3p, mmu-miR-363-5p, mmu-miR-365-1-5p, mmu-miR-365-2-5p, mmu-miR-365-3p, mmu-miR-367-3p, mmu-miR-367-5p, mmu-miR-369-3p, mmu-miR-369-5p, mmu-miR-370-3p, mmu-miR-370-5p, mmu-miR-374b-3p, mmu-miR-374b-5p, mmu-miR-374c-3p, mmu-miR-374c-5p, mmu-miR-375-3p, mmu-miR-375-5p, mmu-miR-376a-3p, mmu-miR-376a-5p, mmu-miR-376b-3p, mmu-miR-376b-5p, mmu-miR-376c-3p, mmu-miR-376c-5p, mmu-miR-377-3p, mmu-miR-377-5p, mmu-miR-378a-3p, mmu-miR-378a-5p, mmu-miR-378b, mmu-miR-378c, mmu-miR-378d, mmu-miR-379-3p, mmu-miR-379-5p, mmu-miR-380-3p, mmu-miR-380-5p, mmu-miR-381-3p, mmu-miR-381-5p, mmu-miR-382-3p, mmu-miR-382-5p, mmu-miR-383-3p, mmu-miR-383-5p, mmu-miR-384-3p, mmu-miR-384-5p, mmu-miR-3960, mmu-miR-3961, mmu-miR-3962, mmu-miR-3963, mmu-miR-3964, mmu-miR-3965, mmu-miR-3966, mmu-miR-3967, mmu-miR-3968, mmu-miR-3969, mmu-miR-3970, mmu-miR-3971, mmu-miR-409-3p, mmu-miR-409-5p, mmu-miR-410-3p, mmu-miR-410-5p, mmu-miR-411-3p, mmu-miR-411-5p, mmu-miR-412-3p, mmu-miR-412-5p, mmu-miR-421-3p, mmu-miR-421-5p, mmu-miR-423-3p, mmu-miR-423-5p, mmu-miR-425-3p, mmu-miR-425-5p, mmu-miR-429-3p, mmu-miR-429-5p, mmu-miR-431-3p, mmu-miR-431-5p, mmu-miR-432, mmu-miR-433-3p, mmu-miR-433-5p, mmu-miR-434-3p, mmu-miR-434-5p, mmu-miR-448-3p, mmu-miR-448-5p, mmu-miR-449a-3p, mmu-miR-449a-5p, mmu-miR-449b, mmu-miR-449c-3p, mmu-miR-449c-5p, mmu-miR-450a-1-3p, mmu-miR-450a-2-3p, mmu-miR-450a-5p, mmu-miR-450b-3p, mmu-miR-450b-5p, mmu-miR-451a, mmu-miR-451b, mmu-miR-452-3p, mmu-miR-452-5p, mmu-miR-453, mmu-miR-455-3p, mmu-miR-455-5p, mmu-miR-463-3p, mmu-miR-463-5p, mmu-miR-465a-3p, mmu-miR-465a-5p, mmu-miR-465b-3p, mmu-miR-465b-5p, mmu-miR-465c-3p, mmu-miR-465c-5p, mmu-miR-465d-3p, mmu-miR-465d-5p, mmu-miR-466a-3p, mmu-miR-466a-5p, mmu-miR-466b-3p, mmu-miR-466b-5p, mmu-miR-466c-3p, mmu-miR-466c-5p, mmu-miR-466d-3p, mmu-miR-466d-5p, mmu-miR-466e-3p, mmu-miR-466e-5p, mmu-miR-466f, mmu-miR-466f-3p, mmu-miR-466f-5p, mmu-miR-466g, mmu-miR-466h-3p, mmu-miR-466h-5p, mmu-miR-466i-3p, mmu-miR-466i-5p, mmu-miR-466j, mmu-miR-466k, mmu-miR-466l-3p, mmu-miR-466l-5p, mmu-miR-466m-3p, mmu-miR-466m-5p, mmu-miR-466n-3p, mmu-miR-466n-5p, mmu-miR-466o-3p, mmu-miR-466o-5p, mmu-miR-466p-3p, mmu-miR-466p-5p, mmu-miR-466q, mmu-miR-467a-3p, mmu-miR-467a-5p, mmu-miR-467b-3p, mmu-miR-467b-5p, mmu-miR-467c-3p, mmu-miR-

467c-5p, mmu-miR-467d-3p, mmu-miR-467d-5p, mmu-miR-467e-3p, mmu-miR-467e-5p, mmu-miR-467f, mmu-miR-467g, mmu-miR-467h, mmu-miR-468-3p, mmu-miR-468-5p, mmu-miR-470-3p, mmu-miR-470-5p, mmu-miR-471-3p, mmu-miR-471-5p, mmu-miR-483-3p, mmu-miR-483-5p, mmu-miR-484, mmu-miR-485-3p, mmu-miR-485-5p, mmu-miR-486a-3p, mmu-miR-486a-5p, mmu-miR-486b-3p, mmu-miR-486b-5p, mmu-miR-487b-3p, mmu-miR-487b-5p, mmu-miR-488-3p, mmu-miR-488-5p, mmu-miR-489-3p, mmu-miR-489-5p, mmu-miR-490-3p, mmu-miR-490-5p, mmu-miR-491-3p, mmu-miR-491-5p, mmu-miR-493-3p, mmu-miR-493-5p, mmu-miR-494-3p, mmu-miR-494-5p, mmu-miR-495-3p, mmu-miR-495-5p, mmu-miR-496a-3p, mmu-miR-496a-5p, mmu-miR-496b, mmu-miR-497a-3p, mmu-miR-497a-5p, mmu-miR-497b, mmu-miR-499-3p, mmu-miR-499-5p, mmu-miR-500-3p, mmu-miR-500-5p, mmu-miR-501-3p, mmu-miR-501-5p, mmu-miR-503-3p, mmu-miR-503-5p, mmu-miR-504-3p, mmu-miR-504-5p, mmu-miR-5046, mmu-miR-505-3p, mmu-miR-505-5p, mmu-miR-509-3p, mmu-miR-509-5p, mmu-miR-5098, mmu-miR-5099, mmu-miR-5100, mmu-miR-5101, mmu-miR-5103, mmu-miR-5104, mmu-miR-5104b-5p, mmu-miR-5106, mmu-miR-5107-3p, mmu-miR-5107-5p, mmu-miR-5108, mmu-miR-511-3p, mmu-miR-511-5p, mmu-miR-5110, mmu-miR-5112, mmu-miR-5113, mmu-miR-5114, mmu-miR-5116, mmu-miR-5118, mmu-miR-5119, mmu-miR-5120, mmu-miR-5121, mmu-miR-5122, mmu-miR-5123, mmu-miR-5124a, mmu-miR-5124b, mmu-miR-5125, mmu-miR-5126, mmu-miR-5127, mmu-miR-5128, mmu-miR-5129-3p, mmu-miR-5129-5p, mmu-miR-5130, mmu-miR-5131, mmu-miR-5132-3p, mmu-miR-5132-5p, mmu-miR-5133, mmu-miR-5134-3p, mmu-miR-5134-5p, mmu-miR-5135, mmu-miR-5136, mmu-miR-532-3p, mmu-miR-532-5p, mmu-miR-539-3p, mmu-miR-539-5p, mmu-miR-540-3p, mmu-miR-540-5p, mmu-miR-541-3p, mmu-miR-541-5p, mmu-miR-542-3p, mmu-miR-542-5p, mmu-miR-543-3p, mmu-miR-543-5p, mmu-miR-544-3p, mmu-miR-544-5p, mmu-miR-546, mmu-miR-547-3p, mmu-miR-547-5p, mmu-miR-551b-3p, mmu-miR-551b-5p, mmu-miR-5615-3p, mmu-miR-5615-5p, mmu-miR-5616-3p, mmu-miR-5616-5p, mmu-miR-5617-3p, mmu-miR-5617-5p, mmu-miR-5618-3p, mmu-miR-5618-5p, mmu-miR-5619-3p, mmu-miR-5619-5p, mmu-miR-5620-3p, mmu-miR-5620-5p, mmu-miR-5621-3p, mmu-miR-5621-5p, mmu-miR-5622-3p, mmu-miR-5622-5p, mmu-miR-5623-3p, mmu-miR-5623-5p, mmu-miR-5624-3p, mmu-miR-5624-5p, mmu-miR-5625-3p, mmu-miR-5625-5p, mmu-miR-5626-3p, mmu-miR-5626-5p, mmu-miR-5627-3p, mmu-miR-5627-5p, mmu-miR-568, mmu-miR-5709-3p, mmu-miR-5709-5p, mmu-miR-5710, mmu-miR-574-3p, mmu-miR-574-5p, mmu-miR-582-3p, mmu-miR-582-5p, mmu-miR-590-3p, mmu-miR-590-5p, mmu-miR-592-3p, mmu-miR-592-5p, mmu-miR-598-3p, mmu-miR-598-5p, mmu-miR-599, mmu-miR-615-3p, mmu-miR-

615-5p, mmu-miR-6236, mmu-miR-6237, mmu-miR-6238, mmu-miR-6239, mmu-miR-6240, mmu-miR-6241, mmu-miR-6244, mmu-miR-6335, mmu-miR-6336, mmu-miR-6337, mmu-miR-6338, mmu-miR-6339, mmu-miR-6340, mmu-miR-6341, mmu-miR-6342, mmu-miR-6343, mmu-miR-6344, mmu-miR-6345, mmu-miR-6346, mmu-miR-6347, mmu-miR-6348, mmu-miR-6349, mmu-miR-6350, mmu-miR-6351, mmu-miR-6352, mmu-miR-6353, mmu-miR-6354, mmu-miR-6355, mmu-miR-6356, mmu-miR-6357, mmu-miR-6358, mmu-miR-6359, mmu-miR-6360, mmu-miR-6361, mmu-miR-6362, mmu-miR-6363, mmu-miR-6364, mmu-miR-6365, mmu-miR-6366, mmu-miR-6367, mmu-miR-6368, mmu-miR-6369, mmu-miR-6370, mmu-miR-6371, mmu-miR-6372, mmu-miR-6373, mmu-miR-6374, mmu-miR-6375, mmu-miR-6376, mmu-miR-6377, mmu-miR-6378, mmu-miR-6379, mmu-miR-6380, mmu-miR-6381, mmu-miR-6382, mmu-miR-6383, mmu-miR-6384, mmu-miR-6385, mmu-miR-6386, mmu-miR-6387, mmu-miR-6388, mmu-miR-6389, mmu-miR-6390, mmu-miR-6391, mmu-miR-6392-3p, mmu-miR-6392-5p, mmu-miR-6393, mmu-miR-6394, mmu-miR-6395, mmu-miR-6396, mmu-miR-6397, mmu-miR-6398, mmu-miR-6399, mmu-miR-6400, mmu-miR-6401, mmu-miR-6402, mmu-miR-6403, mmu-miR-6404, mmu-miR-6405, mmu-miR-6406, mmu-miR-6407, mmu-miR-6408, mmu-miR-6409, mmu-miR-6410, mmu-miR-6411, mmu-miR-6412, mmu-miR-6413, mmu-miR-6414, mmu-miR-6415, mmu-miR-6416-3p, mmu-miR-6416-5p, mmu-miR-6417, mmu-miR-6418-3p, mmu-miR-6418-5p, mmu-miR-6419, mmu-miR-6420, mmu-miR-6481, mmu-miR-6516-3p, mmu-miR-6516-5p, mmu-miR-652-3p, mmu-miR-652-5p, mmu-miR-653-3p, mmu-miR-653-5p, mmu-miR-6537-3p, mmu-miR-6537-5p, mmu-miR-6538, mmu-miR-6539, mmu-miR-654-3p, mmu-miR-654-5p, mmu-miR-6540-3p, mmu-miR-6540-5p, mmu-miR-6541, mmu-miR-6546-3p, mmu-miR-6546-5p, mmu-miR-664-3p, mmu-miR-664-5p, mmu-miR-665-3p, mmu-miR-665-5p, mmu-miR-666-3p, mmu-miR-666-5p, mmu-miR-667-3p, mmu-miR-667-5p, mmu-miR-668-3p, mmu-miR-668-5p, mmu-miR-669a-3-3p, mmu-miR-669a-3p, mmu-miR-669a-5p, mmu-miR-669b-3p, mmu-miR-669b-5p, mmu-miR-669c-3p, mmu-miR-669c-5p, mmu-miR-669d-2-3p, mmu-miR-669d-3p, mmu-miR-669d-5p, mmu-miR-669e-3p, mmu-miR-669e-5p, mmu-miR-669f-3p, mmu-miR-669f-5p, mmu-miR-669g, mmu-miR-669h-3p, mmu-miR-669h-5p, mmu-miR-669i, mmu-miR-669j, mmu-miR-669k-3p, mmu-miR-669k-5p, mmu-miR-669l-3p, mmu-miR-669l-5p, mmu-miR-669m-3p, mmu-miR-669m-5p, mmu-miR-669n, mmu-miR-669o-3p, mmu-miR-669o-5p, mmu-miR-669p-3p, mmu-miR-669p-5p, mmu-miR-670-3p, mmu-miR-670-5p, mmu-miR-671-3p, mmu-miR-671-5p, mmu-miR-6715-3p, mmu-miR-6715-5p, mmu-miR-672-3p, mmu-miR-672-5p, mmu-miR-673-3p, mmu-miR-673-5p, mmu-miR-674-3p, mmu-miR-674-5p, mmu-miR-675-3p, mmu-miR-675-

5p, mmu-miR-676-3p, mmu-miR-676-5p, mmu-miR-6769b-3p, mmu-miR-6769b-5p, mmu-miR-677-3p, mmu-miR-677-5p, mmu-miR-678, mmu-miR-679-3p, mmu-miR-679-5p, mmu-miR-680, mmu-miR-681, mmu-miR-682, mmu-miR-683, mmu-miR-684, mmu-miR-686, mmu-miR-687, mmu-miR-688, mmu-miR-6896-3p, mmu-miR-6896-5p, mmu-miR-6897-3p, mmu-miR-6897-5p, mmu-miR-6898-3p, mmu-miR-6898-5p, mmu-miR-6899-3p, mmu-miR-6899-5p, mmu-miR-690, mmu-miR-6900-3p, mmu-miR-6900-5p, mmu-miR-6901-3p, mmu-miR-6901-5p, mmu-miR-6902-3p, mmu-miR-6902-5p, mmu-miR-6903-3p, mmu-miR-6903-5p, mmu-miR-6904-3p, mmu-miR-6904-5p, mmu-miR-6905-3p, mmu-miR-6905-5p, mmu-miR-6906-3p, mmu-miR-6906-5p, mmu-miR-6907-3p, mmu-miR-6907-5p, mmu-miR-6908-3p, mmu-miR-6908-5p, mmu-miR-6909-3p, mmu-miR-6909-5p, mmu-miR-691, mmu-miR-6910-3p, mmu-miR-6910-5p, mmu-miR-6911-3p, mmu-miR-6911-5p, mmu-miR-6912-3p, mmu-miR-6912-5p, mmu-miR-6913-3p, mmu-miR-6913-5p, mmu-miR-6914-3p, mmu-miR-6914-5p, mmu-miR-6915-3p, mmu-miR-6915-5p, mmu-miR-6916-3p, mmu-miR-6916-5p, mmu-miR-6917-3p, mmu-miR-6917-5p, mmu-miR-6918-3p, mmu-miR-6918-5p, mmu-miR-6919-3p, mmu-miR-6919-5p, mmu-miR-692, mmu-miR-6920-3p, mmu-miR-6920-5p, mmu-miR-6921-3p, mmu-miR-6921-5p, mmu-miR-6922-3p, mmu-miR-6922-5p, mmu-miR-6923-3p, mmu-miR-6923-5p, mmu-miR-6924-3p, mmu-miR-6924-5p, mmu-miR-6925-3p, mmu-miR-6925-5p, mmu-miR-6926-3p, mmu-miR-6926-5p, mmu-miR-6927-3p, mmu-miR-6927-5p, mmu-miR-6928-3p, mmu-miR-6928-5p, mmu-miR-6929-3p, mmu-miR-6929-5p, mmu-miR-693-3p, mmu-miR-693-5p, mmu-miR-6930-3p, mmu-miR-6930-5p, mmu-miR-6931-3p, mmu-miR-6931-5p, mmu-miR-6932-3p, mmu-miR-6932-5p, mmu-miR-6933-3p, mmu-miR-6933-5p, mmu-miR-6934-3p, mmu-miR-6934-5p, mmu-miR-6935-3p, mmu-miR-6935-5p, mmu-miR-6936-3p, mmu-miR-6936-5p, mmu-miR-6937-3p, mmu-miR-6937-5p, mmu-miR-6938-3p, mmu-miR-6938-5p, mmu-miR-6939-3p, mmu-miR-6939-5p, mmu-miR-694, mmu-miR-6940-3p, mmu-miR-6940-5p, mmu-miR-6941-3p, mmu-miR-6941-5p, mmu-miR-6942-3p, mmu-miR-6942-5p, mmu-miR-6943-3p, mmu-miR-6943-5p, mmu-miR-6944-3p, mmu-miR-6944-5p, mmu-miR-6945-3p, mmu-miR-6945-5p, mmu-miR-6946-3p, mmu-miR-6946-5p, mmu-miR-6947-3p, mmu-miR-6947-5p, mmu-miR-6948-3p, mmu-miR-6948-5p, mmu-miR-6949-3p, mmu-miR-6949-5p, mmu-miR-695, mmu-miR-6950-3p, mmu-miR-6950-5p, mmu-miR-6951-3p, mmu-miR-6951-5p, mmu-miR-6952-3p, mmu-miR-6952-5p, mmu-miR-6953-3p, mmu-miR-6953-5p, mmu-miR-6954-3p, mmu-miR-6954-5p, mmu-miR-6955-3p, mmu-miR-6955-5p, mmu-miR-6956-3p, mmu-miR-6956-5p, mmu-miR-6957-3p, mmu-miR-6957-5p, mmu-miR-6958-3p, mmu-miR-6958-5p, mmu-miR-6959-3p, mmu-miR-6959-5p, mmu-miR-696, mmu-miR-6960-3p, mmu-miR-6960-5p, mmu-miR-6961-3p, mmu-

miR-6961-5p, mmu-miR-6962-3p, mmu-miR-6962-5p, mmu-miR-6963-3p, mmu-miR-6963-5p, mmu-miR-6964-3p, mmu-miR-6964-5p, mmu-miR-6965-3p, mmu-miR-6965-5p, mmu-miR-6966-3p, mmu-miR-6966-5p, mmu-miR-6967-3p, mmu-miR-6967-5p, mmu-miR-6968-3p, mmu-miR-6968-5p, mmu-miR-6969-3p, mmu-miR-6969-5p, mmu-miR-697, mmu-miR-6970-3p, mmu-miR-6970-5p, mmu-miR-6971-3p, mmu-miR-6971-5p, mmu-miR-6972-3p, mmu-miR-6972-5p, mmu-miR-6973a-3p, mmu-miR-6973a-5p, mmu-miR-6973b-3p, mmu-miR-6973b-5p, mmu-miR-6974-3p, mmu-miR-6974-5p, mmu-miR-6975-3p, mmu-miR-6975-5p, mmu-miR-6976-3p, mmu-miR-6976-5p, mmu-miR-6977-3p, mmu-miR-6977-5p, mmu-miR-6978-3p, mmu-miR-6978-5p, mmu-miR-6979-3p, mmu-miR-6979-5p, mmu-miR-698-3p, mmu-miR-698-5p, mmu-miR-6980-3p, mmu-miR-6980-5p, mmu-miR-6981-3p, mmu-miR-6981-5p, mmu-miR-6982-3p, mmu-miR-6982-5p, mmu-miR-6983-3p, mmu-miR-6983-5p, mmu-miR-6984-3p, mmu-miR-6984-5p, mmu-miR-6985-3p, mmu-miR-6985-5p, mmu-miR-6986-3p, mmu-miR-6986-5p, mmu-miR-6987-3p, mmu-miR-6987-5p, mmu-miR-6988-3p, mmu-miR-6988-5p, mmu-miR-6989-3p, mmu-miR-6989-5p, mmu-miR-6990-3p, mmu-miR-6990-5p, mmu-miR-6991-3p, mmu-miR-6991-5p, mmu-miR-6992-3p, mmu-miR-6992-5p, mmu-miR-6993-3p, mmu-miR-6993-5p, mmu-miR-6994-3p, mmu-miR-6994-5p, mmu-miR-6995-3p, mmu-miR-6995-5p, mmu-miR-6996-3p, mmu-miR-6996-5p, mmu-miR-6997-3p, mmu-miR-6997-5p, mmu-miR-6998-3p, mmu-miR-6998-5p, mmu-miR-6999-3p, mmu-miR-6999-5p, mmu-miR-700-3p, mmu-miR-700-5p, mmu-miR-7000-3p, mmu-miR-7000-5p, mmu-miR-7001-3p, mmu-miR-7001-5p, mmu-miR-7002-3p, mmu-miR-7002-5p, mmu-miR-7003-3p, mmu-miR-7003-5p, mmu-miR-7004-3p, mmu-miR-7004-5p, mmu-miR-7005-3p, mmu-miR-7005-5p, mmu-miR-7006-3p, mmu-miR-7006-5p, mmu-miR-7007-3p, mmu-miR-7007-5p, mmu-miR-7008-3p, mmu-miR-7008-5p, mmu-miR-7009-3p, mmu-miR-7009-5p, mmu-miR-701-3p, mmu-miR-701-5p, mmu-miR-7010-3p, mmu-miR-7010-5p, mmu-miR-7011-3p, mmu-miR-7011-5p, mmu-miR-7012-3p, mmu-miR-7012-5p, mmu-miR-7013-3p, mmu-miR-7013-5p, mmu-miR-7014-3p, mmu-miR-7014-5p, mmu-miR-7015-3p, mmu-miR-7015-5p, mmu-miR-7016-3p, mmu-miR-7016-5p, mmu-miR-7017-3p, mmu-miR-7017-5p, mmu-miR-7018-3p, mmu-miR-7018-5p, mmu-miR-7019-3p, mmu-miR-7019-5p, mmu-miR-702-3p, mmu-miR-702-5p, mmu-miR-7020-3p, mmu-miR-7020-5p, mmu-miR-7021-3p, mmu-miR-7021-5p, mmu-miR-7022-3p, mmu-miR-7022-5p, mmu-miR-7023-3p, mmu-miR-7023-5p, mmu-miR-7024-3p, mmu-miR-7024-5p, mmu-miR-7025-3p, mmu-miR-7025-5p, mmu-miR-7026-3p, mmu-miR-7026-5p, mmu-miR-7027-3p, mmu-miR-7027-5p, mmu-miR-7028-3p, mmu-miR-7028-5p, mmu-miR-7029-3p, mmu-miR-7029-5p, mmu-miR-703, mmu-miR-7030-3p, mmu-miR-7030-5p, mmu-miR-7031-3p, mmu-miR-7031-5p, mmu-

miR-7032-3p, mmu-miR-7032-5p, mmu-miR-7033-3p, mmu-miR-7033-5p, mmu-miR-7034-3p, mmu-miR-7034-5p, mmu-miR-7035-3p, mmu-miR-7035-5p, mmu-miR-7036a-3p, mmu-miR-7036a-5p, mmu-miR-7036b-3p, mmu-miR-7036b-5p, mmu-miR-7037-3p, mmu-miR-7037-5p, mmu-miR-7038-3p, mmu-miR-7038-5p, mmu-miR-7039-3p, mmu-miR-7039-5p, mmu-miR-704, mmu-miR-7040-3p, mmu-miR-7040-5p, mmu-miR-7041-3p, mmu-miR-7041-5p, mmu-miR-7042-3p, mmu-miR-7042-5p, mmu-miR-7043-3p, mmu-miR-7043-5p, mmu-miR-7044-3p, mmu-miR-7044-5p, mmu-miR-7045-3p, mmu-miR-7045-5p, mmu-miR-7046-3p, mmu-miR-7046-5p, mmu-miR-7047-3p, mmu-miR-7047-5p, mmu-miR-7048-3p, mmu-miR-7048-5p, mmu-miR-7049-3p, mmu-miR-7049-5p, mmu-miR-705, mmu-miR-7050-3p, mmu-miR-7050-5p, mmu-miR-7051-3p, mmu-miR-7051-5p, mmu-miR-7052-3p, mmu-miR-7052-5p, mmu-miR-7053-3p, mmu-miR-7053-5p, mmu-miR-7054-3p, mmu-miR-7054-5p, mmu-miR-7055-3p, mmu-miR-7055-5p, mmu-miR-7056-3p, mmu-miR-7056-5p, mmu-miR-7057-3p, mmu-miR-7057-5p, mmu-miR-7058-3p, mmu-miR-7058-5p, mmu-miR-7059-3p, mmu-miR-7059-5p, mmu-miR-706, mmu-miR-7060-3p, mmu-miR-7060-5p, mmu-miR-7061-3p, mmu-miR-7061-5p, mmu-miR-7062-3p, mmu-miR-7062-5p, mmu-miR-7063-3p, mmu-miR-7063-5p, mmu-miR-7064-3p, mmu-miR-7064-5p, mmu-miR-7065-3p, mmu-miR-7065-5p, mmu-miR-7066-3p, mmu-miR-7066-5p, mmu-miR-7067-3p, mmu-miR-7067-5p, mmu-miR-7068-3p, mmu-miR-7068-5p, mmu-miR-7069-3p, mmu-miR-7069-5p, mmu-miR-707, mmu-miR-7070-3p, mmu-miR-7070-5p, mmu-miR-7071-3p, mmu-miR-7071-5p, mmu-miR-7072-3p, mmu-miR-7072-5p, mmu-miR-7073-3p, mmu-miR-7073-5p, mmu-miR-7074-3p, mmu-miR-7074-5p, mmu-miR-7075-3p, mmu-miR-7075-5p, mmu-miR-7076-3p, mmu-miR-7076-5p, mmu-miR-7077-3p, mmu-miR-7077-5p, mmu-miR-7078-3p, mmu-miR-7078-5p, mmu-miR-7079-3p, mmu-miR-7079-5p, mmu-miR-708-3p, mmu-miR-708-5p, mmu-miR-7080-3p, mmu-miR-7080-5p, mmu-miR-7081-3p, mmu-miR-7081-5p, mmu-miR-7082-3p, mmu-miR-7082-5p, mmu-miR-7083-3p, mmu-miR-7083-5p, mmu-miR-7084-3p, mmu-miR-7084-5p, mmu-miR-7085-3p, mmu-miR-7085-5p, mmu-miR-7086-3p, mmu-miR-7086-5p, mmu-miR-7087-3p, mmu-miR-7087-5p, mmu-miR-7088-3p, mmu-miR-7088-5p, mmu-miR-7089-3p, mmu-miR-7089-5p, mmu-miR-709, mmu-miR-7090-3p, mmu-miR-7090-5p, mmu-miR-7091-3p, mmu-miR-7091-5p, mmu-miR-7092-3p, mmu-miR-7092-5p, mmu-miR-7093-3p, mmu-miR-7093-5p, mmu-miR-7094-1-5p, mmu-miR-7094-3p, mmu-miR-7094b-2-5p, mmu-miR-710, mmu-miR-711, mmu-miR-7115-3p, mmu-miR-7115-5p, mmu-miR-7116-3p, mmu-miR-7116-5p, mmu-miR-7117-3p, mmu-miR-7117-5p, mmu-miR-7118-3p, mmu-miR-7118-5p, mmu-miR-7119-3p, mmu-miR-7119-5p, mmu-miR-712-3p, mmu-miR-712-5p, mmu-miR-713, mmu-miR-714, mmu-miR-717, mmu-miR-718, mmu-

miR-719, mmu-miR-721, mmu-miR-7210-3p, mmu-miR-7210-5p, mmu-miR-7211-3p, mmu-miR-7211-5p, mmu-miR-7212-3p, mmu-miR-7212-5p, mmu-miR-7213-3p, mmu-miR-7213-5p, mmu-miR-7214-3p, mmu-miR-7214-5p, mmu-miR-7215-3p, mmu-miR-7215-5p, mmu-miR-7216-3p, mmu-miR-7216-5p, mmu-miR-7217-3p, mmu-miR-7217-5p, mmu-miR-7218-3p, mmu-miR-7218-5p, mmu-miR-7219-3p, mmu-miR-7219-5p, mmu-miR-7220-3p, mmu-miR-7220-5p, mmu-miR-7221-3p, mmu-miR-7221-5p, mmu-miR-7222-3p, mmu-miR-7222-5p, mmu-miR-7223-3p, mmu-miR-7223-5p, mmu-miR-7224-3p, mmu-miR-7224-5p, mmu-miR-7225-3p, mmu-miR-7225-5p, mmu-miR-7226-3p, mmu-miR-7226-5p, mmu-miR-7227-3p, mmu-miR-7227-5p, mmu-miR-7228-3p, mmu-miR-7228-5p, mmu-miR-7229-3p, mmu-miR-7229-5p, mmu-miR-7230-3p, mmu-miR-7230-5p, mmu-miR-7231-3p, mmu-miR-7231-5p, mmu-miR-7232-3p, mmu-miR-7232-5p, mmu-miR-7233-3p, mmu-miR-7233-5p, mmu-miR-7234-3p, mmu-miR-7234-5p, mmu-miR-7235-3p, mmu-miR-7235-5p, mmu-miR-7236-3p, mmu-miR-7236-5p, mmu-miR-7237-3p, mmu-miR-7237-5p, mmu-miR-7238-3p, mmu-miR-7238-5p, mmu-miR-7239-3p, mmu-miR-7239-5p, mmu-miR-7240-3p, mmu-miR-7240-5p, mmu-miR-7241-3p, mmu-miR-7241-5p, mmu-miR-7242-3p, mmu-miR-7242-5p, mmu-miR-7243-3p, mmu-miR-7243-5p, mmu-miR-741-3p, mmu-miR-741-5p, mmu-miR-742-3p, mmu-miR-742-5p, mmu-miR-743a-3p, mmu-miR-743a-5p, mmu-miR-743b-3p, mmu-miR-743b-5p, mmu-miR-744-3p, mmu-miR-744-5p, mmu-miR-7578, mmu-miR-758-3p, mmu-miR-758-5p, mmu-miR-759, mmu-miR-760-3p, mmu-miR-760-5p, mmu-miR-761, mmu-miR-762, mmu-miR-763, mmu-miR-764-3p, mmu-miR-764-5p, mmu-miR-7646-3p, mmu-miR-7646-5p, mmu-miR-7647-3p, mmu-miR-7647-5p, mmu-miR-7648-3p, mmu-miR-7648-5p, mmu-miR-7649-3p, mmu-miR-7649-5p, mmu-miR-7650-3p, mmu-miR-7650-5p, mmu-miR-7651-3p, mmu-miR-7651-5p, mmu-miR-7652-3p, mmu-miR-7652-5p, mmu-miR-7653-3p, mmu-miR-7653-5p, mmu-miR-7654-3p, mmu-miR-7654-5p, mmu-miR-7655-3p, mmu-miR-7655-5p, mmu-miR-7656-3p, mmu-miR-7656-5p, mmu-miR-7657-3p, mmu-miR-7657-5p, mmu-miR-7658-3p, mmu-miR-7658-5p, mmu-miR-7659-3p, mmu-miR-7659-5p, mmu-miR-7660-3p, mmu-miR-7660-5p, mmu-miR-7661-3p, mmu-miR-7661-5p, mmu-miR-7662-3p, mmu-miR-7662-5p, mmu-miR-7663-3p, mmu-miR-7663-5p, mmu-miR-7664-3p, mmu-miR-7664-5p, mmu-miR-7665-3p, mmu-miR-7665-5p, mmu-miR-7666-3p, mmu-miR-7666-5p, mmu-miR-7667-3p, mmu-miR-7667-5p, mmu-miR-7668-3p, mmu-miR-7668-5p, mmu-miR-7669-3p, mmu-miR-7669-5p, mmu-miR-767, mmu-miR-7670-3p, mmu-miR-7670-5p, mmu-miR-7671-3p, mmu-miR-7671-5p, mmu-miR-7672-3p, mmu-miR-7672-5p, mmu-miR-7673-3p, mmu-miR-7673-5p, mmu-miR-7674-3p, mmu-miR-7674-5p, mmu-miR-7675-3p, mmu-miR-7675-5p, mmu-miR-7676-3p, mmu-miR-7676-5p, mmu-miR-7677-3p,

mmu-miR-7677-5p, mmu-miR-7678-3p, mmu-miR-7678-5p, mmu-miR-7679-3p, mmu-miR-7679-5p, mmu-miR-7680-3p, mmu-miR-7680-5p, mmu-miR-7681-3p, mmu-miR-7681-5p, mmu-miR-7682-3p, mmu-miR-7682-5p, mmu-miR-7683-3p, mmu-miR-7683-5p, mmu-miR-7684-3p, mmu-miR-7684-5p, mmu-miR-7685-3p, mmu-miR-7685-5p, mmu-miR-7686-3p, mmu-miR-7686-5p, mmu-miR-7687-3p, mmu-miR-7687-5p, mmu-miR-7688-3p, mmu-miR-7688-5p, mmu-miR-7689-3p, mmu-miR-7689-5p, mmu-miR-770-3p, mmu-miR-770-5p, mmu-miR-7a-1-3p, mmu-miR-7a-2-3p, mmu-miR-7a-5p, mmu-miR-7b-3p, mmu-miR-7b-5p, mmu-miR-802-3p, mmu-miR-802-5p, mmu-miR-804, mmu-miR-8090, mmu-miR-8091, mmu-miR-8092, mmu-miR-8093, mmu-miR-8094, mmu-miR-8095, mmu-miR-8096, mmu-miR-8097, mmu-miR-8098, mmu-miR-8099, mmu-miR-8100, mmu-miR-8101, mmu-miR-8102, mmu-miR-8103, mmu-miR-8104, mmu-miR-8105, mmu-miR-8106, mmu-miR-8107, mmu-miR-8108, mmu-miR-8109, mmu-miR-8110, mmu-miR-8111, mmu-miR-8112, mmu-miR-8113, mmu-miR-8114, mmu-miR-8115, mmu-miR-8116, mmu-miR-8117, mmu-miR-8118, mmu-miR-8119, mmu-miR-8120, mmu-miR-871-3p, mmu-miR-871-5p, mmu-miR-872-3p, mmu-miR-872-5p, mmu-miR-873a-3p, mmu-miR-873a-5p, mmu-miR-873b, mmu-miR-874-3p, mmu-miR-874-5p, mmu-miR-875-3p, mmu-miR-875-5p, mmu-miR-876-3p, mmu-miR-876-5p, mmu-miR-877-3p, mmu-miR-877-5p, mmu-miR-878-3p, mmu-miR-878-5p, mmu-miR-879-3p, mmu-miR-879-5p, mmu-miR-880-3p, mmu-miR-880-5p, mmu-miR-881-3p, mmu-miR-881-5p, mmu-miR-882, mmu-miR-883a-3p, mmu-miR-883a-5p, mmu-miR-883b-3p, mmu-miR-883b-5p, mmu-miR-9-3p, mmu-miR-9-5p, mmu-miR-92a-1-5p, mmu-miR-92a-2-5p, mmu-miR-92a-3p, mmu-miR-92b-3p, mmu-miR-92b-5p, mmu-miR-93-3p, mmu-miR-93-5p, mmu-miR-935, mmu-miR-96-3p, mmu-miR-96-5p, mmu-miR-9718, mmu-miR-9768-3p, mmu-miR-9768-5p, mmu-miR-9769-3p, mmu-miR-9769-5p, mmu-miR-98-3p, mmu-miR-98-5p, mmu-miR-99a-3p, mmu-miR-99a-5p, mmu-miR-99b-3p, mmu-miR-99b-5p, mmu-miR-9b-3p, mmu-miR-9b-5p, mne-miR-101, mne-miR-103, mne-miR-105, mne-miR-106a, mne-miR-106b, mne-miR-107, mne-miR-10b, mne-miR-125b, mne-miR-127, mne-miR-130a, mne-miR-133a, mne-miR-134, mne-miR-140, mne-miR-144, mne-miR-145, mne-miR-147, mne-miR-153, mne-miR-154, mne-miR-15a, mne-miR-15b, mne-miR-16, mne-miR-17-3p, mne-miR-17-5p, mne-miR-18, mne-miR-181a-3p, mne-miR-181a-5p, mne-miR-181b, mne-miR-183, mne-miR-184, mne-miR-187, mne-miR-188, mne-miR-194, mne-miR-197, mne-miR-198, mne-miR-199a, mne-miR-19a, mne-miR-19b, mne-miR-20, mne-miR-204, mne-miR-205, mne-miR-206, mne-miR-21, mne-miR-211, mne-miR-214, mne-miR-215, mne-miR-218, mne-miR-22, mne-miR-224, mne-miR-23a, mne-miR-24-3p, mne-miR-24-5p, mne-miR-25, mne-miR-26a, mne-miR-27a, mne-miR-28, mne-miR-29a,

mne-miR-29b, mne-miR-30b, mne-miR-30c, mne-miR-30d, mne-miR-31, mne-miR-32, mne-miR-33, mne-miR-34a, mne-miR-7, mne-miR-9, mne-miR-92, mne-miR-93, mne-miR-96, mne-miR-99a, mse-bantam, mse-let-7a, mse-miR-100, mse-miR-1000, mse-miR-10a, mse-miR-10b, mse-miR-11, mse-miR-12, mse-miR-124, mse-miR-133, mse-miR-137, mse-miR-14, mse-miR-184, mse-miR-190, mse-miR-1926, mse-miR-193, mse-miR-1a, mse-miR-1b, mse-miR-210, mse-miR-252, mse-miR-2565, mse-miR-263a, mse-miR-263b, mse-miR-275, mse-miR-2755, mse-miR-276, mse-miR-2763, mse-miR-2765, mse-miR-2766, mse-miR-2767, mse-miR-2768, mse-miR-277, mse-miR-2779, mse-miR-278, mse-miR-2788, mse-miR-2796, mse-miR-2797a, mse-miR-2797b, mse-miR-279a, mse-miR-279b, mse-miR-279c, mse-miR-279d, mse-miR-281, mse-miR-282, mse-miR-283, mse-miR-285, mse-miR-2a, mse-miR-2b, mse-miR-306, mse-miR-307, mse-miR-308, mse-miR-31, mse-miR-316, mse-miR-317, mse-miR-3286, mse-miR-33, mse-miR-3338, mse-miR-3389, mse-miR-34, mse-miR-450, mse-miR-6093, mse-miR-6094, mse-miR-6095, mse-miR-6096, mse-miR-6097, mse-miR-6098, mse-miR-6099, mse-miR-6100, mse-miR-6101, mse-miR-7, mse-miR-71, mse-miR-745, mse-miR-750, mse-miR-79, mse-miR-8, mse-miR-87, mse-miR-929a, mse-miR-929b, mse-miR-92a, mse-miR-92b, mse-miR-932, mse-miR-9570, mse-miR-9571a, mse-miR-9571b, mse-miR-965, mse-miR-970, mse-miR-981, mse-miR-989, mse-miR-993, mse-miR-998, mse-miR-9a, mse-miR-9b, mse-miR-iab-4-5p, mtr-miR1507-3p, mtr-miR1507-5p, mtr-miR1509a-3p, mtr-miR1509a-5p, mtr-miR1509b, mtr-miR1510a-3p, mtr-miR1510a-5p, mtr-miR1510b-3p, mtr-miR1510b-5p, mtr-miR156a, mtr-miR156b-3p, mtr-miR156b-5p, mtr-miR156c-3p, mtr-miR156c-5p, mtr-miR156d-3p, mtr-miR156d-5p, mtr-miR156e, mtr-miR156f, mtr-miR156g-3p, mtr-miR156g-5p, mtr-miR156h-3p, mtr-miR156h-5p, mtr-miR156i-3p, mtr-miR156i-5p, mtr-miR156j, mtr-miR159a, mtr-miR159b, mtr-miR160a, mtr-miR160b, mtr-miR160c, mtr-miR160d, mtr-miR160e, mtr-miR160f, mtr-miR162, mtr-miR164a, mtr-miR164b, mtr-miR164c, mtr-miR164d, mtr-miR166a, mtr-miR166b, mtr-miR166c, mtr-miR166d, mtr-miR166e-3p, mtr-miR166e-5p, mtr-miR166f, mtr-miR166g-3p, mtr-miR166g-5p, mtr-miR167a, mtr-miR167b-3p, mtr-miR167b-5p, mtr-miR168a, mtr-miR168b, mtr-miR168c-3p, mtr-miR168c-5p, mtr-miR169a, mtr-miR169b, mtr-miR169c, mtr-miR169d-3p, mtr-miR169d-5p, mtr-miR169e-3p, mtr-miR169e-5p, mtr-miR169f, mtr-miR169g, mtr-miR169h, mtr-miR169i, mtr-miR169j, mtr-miR169k, mtr-miR169l-3p, mtr-miR169l-5p, mtr-miR171a, mtr-miR171b, mtr-miR171c, mtr-miR171d, mtr-miR171e-3p, mtr-miR171e-5p, mtr-miR171f, mtr-miR171g, mtr-miR171h, mtr-miR172a, mtr-miR172b, mtr-miR172c-3p, mtr-miR172c-5p, mtr-miR172d-3p, mtr-miR172d-5p, mtr-miR2086-3p, mtr-miR2086-5p, mtr-miR2087-3p, mtr-miR2087-5p, mtr-miR2088-

3p, mtr-miR2088-5p, mtr-miR2089-3p, mtr-miR2089-5p, mtr-miR2111a-3p, mtr-miR2111a-5p, mtr-miR2111b, mtr-miR2111c, mtr-miR2111d-3p, mtr-miR2111d-5p, mtr-miR2111e-3p, mtr-miR2111e-5p, mtr-miR2111f, mtr-miR2111g-3p, mtr-miR2111g-5p, mtr-miR2111h, mtr-miR2111i, mtr-miR2111j, mtr-miR2111k, mtr-miR2111l, mtr-miR2111m-3p, mtr-miR2111m-5p, mtr-miR2111n, mtr-miR2111o, mtr-miR2118, mtr-miR2119, mtr-miR2199, mtr-miR2585a, mtr-miR2585b, mtr-miR2585c, mtr-miR2585d, mtr-miR2586a, mtr-miR2586b, mtr-miR2587a, mtr-miR2587b, mtr-miR2587c, mtr-miR2587d, mtr-miR2587e, mtr-miR2587f, mtr-miR2587g, mtr-miR2588a, mtr-miR2588b, mtr-miR2589, mtr-miR2590a, mtr-miR2590b, mtr-miR2590c, mtr-miR2590d, mtr-miR2590e, mtr-miR2590f, mtr-miR2590g, mtr-miR2590h, mtr-miR2590i, mtr-miR2590j, mtr-miR2591, mtr-miR2592a-3p, mtr-miR2592a-5p, mtr-miR2592a.2-3p, mtr-miR2592ab, mtr-miR2592ac, mtr-miR2592ad, mtr-miR2592ae, mtr-miR2592af, mtr-miR2592ah, mtr-miR2592ai, mtr-miR2592aj, mtr-miR2592al, mtr-miR2592am, mtr-miR2592an, mtr-miR2592ao, mtr-miR2592ap, mtr-miR2592aq, mtr-miR2592ar, mtr-miR2592as, mtr-miR2592at, mtr-miR2592au, mtr-miR2592av, mtr-miR2592aw, mtr-miR2592ax, mtr-miR2592ay, mtr-miR2592az, mtr-miR2592b-3p, mtr-miR2592b-5p, mtr-miR2592ba, mtr-miR2592bb, mtr-miR2592bc, mtr-miR2592bd, mtr-miR2592be, mtr-miR2592bf, mtr-miR2592bg, mtr-miR2592bi, mtr-miR2592bj, mtr-miR2592bk, mtr-miR2592bl-3p, mtr-miR2592bl-5p, mtr-miR2592bm-3p, mtr-miR2592bm-5p, mtr-miR2592bn-3p, mtr-miR2592bn-5p, mtr-miR2592bo-3p, mtr-miR2592bo-5p, mtr-miR2592bp-3p, mtr-miR2592bp-5p, mtr-miR2592bq-3p, mtr-miR2592bq-5p, mtr-miR2592br-3p, mtr-miR2592br-5p, mtr-miR2592c, mtr-miR2592d-3p, mtr-miR2592d-5p, mtr-miR2592e-3p, mtr-miR2592e-5p, mtr-miR2592f, mtr-miR2592g, mtr-miR2592h, mtr-miR2592i, mtr-miR2592j, mtr-miR2592k, mtr-miR2592l, mtr-miR2592m, mtr-miR2592n, mtr-miR2592o-3p, mtr-miR2592o-5p, mtr-miR2592p, mtr-miR2592q-3p, mtr-miR2592q-5p, mtr-miR2592r, mtr-miR2592s-3p, mtr-miR2592s-5p, mtr-miR2592t, mtr-miR2592u, mtr-miR2592v, mtr-miR2592w, mtr-miR2592x, mtr-miR2592y, mtr-miR2592z, mtr-miR2593a, mtr-miR2593b, mtr-miR2593c, mtr-miR2593d, mtr-miR2593e, mtr-miR2594, mtr-miR2595, mtr-miR2596, mtr-miR2597, mtr-miR2598, mtr-miR2599, mtr-miR2600a, mtr-miR2600b, mtr-miR2600c, mtr-miR2600d, mtr-miR2600e, mtr-miR2601, mtr-miR2602a, mtr-miR2602b, mtr-miR2603, mtr-miR2604, mtr-miR2605, mtr-miR2606a, mtr-miR2606b, mtr-miR2606c, mtr-miR2607, mtr-miR2608, mtr-miR2609a, mtr-miR2609b, mtr-miR2610a, mtr-miR2610b, mtr-miR2611, mtr-miR2612, mtr-miR2613, mtr-miR2614, mtr-miR2615a, mtr-miR2615b, mtr-miR2615c, mtr-miR2616, mtr-miR2617a, mtr-miR2617b, mtr-miR2617c, mtr-miR2618a, mtr-miR2618b, mtr-

miR2619a, mtr-miR2619b-3p, mtr-miR2619b-5p, mtr-miR2620, mtr-miR2621, mtr-miR2622, mtr-miR2623, mtr-miR2624, mtr-miR2625, mtr-miR2626, mtr-miR2627, mtr-miR2628, mtr-miR2629a, mtr-miR2629b, mtr-miR2629c, mtr-miR2629d, mtr-miR2629e, mtr-miR2629f, mtr-miR2629g, mtr-miR2629h, mtr-miR2630a, mtr-miR2630b, mtr-miR2630c, mtr-miR2630d, mtr-miR2630e, mtr-miR2630f, mtr-miR2630g, mtr-miR2630h, mtr-miR2630i, mtr-miR2630j, mtr-miR2630k, mtr-miR2630l, mtr-miR2630m, mtr-miR2630n, mtr-miR2630o, mtr-miR2630p, mtr-miR2630q, mtr-miR2630r, mtr-miR2630s, mtr-miR2630t, mtr-miR2630u, mtr-miR2630v, mtr-miR2630w, mtr-miR2630x, mtr-miR2630y, mtr-miR2631, mtr-miR2632a, mtr-miR2632b, mtr-miR2632c, mtr-miR2633, mtr-miR2634, mtr-miR2635, mtr-miR2636, mtr-miR2637, mtr-miR2638a, mtr-miR2638b, mtr-miR2639, mtr-miR2640, mtr-miR2641, mtr-miR2642, mtr-miR2643a, mtr-miR2643b-3p, mtr-miR2643b-5p, mtr-miR2644, mtr-miR2645, mtr-miR2646a, mtr-miR2646b, mtr-miR2647a, mtr-miR2647b, mtr-miR2647c, mtr-miR2648, mtr-miR2649, mtr-miR2650, mtr-miR2651, mtr-miR2652a, mtr-miR2652b, mtr-miR2652c, mtr-miR2652d, mtr-miR2652e, mtr-miR2652f, mtr-miR2652g, mtr-miR2652h, mtr-miR2652i, mtr-miR2652j, mtr-miR2652k, mtr-miR2652l, mtr-miR2652m, mtr-miR2653a, mtr-miR2653b, mtr-miR2653c, mtr-miR2653d, mtr-miR2654, mtr-miR2655a, mtr-miR2655b, mtr-miR2655c, mtr-miR2655d, mtr-miR2655e, mtr-miR2655f, mtr-miR2655g, mtr-miR2655h, mtr-miR2655i, mtr-miR2655j, mtr-miR2655k, mtr-miR2655l, mtr-miR2655m, mtr-miR2655n, mtr-miR2655o, mtr-miR2656a, mtr-miR2656b, mtr-miR2656c, mtr-miR2656d, mtr-miR2656e, mtr-miR2657, mtr-miR2658, mtr-miR2659a, mtr-miR2659b, mtr-miR2659c, mtr-miR2659d, mtr-miR2659e, mtr-miR2659f, mtr-miR2659g, mtr-miR2659h, mtr-miR2659i, mtr-miR2659j, mtr-miR2659k, mtr-miR2660, mtr-miR2661, mtr-miR2662, mtr-miR2663, mtr-miR2664a, mtr-miR2664b, mtr-miR2665, mtr-miR2666, mtr-miR2667a, mtr-miR2667b, mtr-miR2668, mtr-miR2669a, mtr-miR2669b, mtr-miR2670a, mtr-miR2670b, mtr-miR2670c, mtr-miR2670d, mtr-miR2670e, mtr-miR2670f, mtr-miR2670g, mtr-miR2671a, mtr-miR2671b, mtr-miR2671c, mtr-miR2671d, mtr-miR2671e, mtr-miR2671f, mtr-miR2671g, mtr-miR2671h, mtr-miR2671i, mtr-miR2671j, mtr-miR2672, mtr-miR2673a, mtr-miR2673b, mtr-miR2674, mtr-miR2675, mtr-miR2676a, mtr-miR2676b, mtr-miR2676c, mtr-miR2676d, mtr-miR2676e, mtr-miR2676f, mtr-miR2677, mtr-miR2678, mtr-miR2679a, mtr-miR2679b, mtr-miR2679c, mtr-miR2680a, mtr-miR2680b, mtr-miR2680c, mtr-miR2680d, mtr-miR2680e, mtr-miR319a-3p, mtr-miR319a-5p, mtr-miR319b-3p, mtr-miR319b-5p, mtr-miR319c-3p, mtr-miR319c-5p, mtr-miR319d-3p, mtr-miR319d-5p, mtr-miR390, mtr-miR393a, mtr-miR393b-3p, mtr-miR393b-5p, mtr-miR395a, mtr-miR395b, mtr-miR395c,

mtr-miR395d, mtr-miR395e, mtr-miR395f, mtr-miR395g, mtr-miR395h, mtr-miR395i, mtr-miR395j, mtr-miR395k, mtr-miR395l, mtr-miR395m, mtr-miR395n, mtr-miR395o, mtr-miR396a-3p, mtr-miR396a-5p, mtr-miR396b-3p, mtr-miR396b-5p, mtr-miR396c, mtr-miR397-3p, mtr-miR397-5p, mtr-miR398a-3p, mtr-miR398a-5p, mtr-miR398b, mtr-miR398c, mtr-miR399a, mtr-miR399b, mtr-miR399c, mtr-miR399d, mtr-miR399e, mtr-miR399f, mtr-miR399g, mtr-miR399h, mtr-miR399i, mtr-miR399j, mtr-miR399k, mtr-miR399l, mtr-miR399m, mtr-miR399n, mtr-miR399o, mtr-miR399p, mtr-miR399q, mtr-miR399r, mtr-miR399s-3p, mtr-miR399s-5p, mtr-miR399t-3p, mtr-miR399t-5p, mtr-miR408-3p, mtr-miR408-5p, mtr-miR4414a-3p, mtr-miR4414a-5p, mtr-miR4414b, mtr-miR482-3p, mtr-miR482-5p, mtr-miR5037a, mtr-miR5037b, mtr-miR5037c, mtr-miR5204, mtr-miR5205a, mtr-miR5205b, mtr-miR5205c, mtr-miR5205d, mtr-miR5206a, mtr-miR5206b, mtr-miR5207, mtr-miR5208a, mtr-miR5208b, mtr-miR5208c, mtr-miR5208d, mtr-miR5209, mtr-miR5210, mtr-miR5211, mtr-miR5212-3p, mtr-miR5212-5p, mtr-miR5213-3p, mtr-miR5213-5p, mtr-miR5214-3p, mtr-miR5214-5p, mtr-miR5215, mtr-miR5216a, mtr-miR5216b, mtr-miR5217, mtr-miR5218, mtr-miR5219, mtr-miR5221, mtr-miR5222, mtr-miR5223, mtr-miR5224a, mtr-miR5224b, mtr-miR5225a, mtr-miR5225b, mtr-miR5225c, mtr-miR5226, mtr-miR5227, mtr-miR5228, mtr-miR5229a, mtr-miR5229b, mtr-miR5230, mtr-miR5231, mtr-miR5232, mtr-miR5233, mtr-miR5234, mtr-miR5235a, mtr-miR5235b, mtr-miR5236a, mtr-miR5236b, mtr-miR5236c, mtr-miR5236d, mtr-miR5236e, mtr-miR5237, mtr-miR5238, mtr-miR5239, mtr-miR5240, mtr-miR5241a, mtr-miR5241b, mtr-miR5241c, mtr-miR5242, mtr-miR5243, mtr-miR5244, mtr-miR5245, mtr-miR5246, mtr-miR5247, mtr-miR5248, mtr-miR5249, mtr-miR5250, mtr-miR5251, mtr-miR5252, mtr-miR5253, mtr-miR5254, mtr-miR5255, mtr-miR5256, mtr-miR5257, mtr-miR5258, mtr-miR5259, mtr-miR5260, mtr-miR5261, mtr-miR5262, mtr-miR5263, mtr-miR5264, mtr-miR5265, mtr-miR5266, mtr-miR5267a, mtr-miR5267b, mtr-miR5267c, mtr-miR5267d, mtr-miR5267e, mtr-miR5267f, mtr-miR5267g, mtr-miR5267h, mtr-miR5267i, mtr-miR5267j, mtr-miR5267k, mtr-miR5267l, mtr-miR5267m, mtr-miR5267n, mtr-miR5267o, mtr-miR5268a, mtr-miR5268b, mtr-miR5269a, mtr-miR5269b, mtr-miR5270a, mtr-miR5270b, mtr-miR5271a, mtr-miR5271b, mtr-miR5271c, mtr-miR5271d, mtr-miR5271e, mtr-miR5272a, mtr-miR5272b, mtr-miR5272c, mtr-miR5272d, mtr-miR5272e, mtr-miR5272f, mtr-miR5273, mtr-miR5274a, mtr-miR5274b-3p, mtr-miR5274b-5p, mtr-miR5275, mtr-miR5276, mtr-miR5277, mtr-miR5278, mtr-miR5279, mtr-miR5280, mtr-miR5281a, mtr-miR5281b, mtr-miR5281c, mtr-miR5281d, mtr-miR5281e, mtr-miR5281f, mtr-miR5282, mtr-miR5283, mtr-miR5284a, mtr-miR5284b, mtr-miR5284c, mtr-miR5284d, mtr-

miR5284e, mtr-miR5284f, mtr-miR5284g, mtr-miR5284h, mtr-miR5285a, mtr-miR5285b, mtr-miR5285c, mtr-miR5286a, mtr-miR5286b, mtr-miR5287a, mtr-miR5287b, mtr-miR5288, mtr-miR5289a, mtr-miR5289b, mtr-miR5290, mtr-miR5291a, mtr-miR5291b, mtr-miR5291c, mtr-miR5292a, mtr-miR5292b, mtr-miR5293, mtr-miR5294a, mtr-miR5294b, mtr-miR5294c, mtr-miR5295a, mtr-miR5295b, mtr-miR5295c, mtr-miR5295d, mtr-miR5296, mtr-miR5297, mtr-miR5298a, mtr-miR5298b, mtr-miR5298c, mtr-miR5298d, mtr-miR5299, mtr-miR530, mtr-miR5554a-3p, mtr-miR5554a-5p, mtr-miR5554b-3p, mtr-miR5554b-5p, mtr-miR5554c-3p, mtr-miR5554c-5p, mtr-miR5555-3p, mtr-miR5555-5p, mtr-miR5556-3p, mtr-miR5556-5p, mtr-miR5557-3p, mtr-miR5557-5p, mtr-miR5558-3p, mtr-miR5558-5p, mtr-miR5559-3p, mtr-miR5559-5p, mtr-miR5560-3p, mtr-miR5560-5p, mtr-miR5561-3p, mtr-miR5561-5p, mtr-miR5562-3p, mtr-miR5562-5p, mtr-miR5563-3p, mtr-miR5563-5p, mtr-miR5740, mtr-miR5741a, mtr-miR5741b, mtr-miR5741c, mtr-miR5741d, mtr-miR5741e, mtr-miR5742, mtr-miR5743a, mtr-miR5743b, mtr-miR5744, mtr-miR5745a, mtr-miR5745b, mtr-miR5746, mtr-miR5747, mtr-miR5748, mtr-miR5749, mtr-miR5750, mtr-miR5751, mtr-miR5752a, mtr-miR5752b, mtr-miR5753, mtr-miR5754, mtr-miR5755, mtr-miR5756, mtr-miR5757, mtr-miR5758, mtr-miR5759, mtr-miR5760, mtr-miR7696a-3p, mtr-miR7696a-5p, mtr-miR7696b-3p, mtr-miR7696b-5p, mtr-miR7696c-3p, mtr-miR7696c-5p, mtr-miR7696d-3p, mtr-miR7696d-5p, mtr-miR7697-3p, mtr-miR7697-5p, mtr-miR7698-3p, mtr-miR7698-5p, mtr-miR7699-3p, mtr-miR7699-5p, mtr-miR7700-5p, mtr-miR7701-3p, mtr-miR7701-5p, mze-let-7a, mze-let-7b, mze-let-7c, mze-let-7d, mze-let-7e, mze-let-7g, mze-let-7h, mze-let-7i, mze-miR-1, mze-miR-100, mze-miR-101a, mze-miR-101b, mze-miR-103, mze-miR-10544, mze-miR-10545, mze-miR-10552, mze-miR-10553, mze-miR-10554, mze-miR-10566, mze-miR-10567, mze-miR-106, mze-miR-107, mze-miR-10a, mze-miR-10b, mze-miR-10c, mze-miR-10d, mze-miR-122, mze-miR-124, mze-miR-125a, mze-miR-125b, mze-miR-125c, mze-miR-126, mze-miR-128, mze-miR-129, mze-miR-130, mze-miR-132a, mze-miR-132b, mze-miR-133a, mze-miR-133b, mze-miR-135a, mze-miR-135b, mze-miR-135c, mze-miR-135c-3p, mze-miR-135d, mze-miR-137, mze-miR-138, mze-miR-1388, mze-miR-139, mze-miR-140, mze-miR-142, mze-miR-144, mze-miR-146, mze-miR-147, mze-miR-148-5p, mze-miR-150, mze-miR-153a, mze-miR-153b, mze-miR-153c, mze-miR-155, mze-miR-15a, mze-miR-15b, mze-miR-15c-3p, mze-miR-15c-5p, mze-miR-16a, mze-miR-16b, mze-miR-17, mze-miR-181a, mze-miR-181b, mze-miR-182, mze-miR-183, mze-miR-184a, mze-miR-184b, mze-miR-187, mze-miR-18a, mze-miR-18b, mze-miR-190a, mze-miR-190b, mze-miR-192, mze-miR-193, mze-miR-194a, mze-miR-194b, mze-miR-196a, mze-miR-196b, mze-miR-199, mze-miR-19a, mze-miR-19b, mze-

miR-19c, mze-miR-19d, mze-miR-200a, mze-miR-200b, mze-miR-203, mze-miR-204, mze-miR-205, mze-miR-206, mze-miR-20a, mze-miR-20b, mze-miR-21, mze-miR-212a, mze-miR-212b, mze-miR-214, mze-miR-216a, mze-miR-216b, mze-miR-2187a, mze-miR-2187b, mze-miR-2188, mze-miR-218a, mze-miR-218b, mze-miR-219a, mze-miR-219b, mze-miR-219c, mze-miR-221, mze-miR-222, mze-miR-22a, mze-miR-22b, mze-miR-22c, mze-miR-23a, mze-miR-23b, mze-miR-23c, mze-miR-24a, mze-miR-24b, mze-miR-25, mze-miR-26a, mze-miR-26b, mze-miR-27a, mze-miR-27b, mze-miR-27d-3p, mze-miR-27d-5p, mze-miR-27e, mze-miR-29a, mze-miR-29b, mze-miR-301a, mze-miR-301b, mze-miR-30a, mze-miR-30b, mze-miR-30c, mze-miR-30d, mze-miR-31, mze-miR-3120, mze-miR-338, mze-miR-33a, mze-miR-33b, mze-miR-34, mze-miR-365, mze-miR-375, mze-miR-429b, mze-miR-449a, mze-miR-449b, mze-miR-455, mze-miR-456, mze-miR-457, mze-miR-458, mze-miR-460, mze-miR-462, mze-miR-489, mze-miR-499, mze-miR-551, mze-miR-7132a-3p, mze-miR-7132a-5p, mze-miR-7132b-3p, mze-miR-7132b-5p, mze-miR-7133, mze-miR-7147, mze-miR-722, mze-miR-723a, mze-miR-723b, mze-miR-724, mze-miR-725, mze-miR-726, mze-miR-727, mze-miR-728, mze-miR-730, mze-miR-731, mze-miR-734, mze-miR-7a, mze-miR-7b, mze-miR-8159, mze-miR-8160b, mze-miR-9, mze-miR-92a, mze-miR-92b, mze-miR-93, mze-miR-96, mze-miR-99a, mze-miR-99b, nbr-let-7a, nbr-let-7b, nbr-let-7c, nbr-let-7d, nbr-let-7e, nbr-let-7g, nbr-let-7h, nbr-let-7i, nbr-miR-1, nbr-miR-100, nbr-miR-101a, nbr-miR-101b, nbr-miR-103, nbr-miR-10544, nbr-miR-10553, nbr-miR-10568, nbr-miR-10569, nbr-miR-10570, nbr-miR-10571, nbr-miR-10572, nbr-miR-107, nbr-miR-10a, nbr-miR-10b, nbr-miR-10c, nbr-miR-10d, nbr-miR-122, nbr-miR-124, nbr-miR-125a, nbr-miR-125b, nbr-miR-126, nbr-miR-129, nbr-miR-130, nbr-miR-132a, nbr-miR-132b, nbr-miR-133a, nbr-miR-133b, nbr-miR-135a, nbr-miR-135b, nbr-miR-135c-3p, nbr-miR-135c-5p, nbr-miR-135d, nbr-miR-137, nbr-miR-138, nbr-miR-1388, nbr-miR-139, nbr-miR-140, nbr-miR-142, nbr-miR-144, nbr-miR-147, nbr-miR-148-3p, nbr-miR-148-5p, nbr-miR-150, nbr-miR-153a, nbr-miR-153b, nbr-miR-153c, nbr-miR-155, nbr-miR-15a, nbr-miR-15b, nbr-miR-15c-3p, nbr-miR-15c-5p, nbr-miR-16a, nbr-miR-16b, nbr-miR-17, nbr-miR-181a, nbr-miR-181b, nbr-miR-182, nbr-miR-183, nbr-miR-184a, nbr-miR-184b, nbr-miR-187, nbr-miR-18a, nbr-miR-18b, nbr-miR-190a, nbr-miR-190b, nbr-miR-192, nbr-miR-193, nbr-miR-194a, nbr-miR-194b, nbr-miR-196a, nbr-miR-196b, nbr-miR-199, nbr-miR-19a, nbr-miR-19b, nbr-miR-19c, nbr-miR-19d, nbr-miR-200a, nbr-miR-200b, nbr-miR-203, nbr-miR-204, nbr-miR-205, nbr-miR-206, nbr-miR-20a, nbr-miR-20b, nbr-miR-21, nbr-miR-212a, nbr-miR-212b, nbr-miR-214, nbr-miR-216a, nbr-miR-216b, nbr-miR-2187a, nbr-miR-2187b, nbr-miR-2188, nbr-miR-218a, nbr-miR-218b, nbr-miR-219a, nbr-miR-219b, nbr-miR-219c,

nbr-miR-221, nbr-miR-222, nbr-miR-22a, nbr-miR-22b, nbr-miR-22c, nbr-miR-23a, nbr-miR-23b, nbr-miR-23c, nbr-miR-24a, nbr-miR-24b, nbr-miR-24c, nbr-miR-25, nbr-miR-26a, nbr-miR-26b, nbr-miR-27a, nbr-miR-27b, nbr-miR-27d-3p, nbr-miR-27d-5p, nbr-miR-27e, nbr-miR-29a, nbr-miR-29b, nbr-miR-29c, nbr-miR-301a, nbr-miR-301b, nbr-miR-30a, nbr-miR-30b, nbr-miR-30c, nbr-miR-30d, nbr-miR-31, nbr-miR-3120, nbr-miR-338, nbr-miR-33a, nbr-miR-33b, nbr-miR-34, nbr-miR-365, nbr-miR-375, nbr-miR-429b, nbr-miR-449a, nbr-miR-449b, nbr-miR-455, nbr-miR-456, nbr-miR-457, nbr-miR-458, nbr-miR-460, nbr-miR-462, nbr-miR-489, nbr-miR-499, nbr-miR-551, nbr-miR-7, nbr-miR-7132a, nbr-miR-7132a-5p, nbr-miR-7132b, nbr-miR-7133-3p, nbr-miR-7133-5p, nbr-miR-7147, nbr-miR-722, nbr-miR-723a, nbr-miR-723b, nbr-miR-724, nbr-miR-725, nbr-miR-726, nbr-miR-727, nbr-miR-728, nbr-miR-730, nbr-miR-731, nbr-miR-734, nbr-miR-8159, nbr-miR-8160, nbr-miR-9, nbr-miR-92a, nbr-miR-92b, nbr-miR-93, nbr-miR-96, nbr-miR-99a, nbr-miR-99b, ngi-let-7, ngi-miR-1, ngi-miR-100, ngi-miR-133, ngi-miR-137, ngi-miR-13a, ngi-miR-14, ngi-miR-184, ngi-miR-2, ngi-miR-210, ngi-miR-219, ngi-miR-252, ngi-miR-263b, ngi-miR-275, ngi-miR-276, ngi-miR-277, ngi-miR-281, ngi-miR-283, ngi-miR-29b, ngi-miR-305, ngi-miR-317, ngi-miR-31a, ngi-miR-34, ngi-miR-375, ngi-miR-927, ngi-miR-929, ngi-miR-92a, ngi-miR-932, ngi-miR-993, ngi-miR-9a, ngi-miR-iab-4, ngi-miR-iab-8, nle-let-7a, nle-let-7c, nle-let-7e, nle-let-7f, nle-let-7g, nle-let-7i, nle-miR-100, nle-miR-101, nle-miR-103a, nle-miR-106b, nle-miR-107, nle-miR-10a, nle-miR-10b, nle-miR-125a, nle-miR-125b, nle-miR-126, nle-miR-1260b, nle-miR-127, nle-miR-128, nle-miR-1296, nle-miR-1307, nle-miR-130a, nle-miR-132, nle-miR-136, nle-miR-138, nle-miR-140, nle-miR-143, nle-miR-145, nle-miR-146a, nle-miR-146b, nle-miR-148a, nle-miR-148b, nle-miR-149, nle-miR-151, nle-miR-152, nle-miR-153, nle-miR-155, nle-miR-15a, nle-miR-15b, nle-miR-16, nle-miR-17, nle-miR-181a, nle-miR-181b, nle-miR-181c, nle-miR-182, nle-miR-186, nle-miR-190, nle-miR-191, nle-miR-192, nle-miR-193b, nle-miR-195, nle-miR-196b, nle-miR-199a, nle-miR-199b, nle-miR-19a, nle-miR-19b, nle-miR-20, nle-miR-21, nle-miR-210, nle-miR-212, nle-miR-214, nle-miR-218, nle-miR-22, nle-miR-221, nle-miR-222, nle-miR-224, nle-miR-23b, nle-miR-24, nle-miR-2467, nle-miR-25, nle-miR-26a, nle-miR-27b, nle-miR-28, nle-miR-29a, nle-miR-29b, nle-miR-29c, nle-miR-301a, nle-miR-30a, nle-miR-30b, nle-miR-30c, nle-miR-30d, nle-miR-30e, nle-miR-31, nle-miR-320a, nle-miR-320b, nle-miR-320c, nle-miR-324, nle-miR-331, nle-miR-340, nle-miR-345, nle-miR-34a, nle-miR-34c, nle-miR-361, nle-miR-365, nle-miR-374a, nle-miR-378a, nle-miR-378d, nle-miR-381, nle-miR-3925, nle-miR-409, nle-miR-410, nle-miR-421, nle-miR-423, nle-miR-424, nle-miR-450a, nle-miR-450b, nle-miR-454, nle-miR-455, nle-miR-4670, nle-miR-4714, nle-miR-484, nle-miR-

497, nle-miR-501, nle-miR-502a, nle-miR-502b, nle-miR-505, nle-miR-532, nle-miR-542, nle-miR-549, nle-miR-561, nle-miR-5699, nle-miR-582, nle-miR-628, nle-miR-660, nle-miR-671, nle-miR-7180, nle-miR-769, nle-miR-877, nle-miR-887, nle-miR-92a, nle-miR-92b, nle-miR-93, nle-miR-942, nle-miR-98, nle-miR-99a, nlo-miR-10, nlo-miR-12, nlo-miR-125, nlo-miR-133, nlo-miR-137, nlo-miR-13a, nlo-miR-184, nlo-miR-2, nlo-miR-219, nlo-miR-252, nlo-miR-263b, nlo-miR-275, nlo-miR-276, nlo-miR-277, nlo-miR-281, nlo-miR-282, nlo-miR-305, nlo-miR-315, nlo-miR-31a, nlo-miR-34, nlo-miR-7, nlo-miR-8, nlo-miR-927, nlo-miR-929, nlo-miR-92a, nlo-miR-932, nlo-miR-993, nlo-miR-9a, nta-miR1446, nta-miR156a, nta-miR156b, nta-miR156c, nta-miR156d, nta-miR156e, nta-miR156f, nta-miR156g, nta-miR156h, nta-miR156i, nta-miR156j, nta-miR159, nta-miR160a, nta-miR160b, nta-miR160c, nta-miR160d, nta-miR162a, nta-miR162b, nta-miR164a, nta-miR164b, nta-miR164c, nta-miR166a, nta-miR166b, nta-miR166c, nta-miR166d, nta-miR166e, nta-miR166f, nta-miR166g, nta-miR166h, nta-miR167a, nta-miR167b, nta-miR167c, nta-miR167d, nta-miR167e, nta-miR168a, nta-miR168b, nta-miR168c, nta-miR168d, nta-miR168e, nta-miR169a, nta-miR169b, nta-miR169c, nta-miR169d, nta-miR169e, nta-miR169f, nta-miR169g, nta-miR169h, nta-miR169i, nta-miR169j, nta-miR169k, nta-miR169l, nta-miR169m, nta-miR169o, nta-miR169p, nta-miR169q, nta-miR169r, nta-miR169s, nta-miR169t, nta-miR171a, nta-miR171b, nta-miR171c, nta-miR172a, nta-miR172b, nta-miR172c, nta-miR172d, nta-miR172e, nta-miR172f, nta-miR172g, nta-miR172h, nta-miR172i, nta-miR172j, nta-miR1919, nta-miR319a, nta-miR319b, nta-miR390a, nta-miR390b, nta-miR390c, nta-miR394, nta-miR395a, nta-miR395b, nta-miR395c, nta-miR396a, nta-miR396b, nta-miR396c, nta-miR397, nta-miR398, nta-miR399a, nta-miR399b, nta-miR399c, nta-miR399d, nta-miR399e, nta-miR399f, nta-miR399g, nta-miR408, nta-miR477a, nta-miR477b, nta-miR479a, nta-miR479b, nta-miR482a, nta-miR482b-3p, nta-miR482b-5p, nta-miR482c, nta-miR482d, nta-miR5303a, nta-miR5303b, nta-miR5303c, nta-miR6019a, nta-miR6019b, nta-miR6020a-3p, nta-miR6020a-5p, nta-miR6020b, nta-miR6021, nta-miR6024, nta-miR6025a, nta-miR6025b, nta-miR6025c, nta-miR6025d, nta-miR6025e, nta-miR6144, nta-miR6145a, nta-miR6145b, nta-miR6145c, nta-miR6145d, nta-miR6145e, nta-miR6145f, nta-miR6146a, nta-miR6146b, nta-miR6147, nta-miR6148a, nta-miR6148b, nta-miR6149a, nta-miR6149b, nta-miR6150, nta-miR6151a, nta-miR6151b, nta-miR6151c, nta-miR6151d, nta-miR6151e, nta-miR6151f, nta-miR6151g, nta-miR6151h, nta-miR6151i, nta-miR6152a, nta-miR6152b, nta-miR6153, nta-miR6154a, nta-miR6154b, nta-miR6155, nta-miR6156, nta-miR6157, nta-miR6158a, nta-miR6158b, nta-miR6158c, nta-miR6159, nta-miR6160, nta-miR6161a, nta-miR6161b, nta-

miR6161c, nta-miR6161d, nta-miR6162, nta-miR6163, nta-miR6164a, nta-miR6164b, nta-miR827, nve-miR-100-3p, nve-miR-100-5p, nve-miR-2022-3p, nve-miR-2022-5p, nve-miR-2023-3p, nve-miR-2023-5p, nve-miR-2024a-3p, nve-miR-2024a-5p, nve-miR-2024b-3p, nve-miR-2024b-5p, nve-miR-2024c-3p, nve-miR-2024c-5p, nve-miR-2024d, nve-miR-2024e-3p, nve-miR-2024e-5p, nve-miR-2024f-3p, nve-miR-2024f-5p, nve-miR-2024g-3p, nve-miR-2024g-5p, nve-miR-2025-3p, nve-miR-2025-5p, nve-miR-2026-3p, nve-miR-2026-5p, nve-miR-2027-3p, nve-miR-2027-5p, nve-miR-2028-3p, nve-miR-2028-5p, nve-miR-2029-3p, nve-miR-2029-5p, nve-miR-2030-3p, nve-miR-2030-5p, nve-miR-2031-3p, nve-miR-2031-5p, nve-miR-2032a-3p, nve-miR-2032a-5p, nve-miR-2032b-3p, nve-miR-2032b-5p, nve-miR-2033-3p, nve-miR-2033-5p, nve-miR-2034-3p, nve-miR-2034-5p, nve-miR-2035-3p, nve-miR-2035-5p, nve-miR-2036-3p, nve-miR-2036-5p, nve-miR-2037-3p, nve-miR-2037-5p, nve-miR-2038-3p, nve-miR-2038-5p, nve-miR-2039-3p, nve-miR-2039-5p, nve-miR-2040a-3p, nve-miR-2040a-5p, nve-miR-2040b-3p, nve-miR-2040b-5p, nve-miR-2041a-3p, nve-miR-2041a-5p, nve-miR-2041b-3p, nve-miR-2041b-5p, nve-miR-2042-3p, nve-miR-2042-5p, nve-miR-2043-2-3p, nve-miR-2043-3p, nve-miR-2043-5p, nve-miR-2044-3p, nve-miR-2044-5p, nve-miR-2045-3p, nve-miR-2045-5p, nve-miR-2046-3p, nve-miR-2046-5p, nve-miR-2047-3p, nve-miR-2047-5p, nve-miR-2048-3p, nve-miR-2048-5p, nve-miR-2049-3p, nve-miR-2049-5p, nve-miR-2050-3p, nve-miR-2050-5p, nve-miR-2051-3p, nve-miR-2051-5p, nve-miR-9412, nve-miR-9413, nve-miR-9414-3p, nve-miR-9414-5p, nve-miR-9415, nve-miR-9416, nve-miR-9417, nve-miR-9418, nve-miR-9419, nve-miR-9420, nve-miR-9421, nve-miR-9422, nve-miR-9423, nve-miR-9424a, nve-miR-9424b, nve-miR-9425, nve-miR-9426, nve-miR-9427, nve-miR-9428, nve-miR-9429-3p, nve-miR-9429-5p, nve-miR-9430, nve-miR-9431, nve-miR-9432, nve-miR-9433, nve-miR-9434, nve-miR-9435, nve-miR-9436, nve-miR-9437, nve-miR-9438, nve-miR-9439, nve-miR-9440, nve-miR-9441, nve-miR-9442, nve-miR-9443, nve-miR-9444, nve-miR-9445, nve-miR-9446, nve-miR-9447, nve-miR-9448, nve-miR-9449, nve-miR-9450, nve-miR-9451, nve-miR-9452, nve-miR-9453, nve-miR-9454, nve-miR-9455, nve-miR-9456, nve-miR-9457, nve-miR-9458, nve-miR-9459, nve-miR-9460, nve-miR-9461, nve-miR-9462, nve-miR-9463, nve-miR-9464, nve-miR-9465, nve-miR-9466, nve-miR-9467, nve-miR-9468, nvi-bantam, nvi-let-7, nvi-miR-1, nvi-miR-10, nvi-miR-100, nvi-miR-12, nvi-miR-124, nvi-miR-125, nvi-miR-133, nvi-miR-137, nvi-miR-13a, nvi-miR-13b, nvi-miR-14, nvi-miR-184, nvi-miR-190, nvi-miR-210, nvi-miR-219, nvi-miR-252, nvi-miR-263b, nvi-miR-275, nvi-miR-276, nvi-miR-277, nvi-miR-279, nvi-miR-2796, nvi-miR-281, nvi-miR-282, nvi-miR-283, nvi-miR-29b, nvi-miR-2a, nvi-miR-2b, nvi-miR-2c, nvi-miR-305, nvi-miR-307, nvi-miR-315, nvi-

miR-317, nvi-miR-31a, nvi-miR-33, nvi-miR-34, nvi-miR-3477, nvi-miR-3478, nvi-miR-375, nvi-miR-7, nvi-miR-71, nvi-miR-8, nvi-miR-927, nvi-miR-928, nvi-miR-929, nvi-miR-92a, nvi-miR-932, nvi-miR-993, nvi-miR-9a, nvi-miR-iab-4, nvi-miR-iab-8, oan-let-7b-3p, oan-let-7b-5p, oan-let-7c-3p, oan-let-7c-5p, oan-let-7d-3p, oan-let-7d-5p, oan-let-7e-3p, oan-let-7e-5p, oan-let-7f-1-3p, oan-let-7f-2-3p, oan-let-7f-5p, oan-let-7g-3p, oan-let-7g-5p, oan-miR-100-3p, oan-miR-100-5p, oan-miR-101, oan-miR-103-1-5p, oan-miR-103-2-5p, oan-miR-103-3p, oan-miR-106-3p, oan-miR-106-5p, oan-miR-107-3p, oan-miR-107-5p, oan-miR-10a-3p, oan-miR-10a-5p, oan-miR-10b-3p, oan-miR-10b-5p, oan-miR-122-3p, oan-miR-122-5p, oan-miR-124a-1-3p, oan-miR-124a-2-3p, oan-miR-124a-5p, oan-miR-125-3p, oan-miR-125-5p, oan-miR-126-3p, oan-miR-126-5p, oan-miR-128-3p, oan-miR-128-5p, oan-miR-129-3p, oan-miR-129-5p, oan-miR-130a, oan-miR-130b-3p, oan-miR-130b-5p, oan-miR-130c-3p, oan-miR-130c-5p, oan-miR-1325, oan-miR-1326, oan-miR-1327-3p, oan-miR-1327-5p, oan-miR-1328, oan-miR-1329-3p, oan-miR-1329-5p, oan-miR-1330, oan-miR-1331, oan-miR-1332-3p, oan-miR-1332-5p, oan-miR-1333, oan-miR-1334, oan-miR-1335, oan-miR-1336, oan-miR-1337, oan-miR-1338-3p, oan-miR-1338-5p, oan-miR-1339-3p, oan-miR-1339-5p, oan-miR-133a-3p, oan-miR-133a-5p, oan-miR-133b-3p, oan-miR-133b-5p, oan-miR-133c, oan-miR-1340-3p, oan-miR-1340-5p, oan-miR-1341, oan-miR-1342, oan-miR-1343-3p, oan-miR-1343-5p, oan-miR-1344, oan-miR-1345, oan-miR-1346, oan-miR-1347, oan-miR-1348, oan-miR-1349, oan-miR-1350, oan-miR-1351-3p, oan-miR-1351-5p, oan-miR-1352, oan-miR-1353, oan-miR-1354-3p, oan-miR-1354-5p, oan-miR-1355-3p, oan-miR-1355-5p, oan-miR-1356, oan-miR-1357, oan-miR-1358, oan-miR-1359, oan-miR-135a-3p, oan-miR-135b-1-3p, oan-miR-135b-2-3p, oan-miR-135b-5p, oan-miR-1360, oan-miR-1361-3p, oan-miR-1361-5p, oan-miR-1362-3p, oan-miR-1362-5p, oan-miR-1363-3p, oan-miR-1363-5p, oan-miR-1364, oan-miR-1365-3p, oan-miR-1365-5p, oan-miR-1366, oan-miR-1367-3p, oan-miR-1367-5p, oan-miR-1368, oan-miR-1369, oan-miR-1370, oan-miR-1371, oan-miR-1372, oan-miR-1373, oan-miR-1374, oan-miR-1375-3p, oan-miR-1375-5p, oan-miR-1376-3p, oan-miR-1376-5p, oan-miR-1377, oan-miR-1378, oan-miR-1379, oan-miR-137a-3p, oan-miR-137a-5p, oan-miR-137b-3p, oan-miR-137b-5p, oan-miR-138-3p, oan-miR-138-5p, oan-miR-1380-3p, oan-miR-1380-5p, oan-miR-1381-3p, oan-miR-1381-5p, oan-miR-1382, oan-miR-1383, oan-miR-1384, oan-miR-1385, oan-miR-1386, oan-miR-1387, oan-miR-1388-3p, oan-miR-1388-5p, oan-miR-1389-3p, oan-miR-1389-5p, oan-miR-139-3p, oan-miR-139-5p, oan-miR-1390-3p, oan-miR-1390-5p, oan-miR-1391-3p, oan-miR-1391-5p, oan-miR-1392-3p, oan-miR-1392-5p, oan-miR-1393, oan-miR-1394, oan-miR-1395-3p, oan-miR-1395-5p, oan-miR-1396, oan-miR-1397-3p, oan-miR-1397-5p, oan-miR-

1398-3p, oan-miR-1398-5p, oan-miR-1399, oan-miR-140-3p, oan-miR-140-5p, oan-miR-1400-3p, oan-miR-1400-5p, oan-miR-1401-3p, oan-miR-1401-5p, oan-miR-1402, oan-miR-1403, oan-miR-1404, oan-miR-1405-3p, oan-miR-1405-5p, oan-miR-1406-3p, oan-miR-1406-5p, oan-miR-1407, oan-miR-1408, oan-miR-1409-3p, oan-miR-1409-5p, oan-miR-1410, oan-miR-1411, oan-miR-1412, oan-miR-1413-3p, oan-miR-1413-5p, oan-miR-1414-3p, oan-miR-1414-5p, oan-miR-1415, oan-miR-1416, oan-miR-1417-3p, oan-miR-1417-5p, oan-miR-1418-3p, oan-miR-1418-5p, oan-miR-1419a-3p, oan-miR-1419a-5p, oan-miR-1419b-1-3p, oan-miR-1419b-2-3p, oan-miR-1419b-5p, oan-miR-1419c-3p, oan-miR-1419c-5p, oan-miR-1419d-3p, oan-miR-1419d-5p, oan-miR-1419e-3p, oan-miR-1419e-5p, oan-miR-1419f-3p, oan-miR-1419f-5p, oan-miR-1419g-3p, oan-miR-1419g-5p, oan-miR-142-3p, oan-miR-142-5p, oan-miR-1420a-3p, oan-miR-1420a-5p, oan-miR-1420b-3p, oan-miR-1420b-5p, oan-miR-1420c-3p, oan-miR-1420c-5p, oan-miR-1420d-3p, oan-miR-1420d-5p, oan-miR-1420e-3p, oan-miR-1420e-5p, oan-miR-1420f, oan-miR-1420g-3p, oan-miR-1420g-5p, oan-miR-1421a-3p, oan-miR-1421a-5p, oan-miR-1421aa-3p, oan-miR-1421aa-5p, oan-miR-1421ab-2-3p, oan-miR-1421ab-3p, oan-miR-1421ab-5p, oan-miR-1421ac-2-3p, oan-miR-1421ac-3p, oan-miR-1421ac-5p, oan-miR-1421ad-3p, oan-miR-1421ad-5p, oan-miR-1421ae, oan-miR-1421af-3p, oan-miR-1421af-5p, oan-miR-1421ag-3p, oan-miR-1421ag-5p, oan-miR-1421ah-3p, oan-miR-1421ah-5p, oan-miR-1421ai-3p, oan-miR-1421ai-5p, oan-miR-1421aj-3p, oan-miR-1421aj-5p, oan-miR-1421ak-3p, oan-miR-1421ak-5p, oan-miR-1421al-3p, oan-miR-1421al-5p, oan-miR-1421am, oan-miR-1421an-3p, oan-miR-1421an-5p, oan-miR-1421b-3p, oan-miR-1421b-5p, oan-miR-1421c-3p, oan-miR-1421c-5p, oan-miR-1421d-3p, oan-miR-1421d-5p, oan-miR-1421e-3p, oan-miR-1421e-5p, oan-miR-1421f-3p, oan-miR-1421f-5p, oan-miR-1421g-1-3p, oan-miR-1421g-2-3p, oan-miR-1421g-5p, oan-miR-1421h-3p, oan-miR-1421h-5p, oan-miR-1421i-1-3p, oan-miR-1421i-2-3p, oan-miR-1421i-3-3p, oan-miR-1421i-5p, oan-miR-1421j-3p, oan-miR-1421j-5p, oan-miR-1421k-1-3p, oan-miR-1421k-3p, oan-miR-1421k-5p, oan-miR-1421l-1-3p, oan-miR-1421l-2-3p, oan-miR-1421l-5p, oan-miR-1421m-3p, oan-miR-1421m-5p, oan-miR-1421n-1-3p, oan-miR-1421n-2-3p, oan-miR-1421n-5p, oan-miR-1421o-3p, oan-miR-1421o-5p, oan-miR-1421p-3p, oan-miR-1421p-5p, oan-miR-1421q-3p, oan-miR-1421q-5p, oan-miR-1421r-3p, oan-miR-1421r-5p, oan-miR-1421s-3p, oan-miR-1421s-5p, oan-miR-1421t-3p, oan-miR-1421t-5p, oan-miR-1421u-5p, oan-miR-1421v-3p, oan-miR-1421v-5p, oan-miR-1421w-3p, oan-miR-1421w-5p, oan-miR-1421x-3p, oan-miR-1421x-5p, oan-miR-1421y-2-3p, oan-miR-1421y-3-3p, oan-miR-1421y-5p, oan-miR-1421z-3p, oan-miR-1421z-5p, oan-miR-1422a-3p, oan-miR-1422a-5p, oan-miR-1422b-1-5p, oan-miR-1422b-2-5p, oan-miR-1422b-3p, oan-

miR-1422c-3p, oan-miR-1422c-5p, oan-miR-1422d-3p, oan-miR-1422e-3p, oan-miR-1422e-5p, oan-miR-1422f-3p, oan-miR-1422f-5p, oan-miR-1422g-3p, oan-miR-1422g-5p, oan-miR-1422h-3p, oan-miR-1422h-5p, oan-miR-1422i-3p, oan-miR-1422i-5p, oan-miR-1422j-3p, oan-miR-1422j-5p, oan-miR-1422k-3p, oan-miR-1422k-5p, oan-miR-1422l, oan-miR-1422m-3p, oan-miR-1422m-5p, oan-miR-1422n-3p, oan-miR-1422n-5p, oan-miR-1422o-3p, oan-miR-1422o-5p, oan-miR-1422p-3p, oan-miR-1422p-5p, oan-miR-1422q-3p, oan-miR-1422q-5p, oan-miR-143-3p, oan-miR-143-5p, oan-miR-144-3p, oan-miR-144-5p, oan-miR-145-3p, oan-miR-145-5p, oan-miR-146a-3p, oan-miR-146a-5p, oan-miR-146b-3p, oan-miR-146b-5p, oan-miR-147, oan-miR-148-3p, oan-miR-148-5p, oan-miR-150-3p, oan-miR-150-5p, oan-miR-153-1-5p, oan-miR-153-2-5p, oan-miR-153-3p, oan-miR-155-3p, oan-miR-155-5p, oan-miR-15a-3p, oan-miR-15a-5p, oan-miR-15b-3p, oan-miR-15b-5p, oan-miR-15c-3p, oan-miR-15c-5p, oan-miR-16a-3p, oan-miR-16a-5p, oan-miR-16b-3p, oan-miR-16b-5p, oan-miR-16c-3p, oan-miR-16c-5p, oan-miR-17-3p, oan-miR-17-5p, oan-miR-18-3p, oan-miR-18-5p, oan-miR-181a-1-3p, oan-miR-181a-2-3p, oan-miR-181a-3-3p, oan-miR-181a-5p, oan-miR-181b-1-3p, oan-miR-181b-2-3p, oan-miR-181b-5p, oan-miR-181c-3p, oan-miR-181c-5p, oan-miR-182-3p, oan-miR-182-5p, oan-miR-183, oan-miR-184, oan-miR-186-3p, oan-miR-186-5p, oan-miR-187-3p, oan-miR-187-5p, oan-miR-190a-3p, oan-miR-190a-5p, oan-miR-190b, oan-miR-191-3p, oan-miR-191-5p, oan-miR-192-3p, oan-miR-192-5p, oan-miR-193-3p, oan-miR-193-5p, oan-miR-194-3p, oan-miR-194-5p, oan-miR-196a-3p, oan-miR-196a-5p, oan-miR-196b-3p, oan-miR-196b-5p, oan-miR-199-3p, oan-miR-199-5p, oan-miR-19a-3p, oan-miR-19a-5p, oan-miR-19b-1-5p, oan-miR-19b-2-5p, oan-miR-19b-3p, oan-miR-1a-3p, oan-miR-1a-5p, oan-miR-1b, oan-miR-200a-3p, oan-miR-200a-5p, oan-miR-200b-3p, oan-miR-200b-5p, oan-miR-204-3p, oan-miR-204-5p, oan-miR-205-3p, oan-miR-205-5p, oan-miR-206-3p, oan-miR-206-5p, oan-miR-208-3p, oan-miR-208-5p, oan-miR-20a-1-3p, oan-miR-20a-2-3p, oan-miR-20a-5p, oan-miR-20b-3p, oan-miR-20b-5p, oan-miR-21-3p, oan-miR-21-5p, oan-miR-214-3p, oan-miR-214-5p, oan-miR-215-3p, oan-miR-215-5p, oan-miR-216a-3p, oan-miR-216a-5p, oan-miR-216b-3p, oan-miR-216b-5p, oan-miR-217-3p, oan-miR-217-5p, oan-miR-218-3p, oan-miR-218-5p, oan-miR-219-3p, oan-miR-219-5p, oan-miR-22-3p, oan-miR-22-5p, oan-miR-221-3p, oan-miR-221-5p, oan-miR-222a-3p, oan-miR-222a-5p, oan-miR-222b-3p, oan-miR-222b-5p, oan-miR-223-3p, oan-miR-223-5p, oan-miR-23a-3p, oan-miR-23a-5p, oan-miR-23b-3p, oan-miR-23b-5p, oan-miR-24-1-5p, oan-miR-24-2-5p, oan-miR-24-3p, oan-miR-26-1-3p, oan-miR-26-2-3p, oan-miR-26-5p, oan-miR-27a-3p, oan-miR-27a-5p, oan-miR-27b-3p, oan-miR-27b-5p, oan-miR-2985-3p, oan-miR-2985-5p, oan-miR-29a-1-5p, oan-miR-29a-2-5p, oan-miR-29a-3p, oan-miR-29b-3p, oan-miR-29b-5p,

oan-miR-301-3p, oan-miR-301-5p, oan-miR-302-3p, oan-miR-302-5p, oan-miR-30a-3p, oan-miR-30a-5p, oan-miR-30b-3p, oan-miR-30b-5p, oan-miR-30c-1-3p, oan-miR-30c-2-3p, oan-miR-30c-5p, oan-miR-30d-3p, oan-miR-30d-5p, oan-miR-30e-3p, oan-miR-30e-5p, oan-miR-30f, oan-miR-31-3p, oan-miR-31-5p, oan-miR-32-3p, oan-miR-32-5p, oan-miR-33-5p, oan-miR-33a-3p, oan-miR-33b-3p, oan-miR-34a-3p, oan-miR-34a-5p, oan-miR-34b-3p, oan-miR-34b-5p, oan-miR-363-3p, oan-miR-363-5p, oan-miR-365-1-5p, oan-miR-365-2-5p, oan-miR-365-3p, oan-miR-383-3p, oan-miR-383-5p, oan-miR-425-3p, oan-miR-425-5p, oan-miR-429-3p, oan-miR-429-5p, oan-miR-449a, oan-miR-449b-3p, oan-miR-449b-5p, oan-miR-449c, oan-miR-451, oan-miR-454-3p, oan-miR-454-5p, oan-miR-458-3p, oan-miR-458-5p, oan-miR-460-3p, oan-miR-460-5p, oan-miR-490-3p, oan-miR-490-5p, oan-miR-499-3p, oan-miR-499-5p, oan-miR-551-3p, oan-miR-551-5p, oan-miR-590-3p, oan-miR-590-5p, oan-miR-7-1-3p, oan-miR-7-3p, oan-miR-7-5p, oan-miR-7400-3p, oan-miR-7400-5p, oan-miR-7401-3p, oan-miR-7401-5p, oan-miR-7402-3p, oan-miR-7402-5p, oan-miR-7403-3p, oan-miR-7403-5p, oan-miR-7404-3p, oan-miR-7404-5p, oan-miR-7405-3p, oan-miR-7405-5p, oan-miR-7406-3p, oan-miR-7406-5p, oan-miR-7407-3p, oan-miR-7407-5p, oan-miR-7408-3p, oan-miR-7408-5p, oan-miR-7409-3p, oan-miR-7409-5p, oan-miR-7410-3p, oan-miR-7410-5p, oan-miR-7411-3p, oan-miR-7411-5p, oan-miR-7412-3p, oan-miR-7412-5p, oan-miR-7413-3p, oan-miR-7413-5p, oan-miR-7414-3p, oan-miR-7414-5p, oan-miR-7415-3p, oan-miR-7415-5p, oan-miR-7416-3p, oan-miR-7416-5p, oan-miR-7417-3p, oan-miR-7417-5p, oan-miR-7418-3p, oan-miR-7418-5p, oan-miR-7419-3p, oan-miR-7419-5p, oan-miR-7420-3p, oan-miR-7420-5p, oan-miR-7421-3p, oan-miR-7421-5p, oan-miR-7422a-3p, oan-miR-7422a-5p, oan-miR-7422b-3p, oan-miR-7422b-5p, oan-miR-7423-3p, oan-miR-7423-5p, oan-miR-7424-3p, oan-miR-7424-5p, oan-miR-7425-3p, oan-miR-7425-5p, oan-miR-7426-3p, oan-miR-7426-5p, oan-miR-7427-3p, oan-miR-7427-5p, oan-miR-7428-3p, oan-miR-7428-5p, oan-miR-7429-3p, oan-miR-7429-5p, oan-miR-7430-3p, oan-miR-7430-5p, oan-miR-7431-3p, oan-miR-7431-5p, oan-miR-7432-3p, oan-miR-7432-5p, oan-miR-7433-3p, oan-miR-7433-5p, oan-miR-7434-3p, oan-miR-7434-5p, oan-miR-7435-3p, oan-miR-7435-5p, oan-miR-7436-3p, oan-miR-7436-5p, oan-miR-802-3p, oan-miR-802-5p, oan-miR-873-3p, oan-miR-873-5p, oan-miR-875-3p, oan-miR-875-5p, oan-miR-9-3p, oan-miR-9-5p, oan-miR-92a-1-5p, oan-miR-92a-2-5p, oan-miR-92a-3p, oan-miR-92b, oan-miR-92c, oan-miR-92d, oan-miR-96-3p, oan-miR-96-5p, oan-miR-98, oan-miR-99-3p, oan-miR-99-5p, oar-let-7a, oar-let-7b, oar-let-7c, oar-let-7d, oar-let-7f, oar-let-7g, oar-let-7i, oar-miR-103, oar-miR-106a, oar-miR-106b, oar-miR-107, oar-miR-10a, oar-miR-10b, oar-miR-1185-3p, oar-miR-1185-5p, oar-miR-1193-3p, oar-miR-1193-5p, oar-miR-1197-3p, oar-miR-1197-5p,

oar-miR-125b, oar-miR-127, oar-miR-133, oar-miR-134-3p, oar-miR-134-5p, oar-miR-136, oar-miR-143, oar-miR-148a, oar-miR-150, oar-miR-152, oar-miR-154a-3p, oar-miR-154a-5p, oar-miR-154b-3p, oar-miR-154b-5p, oar-miR-16b, oar-miR-17-5p, oar-miR-181a, oar-miR-191, oar-miR-194, oar-miR-199a-3p, oar-miR-19b, oar-miR-200a, oar-miR-200b, oar-miR-200c, oar-miR-21, oar-miR-218a, oar-miR-22-3p, oar-miR-221, oar-miR-23a, oar-miR-23b, oar-miR-25, oar-miR-26a, oar-miR-26b, oar-miR-27a, oar-miR-299-3p, oar-miR-299-5p, oar-miR-29a, oar-miR-29b, oar-miR-30a-3p, oar-miR-30a-5p, oar-miR-30b, oar-miR-30c, oar-miR-30d, oar-miR-323a-3p, oar-miR-323a-5p, oar-miR-323b, oar-miR-323c, oar-miR-329a-3p, oar-miR-329a-5p, oar-miR-329b-3p, oar-miR-329b-5p, oar-miR-362, oar-miR-369-3p, oar-miR-369-5p, oar-miR-370-3p, oar-miR-370-5p, oar-miR-374a, oar-miR-374b, oar-miR-376a-3p, oar-miR-376a-5p, oar-miR-376b-3p, oar-miR-376b-5p, oar-miR-376c-3p, oar-miR-376c-5p, oar-miR-376d, oar-miR-376e-3p, oar-miR-376e-5p, oar-miR-377-3p, oar-miR-377-5p, oar-miR-379-3p, oar-miR-379-5p, oar-miR-380-3p, oar-miR-380-5p, oar-miR-381-3p, oar-miR-381-5p, oar-miR-382-3p, oar-miR-382-5p, oar-miR-3955-3p, oar-miR-3955-5p, oar-miR-3956-3p, oar-miR-3956-5p, oar-miR-3957-3p, oar-miR-3957-5p, oar-miR-3958-3p, oar-miR-3958-5p, oar-miR-3959-3p, oar-miR-3959-5p, oar-miR-409-3p, oar-miR-409-5p, oar-miR-410-3p, oar-miR-410-5p, oar-miR-411a-3p, oar-miR-411a-5p, oar-miR-411b-3p, oar-miR-411b-5p, oar-miR-412-3p, oar-miR-412-5p, oar-miR-431, oar-miR-432, oar-miR-433-3p, oar-miR-433-5p, oar-miR-485-3p, oar-miR-485-5p, oar-miR-487a-3p, oar-miR-487a-5p, oar-miR-487b-3p, oar-miR-487b-5p, oar-miR-493-3p, oar-miR-493-5p, oar-miR-494-3p, oar-miR-494-5p, oar-miR-495-3p, oar-miR-495-5p, oar-miR-496-3p, oar-miR-496-5p, oar-miR-539-3p, oar-miR-539-5p, oar-miR-541-3p, oar-miR-541-5p, oar-miR-543-3p, oar-miR-543-5p, oar-miR-544-3p, oar-miR-544-5p, oar-miR-654-3p, oar-miR-654-5p, oar-miR-655-3p, oar-miR-655-5p, oar-miR-665-3p, oar-miR-665-5p, oar-miR-668-3p, oar-miR-668-5p, oar-miR-758-3p, oar-miR-758-5p, oar-miR-99a, ocu-let-7a-2-3p, ocu-let-7a-3p, ocu-let-7a-5p, ocu-let-7b-3p, ocu-let-7b-5p, ocu-let-7c-3p, ocu-let-7c-5p, ocu-let-7d-3p, ocu-let-7d-5p, ocu-let-7f-2-3p, ocu-let-7f-3p, ocu-let-7f-5p, ocu-let-7g-3p, ocu-let-7g-5p, ocu-let-7i-3p, ocu-let-7i-5p, ocu-miR-1-3p, ocu-miR-1-5p, ocu-miR-100-3p, ocu-miR-100-5p, ocu-miR-101-2-5p, ocu-miR-101-3p, ocu-miR-101-5p, ocu-miR-103a-2-5p, ocu-miR-103a-3p, ocu-miR-103a-5p, ocu-miR-105a-2-3p, ocu-miR-105a-3p, ocu-miR-105a-5p, ocu-miR-105b-3p, ocu-miR-105b-5p, ocu-miR-106a-3p, ocu-miR-106a-5p, ocu-miR-106b-3p, ocu-miR-106b-5p, ocu-miR-107-3p, ocu-miR-107-5p, ocu-miR-10a-3p, ocu-miR-10a-5p, ocu-miR-10b-3p, ocu-miR-10b-5p, ocu-miR-1197-3p, ocu-miR-1197-5p, ocu-miR-12090-3p, ocu-miR-12090-5p, ocu-miR-12091-3p, ocu-miR-12091-5p, ocu-miR-12092-3p, ocu-miR-12092-

5p, ocu-miR-12093-3p, ocu-miR-12093-5p, ocu-miR-12094-3p, ocu-miR-12094-5p, ocu-miR-12095-3p, ocu-miR-12095-5p, ocu-miR-122-3p, ocu-miR-122-5p, ocu-miR-124-3p, ocu-miR-124-5p, ocu-miR-1249-3p, ocu-miR-1249-5p, ocu-miR-1251-3p, ocu-miR-1251-5p, ocu-miR-125b-2-3p, ocu-miR-125b-3p, ocu-miR-125b-5p, ocu-miR-1264-3p, ocu-miR-1264-5p, ocu-miR-127-3p, ocu-miR-127-5p, ocu-miR-1277-3p, ocu-miR-1277-5p, ocu-miR-128a-3p, ocu-miR-128a-5p, ocu-miR-128b-3p, ocu-miR-128b-5p, ocu-miR-129-2-3p, ocu-miR-129-3p, ocu-miR-129-5p, ocu-miR-1296-3p, ocu-miR-1296-5p, ocu-miR-1298-3p, ocu-miR-1298-5p, ocu-miR-1307-3p, ocu-miR-1307-5p, ocu-miR-130a-3p, ocu-miR-130a-5p, ocu-miR-130b-3p, ocu-miR-130b-5p, ocu-miR-133a-3p, ocu-miR-133a-5p, ocu-miR-133b-3p, ocu-miR-133b-5p, ocu-miR-134-3p, ocu-miR-134-5p, ocu-miR-1343-3p, ocu-miR-1343-5p, ocu-miR-135a-2-3p, ocu-miR-135a-3p, ocu-miR-135a-5p, ocu-miR-135b-3p, ocu-miR-135b-5p, ocu-miR-136-3p, ocu-miR-136-5p, ocu-miR-137-3p, ocu-miR-137-5p, ocu-miR-138-2-3p, ocu-miR-138-3p, ocu-miR-138-5p, ocu-miR-139-3p, ocu-miR-139-5p, ocu-miR-140-3p, ocu-miR-140-5p, ocu-miR-141-3p, ocu-miR-141-5p, ocu-miR-142-3p, ocu-miR-142-5p, ocu-miR-143-3p, ocu-miR-143-5p, ocu-miR-144-3p, ocu-miR-144-5p, ocu-miR-145-3p, ocu-miR-145-5p, ocu-miR-146a-3p, ocu-miR-146a-5p, ocu-miR-146b-3p, ocu-miR-146b-5p, ocu-miR-147-3p, ocu-miR-147-5p, ocu-miR-148a-3p, ocu-miR-148a-5p, ocu-miR-148b-3p, ocu-miR-148b-5p, ocu-miR-150-3p, ocu-miR-150-5p, ocu-miR-151-3p, ocu-miR-151-5p, ocu-miR-152-3p, ocu-miR-152-5p, ocu-miR-153-3p, ocu-miR-153-5p, ocu-miR-154-3p, ocu-miR-154-5p, ocu-miR-155-3p, ocu-miR-155-5p, ocu-miR-15a-3p, ocu-miR-15a-5p, ocu-miR-15b-3p, ocu-miR-15b-5p, ocu-miR-16a-3p, ocu-miR-16a-5p, ocu-miR-16b-3p, ocu-miR-16b-5p, ocu-miR-17-3p, ocu-miR-17-5p, ocu-miR-181a-2-3p, ocu-miR-181a-3p, ocu-miR-181a-5p, ocu-miR-181b-2-3p, ocu-miR-181b-3p, ocu-miR-181b-5p, ocu-miR-181c-3p, ocu-miR-181c-5p, ocu-miR-181d-3p, ocu-miR-181d-5p, ocu-miR-182-3p, ocu-miR-182-5p, ocu-miR-183-3p, ocu-miR-183-5p, ocu-miR-184-3p, ocu-miR-184-5p, ocu-miR-185-3p, ocu-miR-185-5p, ocu-miR-186-3p, ocu-miR-186-5p, ocu-miR-187-3p, ocu-miR-187-5p, ocu-miR-188-3p, ocu-miR-188-5p, ocu-miR-18a-3p, ocu-miR-18a-5p, ocu-miR-18b-3p, ocu-miR-18b-5p, ocu-miR-190a-3p, ocu-miR-190a-5p, ocu-miR-190b-3p, ocu-miR-190b-5p, ocu-miR-191-3p, ocu-miR-191-5p, ocu-miR-1911-3p, ocu-miR-1911-5p, ocu-miR-193a-3p, ocu-miR-193a-5p, ocu-miR-193b-3p, ocu-miR-193b-5p, ocu-miR-194-3p, ocu-miR-194-5p, ocu-miR-195-3p, ocu-miR-195-5p, ocu-miR-196a-2-3p, ocu-miR-196a-2-5p, ocu-miR-196a-3p, ocu-miR-196a-5p, ocu-miR-196b-3p, ocu-miR-196b-5p, ocu-miR-197-3p, ocu-miR-197-5p, ocu-miR-199a-3p, ocu-miR-199a-5p, ocu-miR-19a-3p, ocu-miR-19a-5p, ocu-miR-19b-2-5p, ocu-miR-19b-3p, ocu-miR-19b-5p, ocu-miR-200c-3p, ocu-miR-200c-5p, ocu-miR-204-

3p, ocu-miR-204-5p, ocu-miR-205-3p, ocu-miR-205-5p, ocu-miR-206-3p, ocu-miR-206-5p, ocu-miR-208a-3p, ocu-miR-208a-5p, ocu-miR-208b-3p, ocu-miR-208b-5p, ocu-miR-20a-3p, ocu-miR-20a-5p, ocu-miR-20b-3p, ocu-miR-20b-5p, ocu-miR-21-3p, ocu-miR-21-5p, ocu-miR-211-3p, ocu-miR-211-5p, ocu-miR-212-3p, ocu-miR-212-5p, ocu-miR-214-3p, ocu-miR-214-5p, ocu-miR-215-3p, ocu-miR-215-5p, ocu-miR-216a-3p, ocu-miR-216a-5p, ocu-miR-216b-3p, ocu-miR-216b-5p, ocu-miR-217-3p, ocu-miR-217-5p, ocu-miR-218-2-3p, ocu-miR-218-3p, ocu-miR-218-5p, ocu-miR-219a-3p, ocu-miR-219a-5p, ocu-miR-219b-3p, ocu-miR-219b-5p, ocu-miR-22-3p, ocu-miR-22-5p, ocu-miR-221-3p, ocu-miR-221-5p, ocu-miR-222-3p, ocu-miR-222-5p, ocu-miR-223-3p, ocu-miR-223-5p, ocu-miR-224-3p, ocu-miR-224-5p, ocu-miR-2355-3p, ocu-miR-2355-5p, ocu-miR-2387-3p, ocu-miR-2387-5p, ocu-miR-23b-3p, ocu-miR-23b-5p, ocu-miR-24-2-5p, ocu-miR-24-3p, ocu-miR-24-5p, ocu-miR-25-3p, ocu-miR-25-5p, ocu-miR-26a-3p, ocu-miR-26a-5p, ocu-miR-26b-3p, ocu-miR-26b-5p, ocu-miR-27b-3p, ocu-miR-27b-5p, ocu-miR-28-3p, ocu-miR-28-5p, ocu-miR-299-3p, ocu-miR-299-5p, ocu-miR-29a-3p, ocu-miR-29a-5p, ocu-miR-29b-2-5p, ocu-miR-29b-3p, ocu-miR-29b-5p, ocu-miR-29c-3p, ocu-miR-29c-5p, ocu-miR-301a-3p, ocu-miR-301a-5p, ocu-miR-301b-3p, ocu-miR-301b-5p, ocu-miR-302a-3p, ocu-miR-302a-5p, ocu-miR-302b-3p, ocu-miR-302b-5p, ocu-miR-302c-3p, ocu-miR-302c-5p, ocu-miR-302d-3p, ocu-miR-302d-5p, ocu-miR-3059-3p, ocu-miR-3059-5p, ocu-miR-3085-3p, ocu-miR-3085-5p, ocu-miR-30a-3p, ocu-miR-30a-5p, ocu-miR-30b-3p, ocu-miR-30b-5p, ocu-miR-30c-2-3p, ocu-miR-30c-3p, ocu-miR-30c-5p, ocu-miR-30d-3p, ocu-miR-30d-5p, ocu-miR-30e-3p, ocu-miR-30e-5p, ocu-miR-31-3p, ocu-miR-31-5p, ocu-miR-32-3p, ocu-miR-32-5p, ocu-miR-323a-3p, ocu-miR-323a-5p, ocu-miR-324-3p, ocu-miR-324-5p, ocu-miR-325-3p, ocu-miR-325-5p, ocu-miR-326-3p, ocu-miR-326-5p, ocu-miR-328-3p, ocu-miR-328-5p, ocu-miR-329-3p, ocu-miR-329-5p, ocu-miR-331-3p, ocu-miR-331-5p, ocu-miR-335-3p, ocu-miR-335-5p, ocu-miR-337-3p, ocu-miR-337-5p, ocu-miR-33a-3p, ocu-miR-33a-5p, ocu-miR-340-3p, ocu-miR-340-5p, ocu-miR-342-3p, ocu-miR-342-5p, ocu-miR-346-5p, ocu-miR-34a-3p, ocu-miR-34a-5p, ocu-miR-34b-3p, ocu-miR-34b-5p, ocu-miR-34c-3p, ocu-miR-34c-5p, ocu-miR-350-3p, ocu-miR-350-5p, ocu-miR-361-3p, ocu-miR-361-5p, ocu-miR-3613-3p, ocu-miR-3613-5p, ocu-miR-362-3p, ocu-miR-362-5p, ocu-miR-363-3p, ocu-miR-363-5p, ocu-miR-365-2-5p, ocu-miR-365-3p, ocu-miR-365-5p, ocu-miR-367-3p, ocu-miR-367-5p, ocu-miR-369-3p, ocu-miR-369-5p, ocu-miR-370-3p, ocu-miR-370-5p, ocu-miR-371-3p, ocu-miR-371-5p, ocu-miR-373-3p, ocu-miR-374a-3p, ocu-miR-374a-5p, ocu-miR-374b-3p, ocu-miR-374b-5p, ocu-miR-375-3p, ocu-miR-375-5p, ocu-miR-376a-3p, ocu-miR-376a-5p, ocu-miR-376b-3p, ocu-miR-376b-5p, ocu-miR-376c-2-3p, ocu-miR-376c-3p, ocu-miR-376c-5p,

ocu-miR-377-3p, ocu-miR-377-5p, ocu-miR-378-3p, ocu-miR-378-5p, ocu-miR-379-3p, ocu-miR-379-5p, ocu-miR-381-3p, ocu-miR-381-5p, ocu-miR-382-3p, ocu-miR-382-5p, ocu-miR-383-3p, ocu-miR-383-5p, ocu-miR-384-3p, ocu-miR-384-5p, ocu-miR-409-3p, ocu-miR-409-5p, ocu-miR-410-3p, ocu-miR-410-5p, ocu-miR-411-3p, ocu-miR-411-5p, ocu-miR-421-3p, ocu-miR-421-5p, ocu-miR-423-3p, ocu-miR-423-5p, ocu-miR-424-3p, ocu-miR-424-5p, ocu-miR-425-3p, ocu-miR-425-5p, ocu-miR-432-3p, ocu-miR-432-5p, ocu-miR-433-3p, ocu-miR-433-5p, ocu-miR-448-3p, ocu-miR-448-5p, ocu-miR-449a-3p, ocu-miR-449a-5p, ocu-miR-449b-3p, ocu-miR-449b-5p, ocu-miR-450a-2-3p, ocu-miR-450a-3p, ocu-miR-450a-5p, ocu-miR-450b-3p, ocu-miR-450b-5p, ocu-miR-451-5p, ocu-miR-452-3p, ocu-miR-452-5p, ocu-miR-455-3p, ocu-miR-455-5p, ocu-miR-485-3p, ocu-miR-485-5p, ocu-miR-486-3p, ocu-miR-486-5p, ocu-miR-487a-3p, ocu-miR-487a-5p, ocu-miR-487b-3p, ocu-miR-487b-5p, ocu-miR-488-3p, ocu-miR-488-5p, ocu-miR-489-3p, ocu-miR-489-5p, ocu-miR-490-3p, ocu-miR-490-5p, ocu-miR-491-3p, ocu-miR-491-5p, ocu-miR-495-3p, ocu-miR-495-5p, ocu-miR-496-3p, ocu-miR-496-5p, ocu-miR-497-3p, ocu-miR-497-5p, ocu-miR-498, ocu-miR-499-3p, ocu-miR-499-5p, ocu-miR-500-3p, ocu-miR-500-5p, ocu-miR-501-3p, ocu-miR-501-5p, ocu-miR-502a-3p, ocu-miR-502a-5p, ocu-miR-502b-3p, ocu-miR-502b-5p, ocu-miR-503-3p, ocu-miR-503-5p, ocu-miR-504-3p, ocu-miR-504-5p, ocu-miR-505-3p, ocu-miR-505-5p, ocu-miR-506-3p, ocu-miR-506-5p, ocu-miR-507-3p, ocu-miR-507-5p, ocu-miR-508-3p, ocu-miR-508-5p, ocu-miR-509a-3p, ocu-miR-509a-5p, ocu-miR-509b-3p, ocu-miR-509b-5p, ocu-miR-509c-3p, ocu-miR-509c-5p, ocu-miR-512a-3p, ocu-miR-512a-5p, ocu-miR-512b-3p, ocu-miR-512b-5p, ocu-miR-513-3p, ocu-miR-513-5p, ocu-miR-520e, ocu-miR-532-3p, ocu-miR-532-5p, ocu-miR-539-3p, ocu-miR-539-5p, ocu-miR-541-3p, ocu-miR-541-5p, ocu-miR-542-3p, ocu-miR-542-5p, ocu-miR-545-3p, ocu-miR-545-5p, ocu-miR-551b-3p, ocu-miR-551b-5p, ocu-miR-574-3p, ocu-miR-574-5p, ocu-miR-582-3p, ocu-miR-582-5p, ocu-miR-590-3p, ocu-miR-590-5p, ocu-miR-599-3p, ocu-miR-599-5p, ocu-miR-628-3p, ocu-miR-628-5p, ocu-miR-652-3p, ocu-miR-652-5p, ocu-miR-6529-3p, ocu-miR-6529-5p, ocu-miR-653-3p, ocu-miR-653-5p, ocu-miR-654-3p, ocu-miR-654-5p, ocu-miR-655-3p, ocu-miR-655-5p, ocu-miR-656-3p, ocu-miR-656-5p, ocu-miR-660-3p, ocu-miR-660-5p, ocu-miR-670-3p, ocu-miR-670-5p, ocu-miR-671-3p, ocu-miR-671-5p, ocu-miR-672-3p, ocu-miR-672-5p, ocu-miR-676-3p, ocu-miR-676-5p, ocu-miR-708-3p, ocu-miR-708-5p, ocu-miR-7180-3p, ocu-miR-7180-5p, ocu-miR-744-3p, ocu-miR-744-5p, ocu-miR-758-3p, ocu-miR-758-5p, ocu-miR-760-3p, ocu-miR-760-5p, ocu-miR-7a-3p, ocu-miR-7a-5p, ocu-miR-802-3p, ocu-miR-802-5p, ocu-miR-872-3p, ocu-miR-872-5p, ocu-miR-873-3p, ocu-miR-873-5p, ocu-miR-874-3p, ocu-miR-874-5p, ocu-miR-875-3p, ocu-

miR-875-5p, ocu-miR-885-3p, ocu-miR-885-5p, ocu-miR-889-3p, ocu-miR-889-5p, ocu-miR-9-3p, ocu-miR-9-5p, ocu-miR-92a-2-5p, ocu-miR-92a-3p, ocu-miR-92a-5p, ocu-miR-93-3p, ocu-miR-93-5p, ocu-miR-96-3p, ocu-miR-96-5p, ocu-miR-98-3p, ocu-miR-98-5p, ocu-miR-9851-3p, ocu-miR-9851-5p, ocu-miR-99a-3p, ocu-miR-99a-5p, odi-let-7a, odi-let-7b, odi-let-7c, odi-let-7d, odi-miR-124a, odi-miR-124b, odi-miR-1468, odi-miR-1469, odi-miR-1470, odi-miR-1471, odi-miR-1472, odi-miR-1473, odi-miR-1474, odi-miR-1475, odi-miR-1476-3p, odi-miR-1476-5p, odi-miR-1477, odi-miR-1478, odi-miR-1479, odi-miR-1480, odi-miR-1481, odi-miR-1482, odi-miR-1483-3p, odi-miR-1483-5p, odi-miR-1484, odi-miR-1485, odi-miR-1486, odi-miR-1487, odi-miR-1489, odi-miR-1490a, odi-miR-1490b, odi-miR-1491, odi-miR-1492, odi-miR-1493, odi-miR-1494, odi-miR-1495, odi-miR-1496, odi-miR-1497a, odi-miR-1497b, odi-miR-1497c, odi-miR-1497d, odi-miR-1497e, odi-miR-1497f, odi-miR-1497g, odi-miR-1497h, odi-miR-1498, odi-miR-1499, odi-miR-1500, odi-miR-1501, odi-miR-1502, odi-miR-1503, odi-miR-1504, odi-miR-1505, odi-miR-1506, odi-miR-1a, odi-miR-1b, odi-miR-1c, odi-miR-219, odi-miR-281, odi-miR-31, odi-miR-7, odi-miR-92a, odi-miR-92b, oga-let-7a, oga-let-7b, oga-let-7c, oga-let-7e, oga-let-7f, oga-let-7g, oga-let-7i, oga-miR-10, oga-miR-100, oga-miR-101, oga-miR-103a, oga-miR-103b, oga-miR-106b, oga-miR-107, oga-miR-10a, oga-miR-1247, oga-miR-125a, oga-miR-125b, oga-miR-127, oga-miR-128, oga-miR-1296, oga-miR-130a, oga-miR-132, oga-miR-136, oga-miR-138, oga-miR-1388, oga-miR-140, oga-miR-143, oga-miR-145, oga-miR-148a, oga-miR-148b, oga-miR-149, oga-miR-151, oga-miR-152, oga-miR-155, oga-miR-15a, oga-miR-15b, oga-miR-16, oga-miR-17, oga-miR-18, oga-miR-181a, oga-miR-181b, oga-miR-181c, oga-miR-181d, oga-miR-181e, oga-miR-182, oga-miR-184, oga-miR-185, oga-miR-186, oga-miR-190, oga-miR-191, oga-miR-192, oga-miR-193a, oga-miR-193b, oga-miR-195, oga-miR-196, oga-miR-196a, oga-miR-196b, oga-miR-197, oga-miR-199, oga-miR-19a, oga-miR-19b, oga-miR-21, oga-miR-210, oga-miR-212, oga-miR-214, oga-miR-218a, oga-miR-22, oga-miR-221, oga-miR-222, oga-miR-224, oga-miR-23a, oga-miR-23b, oga-miR-24, oga-miR-25, oga-miR-26a, oga-miR-26b, oga-miR-27a, oga-miR-27b, oga-miR-28a, oga-miR-28b, oga-miR-29a, oga-miR-29b, oga-miR-301a, oga-miR-30a, oga-miR-30b, oga-miR-30c, oga-miR-30d, oga-miR-30e, oga-miR-31, oga-miR-320a, oga-miR-330, oga-miR-340, oga-miR-342, oga-miR-34a, oga-miR-34b, oga-miR-34c, oga-miR-361, oga-miR-365, oga-miR-374a, oga-miR-378, oga-miR-381, oga-miR-409, oga-miR-410, oga-miR-411a, oga-miR-421, oga-miR-423, oga-miR-455, oga-miR-486, oga-miR-493, oga-miR-497, oga-miR-500, oga-miR-502b, oga-miR-505, oga-miR-532, oga-miR-574, oga-miR-582, oga-miR-615, oga-miR-6529, oga-miR-660, oga-miR-760, oga-miR-872, oga-miR-92a, oga-miR-93, oga-

miR-98, oga-miR-99a, oga-miR-99b, oha-let-7a, oha-let-7a-2-3p, oha-let-7a-3-3p, oha-let-7a-5p, oha-let-7b-3p, oha-let-7b-5p, oha-let-7c-1-3p, oha-let-7c-2-3p, oha-let-7c-3-3p, oha-let-7c-5p, oha-let-7d-3p, oha-let-7d-5p, oha-let-7e-3p, oha-let-7e-5p, oha-let-7f-1-3p, oha-let-7f-2-3p, oha-let-7f-5p, oha-let-7g-3p, oha-let-7g-5p, oha-let-7i-3p, oha-let-7i-5p, oha-miR-100-3p, oha-miR-100-5p, oha-miR-101a-3p, oha-miR-101a-5p, oha-miR-101b-3p, oha-miR-101b-5p, oha-miR-103a-3p, oha-miR-103a-5p, oha-miR-103b-3p, oha-miR-103b-5p, oha-miR-107-3p, oha-miR-107-5p, oha-miR-10a-3p, oha-miR-10a-5p, oha-miR-10b-3p, oha-miR-10b-5p, oha-miR-10c-3p, oha-miR-10c-5p, oha-miR-122-3p, oha-miR-122-5p, oha-miR-124, oha-miR-124-3p, oha-miR-124-4-3p, oha-miR-124-5p, oha-miR-125a-3p, oha-miR-125a-5p, oha-miR-125b-3p, oha-miR-125b-5p, oha-miR-126-3p, oha-miR-126-5p, oha-miR-128-3p, oha-miR-128-5p, oha-miR-129a-3p, oha-miR-129a-5p, oha-miR-129b, oha-miR-129b-3p, oha-miR-129b-5p, oha-miR-1306-3p, oha-miR-1306-5p, oha-miR-130a-3p, oha-miR-130a-5p, oha-miR-130b-3p, oha-miR-130b-5p, oha-miR-130c-3p, oha-miR-130c-5p, oha-miR-130d, oha-miR-132-3p, oha-miR-132-5p, oha-miR-1329-3p, oha-miR-1329-5p, oha-miR-133a-1-5p, oha-miR-133a-2-5p, oha-miR-133a-3-5p, oha-miR-133a-3p, oha-miR-133b-3p, oha-miR-133b-5p, oha-miR-135-1-3p, oha-miR-135-2-3p, oha-miR-135-3-3p, oha-miR-135-5p, oha-miR-137-3p, oha-miR-137-5p, oha-miR-138-1-3p, oha-miR-138-2-3p, oha-miR-138-5p, oha-miR-1388-3p, oha-miR-1388-5p, oha-miR-139-3p, oha-miR-139-5p, oha-miR-1397-3p, oha-miR-1397-5p, oha-miR-140-3p, oha-miR-140-5p, oha-miR-142-3p, oha-miR-142-5p, oha-miR-143-3p, oha-miR-143-5p, oha-miR-144-3p, oha-miR-144-5p, oha-miR-145-3p, oha-miR-145-5p, oha-miR-146b-3p, oha-miR-146b-5p, oha-miR-147-3p, oha-miR-147-5p, oha-miR-148a-3p, oha-miR-148a-5p, oha-miR-148b, oha-miR-150, oha-miR-153-1-5p, oha-miR-153-2-5p, oha-miR-153-3p, oha-miR-15a-3p, oha-miR-15a-5p, oha-miR-15b-3p, oha-miR-15b-5p, oha-miR-1641, oha-miR-1677b-3p, oha-miR-1677b-5p, oha-miR-16a-3p, oha-miR-16a-5p, oha-miR-16b-3p, oha-miR-16b-5p, oha-miR-17-3p, oha-miR-17-5p, oha-miR-1788-3p, oha-miR-1788-5p, oha-miR-1805-3p, oha-miR-1805-5p, oha-miR-181a-1-3p, oha-miR-181a-2-3p, oha-miR-181a-5p, oha-miR-181b-3p, oha-miR-181b-5p, oha-miR-181c-3p, oha-miR-181c-5p, oha-miR-182-3p, oha-miR-182-5p, oha-miR-183-3p, oha-miR-183-5p, oha-miR-18a-3p, oha-miR-18a-5p, oha-miR-18b-3p, oha-miR-18b-5p, oha-miR-1905, oha-miR-190a-3p, oha-miR-190a-5p, oha-miR-190b-3p, oha-miR-190b-5p, oha-miR-191-3p, oha-miR-191-5p, oha-miR-193-3p, oha-miR-193-5p, oha-miR-194-3p, oha-miR-194-5p, oha-miR-196a-3p, oha-miR-196a-5p, oha-miR-196b-3p, oha-miR-196b-5p, oha-miR-196c-3p, oha-miR-196c-5p, oha-miR-199a-3p, oha-miR-199a-5p, oha-miR-199b-3p, oha-miR-199b-5p, oha-miR-199c-3p, oha-miR-199c-5p, oha-miR-19a-3p, oha-miR-19a-

5p, oha-miR-19b-3p, oha-miR-19b-5p, oha-miR-1a-3p, oha-miR-1a-5p, oha-miR-1b-3p, oha-miR-1b-5p, oha-miR-1c-3p, oha-miR-1c-5p, oha-miR-1d-3p, oha-miR-1d-5p, oha-miR-200a, oha-miR-202-3p, oha-miR-202-5p, oha-miR-203-3p, oha-miR-203-5p, oha-miR-204-1-3p, oha-miR-204-2-3p, oha-miR-204-5p, oha-miR-205a-3p, oha-miR-205a-5p, oha-miR-205b-3p, oha-miR-205b-5p, oha-miR-206, oha-miR-208-3p, oha-miR-208-5p, oha-miR-20a-3p, oha-miR-20a-5p, oha-miR-20b-3p, oha-miR-20b-5p, oha-miR-21-3p, oha-miR-21-5p, oha-miR-210-3p, oha-miR-210-5p, oha-miR-212-3p, oha-miR-212-5p, oha-miR-215-3p, oha-miR-215-5p, oha-miR-216-3p, oha-miR-216-5p, oha-miR-217-5p, oha-miR-218-1-3p, oha-miR-218-2-3p, oha-miR-218-5p, oha-miR-2188-3p, oha-miR-2188-5p, oha-miR-219-1-3p, oha-miR-219-2-3p, oha-miR-219-5p, oha-miR-221-3p, oha-miR-221-5p, oha-miR-222a-3p, oha-miR-222a-5p, oha-miR-222b-3p, oha-miR-222b-5p, oha-miR-223-3p, oha-miR-223-5p, oha-miR-22a, oha-miR-22b, oha-miR-23a-3p, oha-miR-23a-5p, oha-miR-23b-3p, oha-miR-23b-5p, oha-miR-24-1-5p, oha-miR-24-2-5p, oha-miR-24-3p, oha-miR-26-1-3p, oha-miR-26-2-3p, oha-miR-26-3-3p, oha-miR-26-5p, oha-miR-27a-3p, oha-miR-27a-5p, oha-miR-27b-3p, oha-miR-27b-5p, oha-miR-2970-3p, oha-miR-2970-5p, oha-miR-2985a-2-3p, oha-miR-2985a-3p, oha-miR-2985a-5p, oha-miR-2985b-3p, oha-miR-2985b-5p, oha-miR-29a-1-5p, oha-miR-29a-2-5p, oha-miR-29a-3p, oha-miR-29b-1-5p, oha-miR-29b-2-5p, oha-miR-29b-3p, oha-miR-301a-3p, oha-miR-301a-5p, oha-miR-301b-3p, oha-miR-301b-5p, oha-miR-30a-3p, oha-miR-30a-5p, oha-miR-30b-3p, oha-miR-30b-5p, oha-miR-30c-1-3p, oha-miR-30c-2-3p, oha-miR-30c-5p, oha-miR-30d-3p, oha-miR-30d-5p, oha-miR-30e-3p, oha-miR-30e-5p, oha-miR-31-3p, oha-miR-31-5p, oha-miR-3120, oha-miR-32-3p, oha-miR-32-5p, oha-miR-33-3p, oha-miR-33-5p, oha-miR-338-3p, oha-miR-338-5p, oha-miR-33a-3p, oha-miR-33a-5p, oha-miR-34a-3p, oha-miR-34a-5p, oha-miR-34c-3p, oha-miR-34c-5p, oha-miR-3618, oha-miR-363-3p, oha-miR-363-5p, oha-miR-365a-1-5p, oha-miR-365a-2-5p, oha-miR-365a-3p, oha-miR-375-3p, oha-miR-375-5p, oha-miR-383-3p, oha-miR-383-5p, oha-miR-425-3p, oha-miR-425-5p, oha-miR-429-3p, oha-miR-429-5p, oha-miR-449a-3p, oha-miR-449a-5p, oha-miR-449c-3p, oha-miR-449c-5p, oha-miR-451-??, oha-miR-451-3p, oha-miR-455-3p, oha-miR-455-5p, oha-miR-456, oha-miR-458-3p, oha-miR-458-5p, oha-miR-490-3p, oha-miR-490-5p, oha-miR-499-3p, oha-miR-499-5p, oha-miR-5391, oha-miR-5470, oha-miR-551b-3p, oha-miR-551b-5p, oha-miR-599, oha-miR-7-1-3p, oha-miR-7-2-3p, oha-miR-7-3-3p, oha-miR-7-5p, oha-miR-737-3p, oha-miR-737-5p, oha-miR-875-3p, oha-miR-875-5p, oha-miR-9-1-5p, oha-miR-9-2-5p, oha-miR-9-3-5p, oha-miR-9-3p, oha-miR-9-4-5p, oha-miR-92a, oha-miR-92a-3p, oha-miR-92a-5p, oha-miR-96, oha-miR-98-3p, oha-miR-98-5p, oha-miR-99a-3p, oha-miR-99a-5p, oha-miR-99b-3p, oha-miR-99b-5p, ola-let-7a, ola-let-

7a-3p, ola-let-7a-5p, ola-let-7b, ola-let-7c, ola-let-7e, ola-let-7g, ola-miR-1-3p, ola-miR-1-5p, ola-miR-100, ola-miR-101a-3p, ola-miR-101a-5p, ola-miR-101b-3p, ola-miR-101b-5p, ola-miR-103, ola-miR-106a, ola-miR-107, ola-miR-10b, ola-miR-10d, ola-miR-122, ola-miR-124-3p, ola-miR-124-5p, ola-miR-125a-3p, ola-miR-125a-5p, ola-miR-125b, ola-miR-125c, ola-miR-126-3p, ola-miR-126-5p, ola-miR-128, ola-miR-1306, ola-miR-130c, ola-miR-132, ola-miR-133-3p, ola-miR-133-5p, ola-miR-135a, ola-miR-135b, ola-miR-137, ola-miR-138, ola-miR-1388-3p, ola-miR-1388-5p, ola-miR-139, ola-miR-140-3p, ola-miR-140-5p, ola-miR-142, ola-miR-143, ola-miR-144, ola-miR-145, ola-miR-146a-5p, ola-miR-148, ola-miR-150, ola-miR-152, ola-miR-15a, ola-miR-16, ola-miR-17, ola-miR-1788, ola-miR-18, ola-miR-181a-3p, ola-miR-181a-5p, ola-miR-181b-3p, ola-miR-181b-5p, ola-miR-182, ola-miR-183-3p, ola-miR-183-5p, ola-miR-184-3p, ola-miR-184-5p, ola-miR-187, ola-miR-190b, ola-miR-192-3p, ola-miR-192-5p, ola-miR-193a, ola-miR-194-3p, ola-miR-194-5p, ola-miR-196a, ola-miR-199a-3p, ola-miR-199a-5p, ola-miR-19a, ola-miR-19b, ola-miR-19d, ola-miR-200a, ola-miR-200b, ola-miR-203, ola-miR-204, ola-miR-205, ola-miR-206, ola-miR-20a, ola-miR-21, ola-miR-210-3p, ola-miR-210-5p, ola-miR-214, ola-miR-218a, ola-miR-218b, ola-miR-22, ola-miR-221, ola-miR-222, ola-miR-223, ola-miR-23a, ola-miR-23b, ola-miR-24a, ola-miR-24b-3p, ola-miR-24b-5p, ola-miR-24c, ola-miR-26, ola-miR-27a, ola-miR-27b-5p, ola-miR-27c-3p, ola-miR-27c-5p, ola-miR-27d-3p, ola-miR-29a, ola-miR-29b, ola-miR-29c, ola-miR-301a-3p, ola-miR-301a-5p, ola-miR-301b-3p, ola-miR-301b-5p, ola-miR-30a-3p, ola-miR-30a-5p, ola-miR-30c, ola-miR-30d-3p, ola-miR-30d-5p, ola-miR-30e, ola-miR-31, ola-miR-33, ola-miR-338-3p, ola-miR-338-5p, ola-miR-430a, ola-miR-430b, ola-miR-430c, ola-miR-430d, ola-miR-455-3p, ola-miR-455-5p, ola-miR-458, ola-miR-459-3p, ola-miR-459-5p, ola-miR-460-3p, ola-miR-460-5p, ola-miR-462, ola-miR-499, ola-miR-7, ola-miR-729, ola-miR-731, ola-miR-92a, ola-miR-92b, ola-miR-99, ola-miR-9a-3p, ola-miR-9a-5p, ola-miR-9b-5p, oni-let-7a, oni-let-7b, oni-let-7c, oni-let-7d, oni-let-7e, oni-let-7f, oni-let-7g, oni-let-7h, oni-let-7i, oni-miR-1, oni-miR-100, oni-miR-101a, oni-miR-101b, oni-miR-103, oni-miR-10544, oni-miR-10545, oni-miR-10547a, oni-miR-10547b, oni-miR-10547c, oni-miR-10547d, oni-miR-10548a, oni-miR-10548b, oni-miR-10548c, oni-miR-10548d, oni-miR-10549, oni-miR-10551, oni-miR-10552, oni-miR-10553, oni-miR-10555, oni-miR-10556a, oni-miR-10556b, oni-miR-10558, oni-miR-10559, oni-miR-10562, oni-miR-10563, oni-miR-10569, oni-miR-10573a, oni-miR-10573b, oni-miR-10573c, oni-miR-10573d, oni-miR-10574, oni-miR-10575, oni-miR-10576, oni-miR-10577, oni-miR-10578, oni-miR-10579, oni-miR-10580, oni-miR-10581a, oni-miR-10581b, oni-miR-10581c, oni-miR-10581d, oni-miR-10582, oni-miR-10583, oni-miR-10584, oni-miR-10585, oni-miR-10586,

oni-miR-10587, oni-miR-10588, oni-miR-10589, oni-miR-10590, oni-miR-10591, oni-miR-10592, oni-miR-10593, oni-miR-10594a, oni-miR-10594b, oni-miR-10594c, oni-miR-10595, oni-miR-10596-3p, oni-miR-10596-5p, oni-miR-10597a, oni-miR-10597b, oni-miR-10597c, oni-miR-10597d, oni-miR-10598, oni-miR-10599, oni-miR-106, oni-miR-10600, oni-miR-10601, oni-miR-10602, oni-miR-10603a, oni-miR-10603b, oni-miR-10603c, oni-miR-10604, oni-miR-10605, oni-miR-10606, oni-miR-10607, oni-miR-10608a, oni-miR-10608b, oni-miR-10609, oni-miR-10610a, oni-miR-10610b, oni-miR-10610c, oni-miR-10611, oni-miR-10612, oni-miR-10613, oni-miR-10614, oni-miR-10615a, oni-miR-10615b, oni-miR-10616a, oni-miR-10616b, oni-miR-10617, oni-miR-10618, oni-miR-10619, oni-miR-10620, oni-miR-10621a, oni-miR-10621b, oni-miR-10622, oni-miR-10623, oni-miR-10624, oni-miR-10625, oni-miR-10626, oni-miR-10627, oni-miR-10628, oni-miR-10629, oni-miR-10630, oni-miR-10631, oni-miR-10632, oni-miR-10633, oni-miR-10634, oni-miR-10635, oni-miR-10636, oni-miR-10637, oni-miR-10638, oni-miR-10639, oni-miR-10640, oni-miR-10641, oni-miR-10642, oni-miR-10643, oni-miR-10644, oni-miR-10645, oni-miR-10646a, oni-miR-10646b, oni-miR-10647, oni-miR-10648, oni-miR-10649, oni-miR-10650, oni-miR-10651, oni-miR-10652, oni-miR-10653, oni-miR-10654, oni-miR-10655, oni-miR-10656, oni-miR-10657, oni-miR-10658, oni-miR-10659, oni-miR-10660, oni-miR-10661, oni-miR-10662, oni-miR-10663, oni-miR-10664, oni-miR-10665, oni-miR-10666, oni-miR-10667, oni-miR-10668, oni-miR-10669, oni-miR-10670, oni-miR-10671, oni-miR-10672, oni-miR-10673, oni-miR-10674, oni-miR-10675, oni-miR-10676, oni-miR-10677, oni-miR-10678, oni-miR-10679, oni-miR-10680, oni-miR-10681, oni-miR-10682, oni-miR-10683, oni-miR-10684, oni-miR-10685, oni-miR-10686, oni-miR-10687, oni-miR-10688, oni-miR-10689, oni-miR-10690, oni-miR-10691, oni-miR-10692, oni-miR-10693, oni-miR-10694, oni-miR-10695, oni-miR-10696, oni-miR-10697a, oni-miR-10697b, oni-miR-10698, oni-miR-10699, oni-miR-107, oni-miR-10700, oni-miR-10701, oni-miR-10702, oni-miR-10703, oni-miR-10704, oni-miR-10705, oni-miR-10706, oni-miR-10707, oni-miR-10708, oni-miR-10709, oni-miR-10710, oni-miR-10711, oni-miR-10712, oni-miR-10713, oni-miR-10714, oni-miR-10715, oni-miR-10716, oni-miR-10717, oni-miR-10718, oni-miR-10719, oni-miR-10720, oni-miR-10721, oni-miR-10722, oni-miR-10723, oni-miR-10724, oni-miR-10725, oni-miR-10726, oni-miR-10727, oni-miR-10728, oni-miR-10729, oni-miR-10730, oni-miR-10731, oni-miR-10732, oni-miR-10733, oni-miR-10734, oni-miR-10735, oni-miR-10736, oni-miR-10737, oni-miR-10738, oni-miR-10739, oni-miR-10740, oni-miR-10741, oni-miR-10742, oni-miR-10743, oni-miR-10744, oni-miR-10745, oni-miR-10746, oni-miR-10747, oni-miR-10748, oni-miR-10749, oni-miR-10750, oni-miR-10751, oni-miR-10752, oni-miR-10753, oni-miR-10754,

oni-miR-10755, oni-miR-10756, oni-miR-10757, oni-miR-10758, oni-miR-10759, oni-miR-10760, oni-miR-10761, oni-miR-10762, oni-miR-10763, oni-miR-10764, oni-miR-10765, oni-miR-10766, oni-miR-10767, oni-miR-10768, oni-miR-10769, oni-miR-10770, oni-miR-10771, oni-miR-10772, oni-miR-10773, oni-miR-10774, oni-miR-10775, oni-miR-10776, oni-miR-10777, oni-miR-10778, oni-miR-10779, oni-miR-10780, oni-miR-10781, oni-miR-10782, oni-miR-10783, oni-miR-10784, oni-miR-10785, oni-miR-10786, oni-miR-10787, oni-miR-10788, oni-miR-10789, oni-miR-10790, oni-miR-10791, oni-miR-10792, oni-miR-10793, oni-miR-10794, oni-miR-10795, oni-miR-10796, oni-miR-10797, oni-miR-10798, oni-miR-10799, oni-miR-10800, oni-miR-10801, oni-miR-10802, oni-miR-10803, oni-miR-10804, oni-miR-10805, oni-miR-10806, oni-miR-10807, oni-miR-10808, oni-miR-10809, oni-miR-10810, oni-miR-10811, oni-miR-10812, oni-miR-10813, oni-miR-10814, oni-miR-10815, oni-miR-10816, oni-miR-10817, oni-miR-10818, oni-miR-10819, oni-miR-10820, oni-miR-10821, oni-miR-10822, oni-miR-10823, oni-miR-10824, oni-miR-10825, oni-miR-10826, oni-miR-10827, oni-miR-10828, oni-miR-10829, oni-miR-10830, oni-miR-10831a, oni-miR-10831b, oni-miR-10832, oni-miR-10833, oni-miR-10834, oni-miR-10835, oni-miR-10836, oni-miR-10837, oni-miR-10838, oni-miR-10839, oni-miR-10840, oni-miR-10841, oni-miR-10842, oni-miR-10843, oni-miR-10844, oni-miR-10845, oni-miR-10846, oni-miR-10847, oni-miR-10848, oni-miR-10849, oni-miR-10850, oni-miR-10851, oni-miR-10852, oni-miR-10853, oni-miR-10854, oni-miR-10855, oni-miR-10856, oni-miR-10857, oni-miR-10858, oni-miR-10859, oni-miR-10860, oni-miR-10861, oni-miR-10862, oni-miR-10863, oni-miR-10864, oni-miR-10865, oni-miR-10866, oni-miR-10867, oni-miR-10868, oni-miR-10869, oni-miR-10870, oni-miR-10871, oni-miR-10872, oni-miR-10873, oni-miR-10874, oni-miR-10875, oni-miR-10876, oni-miR-10877, oni-miR-10878, oni-miR-10879, oni-miR-10880, oni-miR-10881, oni-miR-10882, oni-miR-10883, oni-miR-10884, oni-miR-10885, oni-miR-10886, oni-miR-10887, oni-miR-10888, oni-miR-10889, oni-miR-10890, oni-miR-10891, oni-miR-10892, oni-miR-10893, oni-miR-10894, oni-miR-10895, oni-miR-10896, oni-miR-10897, oni-miR-10898, oni-miR-10899, oni-miR-10900a, oni-miR-10900b, oni-miR-10901, oni-miR-10902, oni-miR-10903, oni-miR-10904, oni-miR-10905, oni-miR-10906, oni-miR-10907, oni-miR-10908, oni-miR-10909, oni-miR-10910, oni-miR-10912, oni-miR-10913, oni-miR-10914, oni-miR-10915, oni-miR-10916, oni-miR-10917, oni-miR-10918, oni-miR-10919, oni-miR-10920, oni-miR-10921, oni-miR-10922, oni-miR-10923, oni-miR-10924, oni-miR-10925, oni-miR-10926, oni-miR-10927, oni-miR-10928, oni-miR-10929, oni-miR-10930, oni-miR-10931, oni-miR-10932, oni-miR-10933, oni-miR-10934, oni-miR-10935, oni-miR-10936, oni-miR-10937, oni-miR-10938, oni-miR-10939, oni-miR-

10940, oni-miR-10941, oni-miR-10942, oni-miR-10943, oni-miR-10944, oni-miR-10946, oni-miR-10947, oni-miR-10948, oni-miR-10949, oni-miR-10950, oni-miR-10951, oni-miR-10952, oni-miR-10953, oni-miR-10954, oni-miR-10955, oni-miR-10956, oni-miR-10957, oni-miR-10958, oni-miR-10959, oni-miR-10960, oni-miR-10961, oni-miR-10962, oni-miR-10963, oni-miR-10964, oni-miR-10965, oni-miR-10966, oni-miR-10967, oni-miR-10968, oni-miR-10969, oni-miR-10970, oni-miR-10971, oni-miR-10972, oni-miR-10973, oni-miR-10974, oni-miR-10975, oni-miR-10976, oni-miR-10977, oni-miR-10a, oni-miR-10b, oni-miR-10c, oni-miR-10d, oni-miR-122, oni-miR-124a, oni-miR-124b, oni-miR-125a, oni-miR-125b, oni-miR-126, oni-miR-128, oni-miR-129, oni-miR-130a, oni-miR-130b-3p, oni-miR-130b-5p, oni-miR-132a, oni-miR-132b-3p, oni-miR-132b-5p, oni-miR-132c, oni-miR-132d, oni-miR-133a, oni-miR-133b, oni-miR-135a, oni-miR-135b, oni-miR-135c, oni-miR-135c-3p, oni-miR-135d, oni-miR-137a, oni-miR-137b, oni-miR-138, oni-miR-1388, oni-miR-139, oni-miR-140, oni-miR-142, oni-miR-142b, oni-miR-143, oni-miR-144a, oni-miR-144b, oni-miR-145, oni-miR-147, oni-miR-148-3p, oni-miR-148-5p, oni-miR-150, oni-miR-153a, oni-miR-153b, oni-miR-153c, oni-miR-153d, oni-miR-155, oni-miR-15a, oni-miR-15b, oni-miR-15c, oni-miR-16a, oni-miR-16b, oni-miR-1788, oni-miR-17a, oni-miR-17b, oni-miR-181a, oni-miR-181b, oni-miR-181c, oni-miR-181d, oni-miR-182, oni-miR-183, oni-miR-184a, oni-miR-184b, oni-miR-184c, oni-miR-184d, oni-miR-187, oni-miR-18a, oni-miR-18a-2, oni-miR-18b, oni-miR-190a, oni-miR-190b, oni-miR-192, oni-miR-193, oni-miR-194a, oni-miR-194b, oni-miR-196a, oni-miR-196b, oni-miR-199a, oni-miR-199b, oni-miR-199c, oni-miR-19a, oni-miR-19b, oni-miR-19c, oni-miR-19d, oni-miR-20, oni-miR-200a, oni-miR-200b, oni-miR-202, oni-miR-203a, oni-miR-203b, oni-miR-204a, oni-miR-204b, oni-miR-205, oni-miR-206, oni-miR-21, oni-miR-210, oni-miR-212a-3p, oni-miR-212a-5p, oni-miR-212b, oni-miR-214, oni-miR-216a, oni-miR-216b, oni-miR-217, oni-miR-2184, oni-miR-2187a, oni-miR-2187b, oni-miR-2188, oni-miR-218a, oni-miR-218b, oni-miR-219a-3p, oni-miR-219a-5p, oni-miR-219b, oni-miR-219c-3p, oni-miR-219c-5p, oni-miR-219d, oni-miR-221, oni-miR-222, oni-miR-22a, oni-miR-22b, oni-miR-22c, oni-miR-23a, oni-miR-23b, oni-miR-23c, oni-miR-23d, oni-miR-24a, oni-miR-24a-3, oni-miR-24a-4, oni-miR-24b-3p, oni-miR-24b-5p, oni-miR-25, oni-miR-26a, oni-miR-26b, oni-miR-26c, oni-miR-26d, oni-miR-27a, oni-miR-27b, oni-miR-27c, oni-miR-27d-3p, oni-miR-27d-5p, oni-miR-27e, oni-miR-27f, oni-miR-29a, oni-miR-29b, oni-miR-29c, oni-miR-29d, oni-miR-301a, oni-miR-301b, oni-miR-301c, oni-miR-30a, oni-miR-30b, oni-miR-30c, oni-miR-30d, oni-miR-31, oni-miR-3120-3p, oni-miR-3120-5p, oni-miR-338, oni-miR-33a-3p, oni-miR-33a-5p, oni-miR-33b-3p, oni-miR-33b-5p, oni-miR-34, oni-miR-34b, oni-miR-34c, oni-miR-3553, oni-miR-365, oni-miR-

375, oni-miR-429b, oni-miR-430a, oni-miR-430b, oni-miR-449a, oni-miR-449b-3p, oni-miR-449b-5p, oni-miR-449c, oni-miR-451b, oni-miR-454b, oni-miR-455, oni-miR-456, oni-miR-457, oni-miR-458, oni-miR-4585, oni-miR-460, oni-miR-462, oni-miR-489, oni-miR-499, oni-miR-551, oni-miR-6960, oni-miR-7, oni-miR-7132a-3p, oni-miR-7132a-5p, oni-miR-7132b-3p, oni-miR-7132b-5p, oni-miR-7133, oni-miR-7144, oni-miR-7147, oni-miR-722, oni-miR-723a, oni-miR-723b, oni-miR-724, oni-miR-725, oni-miR-726, oni-miR-726b, oni-miR-727a, oni-miR-727b, oni-miR-728a, oni-miR-728b, oni-miR-729-3p, oni-miR-729-5p, oni-miR-730, oni-miR-731, oni-miR-734, oni-miR-736, oni-miR-7550, oni-miR-7552, oni-miR-7565, oni-miR-8159, oni-miR-8160a, oni-miR-8160b, oni-miR-92a, oni-miR-92b, oni-miR-93, oni-miR-96, oni-miR-99a, oni-miR-99b, oni-miR-9a, oni-miR-9a-3p, oni-miR-9a-5p, oni-miR-9a-7-3p, oni-miR-9b, oni-miR-9c-5p, osa-miR11336-3p, osa-miR11336-5p, osa-miR11337-3p, osa-miR11337-5p, osa-miR11338-3p, osa-miR11338-5p, osa-miR11339-3p, osa-miR11339-5p, osa-miR11340-3p, osa-miR11340-5p, osa-miR11341-3p, osa-miR11341-5p, osa-miR11342-3p, osa-miR11342-5p, osa-miR11343-3p, osa-miR11343-5p, osa-miR11344-3p, osa-miR11344-5p, osa-miR1319a, osa-miR1319b, osa-miR1320-3p, osa-miR1320-5p, osa-miR1423-3p, osa-miR1423-5p, osa-miR1424, osa-miR1425-3p, osa-miR1425-5p, osa-miR1426, osa-miR1427, osa-miR1428a-3p, osa-miR1428a-5p, osa-miR1428b, osa-miR1428c, osa-miR1428d, osa-miR1428e-3p, osa-miR1428e-5p, osa-miR1428f-5p, osa-miR1428g-5p, osa-miR1429-3p, osa-miR1429-5p, osa-miR1430, osa-miR1431, osa-miR1432-3p, osa-miR1432-5p, osa-miR1435, osa-miR1436, osa-miR1437a, osa-miR1437b-3p, osa-miR1437b-5p, osa-miR1438, osa-miR1439, osa-miR1440a, osa-miR1440b, osa-miR1441, osa-miR1442, osa-miR156a, osa-miR156b-3p, osa-miR156b-5p, osa-miR156c-3p, osa-miR156c-5p, osa-miR156d, osa-miR156e, osa-miR156f-3p, osa-miR156f-5p, osa-miR156g-3p, osa-miR156g-5p, osa-miR156h-3p, osa-miR156h-5p, osa-miR156i, osa-miR156j-3p, osa-miR156j-5p, osa-miR156k, osa-miR156l-3p, osa-miR156l-5p, osa-miR159a.1, osa-miR159a.2, osa-miR159b, osa-miR159c, osa-miR159d, osa-miR159e, osa-miR159f, osa-miR160a-3p, osa-miR160a-5p, osa-miR160b-3p, osa-miR160b-5p, osa-miR160c-3p, osa-miR160c-5p, osa-miR160d-3p, osa-miR160d-5p, osa-miR160e-3p, osa-miR160e-5p, osa-miR160f-3p, osa-miR160f-5p, osa-miR162a, osa-miR162b, osa-miR164a, osa-miR164b, osa-miR164c, osa-miR164d, osa-miR164e, osa-miR164f, osa-miR166a-3p, osa-miR166a-5p, osa-miR166b-3p, osa-miR166b-5p, osa-miR166c-3p, osa-miR166c-5p, osa-miR166d-3p, osa-miR166d-5p, osa-miR166e-3p, osa-miR166e-5p, osa-miR166f, osa-miR166g-3p, osa-miR166g-5p, osa-miR166h-3p, osa-miR166h-5p, osa-miR166i-3p, osa-miR166i-5p, osa-miR166j-3p, osa-miR166j-5p, osa-miR166k-3p, osa-

miR166k-5p, osa-miR166l-3p, osa-miR166l-5p, osa-miR166m, osa-miR167a-3p, osa-miR167a-5p, osa-miR167b, osa-miR167c-3p, osa-miR167c-5p, osa-miR167d-3p, osa-miR167d-5p, osa-miR167e-3p, osa-miR167e-5p, osa-miR167f, osa-miR167g, osa-miR167h-3p, osa-miR167h-5p, osa-miR167i-3p, osa-miR167i-5p, osa-miR167j, osa-miR168a-3p, osa-miR168a-5p, osa-miR168b, osa-miR169a, osa-miR169b, osa-miR169c, osa-miR169d, osa-miR169e, osa-miR169f.1, osa-miR169f.2, osa-miR169g, osa-miR169h, osa-miR169i-3p, osa-miR169i-5p.1, osa-miR169i-5p.2, osa-miR169j, osa-miR169k, osa-miR169l, osa-miR169m, osa-miR169n, osa-miR169o, osa-miR169p, osa-miR169q, osa-miR169r-3p, osa-miR169r-5p, osa-miR171a, osa-miR171b, osa-miR171c-3p, osa-miR171c-5p, osa-miR171d-3p, osa-miR171d-5p, osa-miR171e-3p, osa-miR171e-5p, osa-miR171f-3p, osa-miR171f-5p, osa-miR171g, osa-miR171h, osa-miR171i-3p, osa-miR171i-5p, osa-miR172a, osa-miR172b, osa-miR172c, osa-miR172d-3p, osa-miR172d-5p, osa-miR1846a-3p, osa-miR1846a-5p, osa-miR1846b-3p, osa-miR1846b-5p, osa-miR1846c-3p, osa-miR1846c-5p, osa-miR1846d-3p, osa-miR1846d-5p, osa-miR1846e, osa-miR1847.1, osa-miR1847.2, osa-miR1848, osa-miR1849, osa-miR1850.1, osa-miR1850.2, osa-miR1850.3, osa-miR1851, osa-miR1852, osa-miR1853-3p, osa-miR1853-5p, osa-miR1854-3p, osa-miR1854-5p, osa-miR1855, osa-miR1856, osa-miR1857-3p, osa-miR1857-5p, osa-miR1858a, osa-miR1858b, osa-miR1859, osa-miR1860-3p, osa-miR1860-5p, osa-miR1861a, osa-miR1861b, osa-miR1861c, osa-miR1861d, osa-miR1861e, osa-miR1861f, osa-miR1861g, osa-miR1861h, osa-miR1861i, osa-miR1861j, osa-miR1861k, osa-miR1861l, osa-miR1861m, osa-miR1861n, osa-miR1861o, osa-miR1862a, osa-miR1862b, osa-miR1862c, osa-miR1862d, osa-miR1862e, osa-miR1862f, osa-miR1862g, osa-miR1863a, osa-miR1863b, osa-miR1863b.2, osa-miR1863c, osa-miR1864, osa-miR1865-3p, osa-miR1865-5p, osa-miR1866-3p, osa-miR1866-5p, osa-miR1868, osa-miR1869, osa-miR1870-3p, osa-miR1870-5p, osa-miR1871, osa-miR1872, osa-miR1873, osa-miR1874-3p, osa-miR1874-5p, osa-miR1875, osa-miR1876, osa-miR1877, osa-miR1878, osa-miR1879, osa-miR1880, osa-miR1881, osa-miR1882a, osa-miR1882b, osa-miR1882c, osa-miR1882d, osa-miR1882e-3p, osa-miR1882e-5p, osa-miR1882f, osa-miR1882g, osa-miR1882h, osa-miR1883a, osa-miR1883b, osa-miR2055, osa-miR2090, osa-miR2091-3p, osa-miR2091-5p, osa-miR2092-3p, osa-miR2092-5p, osa-miR2093-3p, osa-miR2093-5p, osa-miR2094-3p, osa-miR2094-5p, osa-miR2095-3p, osa-miR2095-5p, osa-miR2096-3p, osa-miR2096-5p, osa-miR2097-3p, osa-miR2097-5p, osa-miR2098-3p, osa-miR2098-5p, osa-miR2099-3p, osa-miR2099-5p, osa-miR2100-3p, osa-miR2100-5p, osa-miR2101-3p, osa-miR2101-5p, osa-miR2102-3p, osa-miR2102-5p, osa-miR2103, osa-miR2104, osa-miR2105, osa-miR2106, osa-miR2118a, osa-miR2118b,

osa-miR2118c, osa-miR2118d, osa-miR2118e, osa-miR2118f, osa-miR2118g, osa-miR2118h, osa-miR2118i, osa-miR2118j, osa-miR2118k, osa-miR2118l, osa-miR2118m, osa-miR2118n, osa-miR2118o, osa-miR2118p, osa-miR2118q, osa-miR2118r, osa-miR2120, osa-miR2120b-3p, osa-miR2120b-5p, osa-miR2121a, osa-miR2121b, osa-miR2122, osa-miR2275a, osa-miR2275b, osa-miR2275c, osa-miR2275d, osa-miR2863a, osa-miR2863b, osa-miR2863c, osa-miR2864.1, osa-miR2864.2, osa-miR2865, osa-miR2866, osa-miR2867-3p, osa-miR2867-5p, osa-miR2868, osa-miR2869, osa-miR2870, osa-miR2871a-3p, osa-miR2871a-5p, osa-miR2871b-3p, osa-miR2871b-5p, osa-miR2872, osa-miR2873a, osa-miR2873b, osa-miR2873c, osa-miR2874, osa-miR2875, osa-miR2876-3p, osa-miR2876-5p, osa-miR2877, osa-miR2878-3p, osa-miR2878-5p, osa-miR2879, osa-miR2880, osa-miR2905, osa-miR2907a, osa-miR2907b, osa-miR2907c, osa-miR2907d, osa-miR2918, osa-miR2919, osa-miR2920, osa-miR2921, osa-miR2922, osa-miR2923, osa-miR2924, osa-miR2925, osa-miR2926, osa-miR2927, osa-miR2928, osa-miR2929, osa-miR2930, osa-miR2931, osa-miR2932, osa-miR319a-3p, osa-miR319a-3p.2-3p, osa-miR319a-5p, osa-miR319b, osa-miR390-3p, osa-miR390-5p, osa-miR393a, osa-miR393b-3p, osa-miR393b-5p, osa-miR394, osa-miR395a, osa-miR395b, osa-miR395c, osa-miR395d, osa-miR395e, osa-miR395f, osa-miR395g, osa-miR395h, osa-miR395i, osa-miR395j, osa-miR395k, osa-miR395l, osa-miR395m, osa-miR395n, osa-miR395o, osa-miR395p, osa-miR395q, osa-miR395r, osa-miR395s, osa-miR395t, osa-miR395u, osa-miR395v, osa-miR395w, osa-miR395x, osa-miR395y, osa-miR396a-3p, osa-miR396a-5p, osa-miR396b-3p, osa-miR396b-5p, osa-miR396c-3p, osa-miR396c-5p, osa-miR396d, osa-miR396e-3p, osa-miR396e-5p, osa-miR396f-3p, osa-miR396f-5p, osa-miR396g, osa-miR396h, osa-miR3979-3p, osa-miR3979-5p, osa-miR397a, osa-miR397b, osa-miR3980a-3p, osa-miR3980a-5p, osa-miR3980b-3p, osa-miR3980b-5p, osa-miR3981-3p, osa-miR3981-5p, osa-miR3982-3p, osa-miR3982-5p, osa-miR398a, osa-miR398b, osa-miR399a, osa-miR399b, osa-miR399c, osa-miR399d, osa-miR399e, osa-miR399f, osa-miR399g, osa-miR399h, osa-miR399i, osa-miR399j, osa-miR399k, osa-miR408-3p, osa-miR408-5p, osa-miR413, osa-miR414, osa-miR415, osa-miR416, osa-miR417, osa-miR418, osa-miR419, osa-miR426, osa-miR435, osa-miR437, osa-miR438, osa-miR439a, osa-miR439b, osa-miR439c, osa-miR439d, osa-miR439e, osa-miR439f, osa-miR439g, osa-miR439h, osa-miR439i, osa-miR440, osa-miR443, osa-miR444a-3p.1, osa-miR444a-3p.2, osa-miR444a-5p, osa-miR444b.1, osa-miR444b.2, osa-miR444c.1, osa-miR444c.2, osa-miR444d.1, osa-miR444d.2, osa-miR444d.3, osa-miR444e, osa-miR444f, osa-miR5071, osa-miR5072, osa-miR5073, osa-miR5074, osa-miR5075, osa-miR5076, osa-miR5077, osa-miR5078, osa-miR5079a, osa-

miR5079b, osa-miR5080, osa-miR5081, osa-miR5082, osa-miR5083, osa-miR5143a, osa-miR5143b, osa-miR5144-3p, osa-miR5144-5p, osa-miR5145, osa-miR5146, osa-miR5147, osa-miR5148a, osa-miR5148b, osa-miR5148c, osa-miR5149, osa-miR5150-3p, osa-miR5150-5p, osa-miR5151, osa-miR5152-3p, osa-miR5152-5p, osa-miR5153, osa-miR5154, osa-miR5155, osa-miR5156, osa-miR5157a-3p, osa-miR5157a-5p, osa-miR5157b-3p, osa-miR5157b-5p, osa-miR5158, osa-miR5159, osa-miR5160, osa-miR5161, osa-miR5162, osa-miR5179, osa-miR528-3p, osa-miR528-5p, osa-miR529a, osa-miR529b, osa-miR530-3p, osa-miR530-5p, osa-miR531a, osa-miR531b, osa-miR531c, osa-miR5337a, osa-miR5337b, osa-miR5338, osa-miR5339, osa-miR5340, osa-miR535-3p, osa-miR535-5p, osa-miR5484, osa-miR5485, osa-miR5486, osa-miR5487, osa-miR5488, osa-miR5489, osa-miR5490, osa-miR5491, osa-miR5492, osa-miR5493, osa-miR5494, osa-miR5495, osa-miR5496, osa-miR5497, osa-miR5498, osa-miR5499, osa-miR5500, osa-miR5501, osa-miR5502, osa-miR5503, osa-miR5504, osa-miR5505, osa-miR5506, osa-miR5507, osa-miR5508, osa-miR5509, osa-miR5510, osa-miR5511, osa-miR5512a, osa-miR5512b, osa-miR5513, osa-miR5514, osa-miR5515, osa-miR5516a, osa-miR5516b, osa-miR5517, osa-miR5518, osa-miR5519, osa-miR5521, osa-miR5522, osa-miR5523, osa-miR5524, osa-miR5525, osa-miR5526, osa-miR5527, osa-miR5528, osa-miR5529, osa-miR5530, osa-miR5531, osa-miR5532, osa-miR5533, osa-miR5534a, osa-miR5534b, osa-miR5535, osa-miR5536, osa-miR5537, osa-miR5538, osa-miR5539a, osa-miR5539b, osa-miR5540, osa-miR5541, osa-miR5542, osa-miR5543, osa-miR5544, osa-miR5788, osa-miR5789, osa-miR5790, osa-miR5791, osa-miR5792, osa-miR5793, osa-miR5794, osa-miR5795, osa-miR5796, osa-miR5797, osa-miR5798, osa-miR5799, osa-miR5800, osa-miR5801a, osa-miR5801b, osa-miR5801c-3p, osa-miR5801c-5p, osa-miR5802, osa-miR5803, osa-miR5804, osa-miR5805, osa-miR5806, osa-miR5807, osa-miR5809, osa-miR5810, osa-miR5811, osa-miR5812, osa-miR5813, osa-miR5814, osa-miR5815, osa-miR5816, osa-miR5817, osa-miR5818, osa-miR5819, osa-miR5820, osa-miR5821, osa-miR5822, osa-miR5823, osa-miR5824, osa-miR5825, osa-miR5826, osa-miR5827, osa-miR5828, osa-miR5829, osa-miR5830, osa-miR5831, osa-miR5832, osa-miR5833, osa-miR5834, osa-miR5835, osa-miR5836, osa-miR5837.1, osa-miR5837.2, osa-miR6245, osa-miR6245b-3p, osa-miR6245b-5p, osa-miR6246, osa-miR6247, osa-miR6248, osa-miR6249a, osa-miR6249b, osa-miR6250, osa-miR6251, osa-miR6252, osa-miR6253, osa-miR6254, osa-miR6255, osa-miR6256, osa-miR7692-3p, osa-miR7692-5p, osa-miR7693-3p, osa-miR7693-5p, osa-miR7694-3p, osa-miR7694-5p, osa-miR7695-3p, osa-miR7695-5p, osa-miR810a, osa-miR810b.1, osa-miR810b.2, osa-miR812a, osa-miR812b, osa-miR812c, osa-miR812d, osa-miR812e, osa-

miR812f, osa-miR812g, osa-miR812h, osa-miR812i, osa-miR812j, osa-miR812k, osa-miR812l, osa-miR812m, osa-miR812n-3p, osa-miR812n-5p, osa-miR812o-3p, osa-miR812o-5p, osa-miR812p, osa-miR812q, osa-miR812r, osa-miR812s, osa-miR812t, osa-miR812u, osa-miR812v, osa-miR814a, osa-miR814b, osa-miR814c, osa-miR815a, osa-miR815b, osa-miR815c, osa-miR816, osa-miR817, osa-miR818a, osa-miR818b, osa-miR818c, osa-miR818d, osa-miR818e, osa-miR818f, osa-miR820a, osa-miR820b, osa-miR820c, osa-miR821a, osa-miR821b, osa-miR821c, osa-miR827, pab-miR1083, pab-miR11402, pab-miR11403, pab-miR11404, pab-miR11405, pab-miR11406, pab-miR11407a, pab-miR11407b, pab-miR11408a, pab-miR11408b, pab-miR11408c, pab-miR11409a, pab-miR11409b, pab-miR11409c, pab-miR11409d, pab-miR11409e, pab-miR11409f, pab-miR11409g, pab-miR11410, pab-miR11411a, pab-miR11411b, pab-miR11411c, pab-miR11411d, pab-miR11412, pab-miR11413a, pab-miR11413b, pab-miR11414, pab-miR11415, pab-miR11416, pab-miR11417, pab-miR11418, pab-miR11419, pab-miR11420a, pab-miR11420b, pab-miR11420c, pab-miR11420d, pab-miR11420e, pab-miR11420f, pab-miR11420g, pab-miR11421, pab-miR11422a, pab-miR11422b, pab-miR11423a, pab-miR11423b, pab-miR11423c, pab-miR11423d, pab-miR11423e, pab-miR11423f, pab-miR11423g, pab-miR11423h, pab-miR11423i, pab-miR11423j, pab-miR11423k, pab-miR11423l, pab-miR11424, pab-miR11425a, pab-miR11425b, pab-miR11425c, pab-miR11425d, pab-miR11425e, pab-miR11425f, pab-miR11426a, pab-miR11426b, pab-miR11427a, pab-miR11427b, pab-miR11428, pab-miR11429a, pab-miR11429b, pab-miR11429c, pab-miR11429d, pab-miR11430, pab-miR11431a, pab-miR11431b, pab-miR11431c, pab-miR11432, pab-miR11433, pab-miR11434, pab-miR11435, pab-miR11436a, pab-miR11436b, pab-miR11436c, pab-miR11436d, pab-miR11437, pab-miR11438, pab-miR11439, pab-miR11440a, pab-miR11440b, pab-miR11441a, pab-miR11441b, pab-miR11442, pab-miR11443, pab-miR11444, pab-miR11445a, pab-miR11445b, pab-miR11445c, pab-miR11446, pab-miR11447, pab-miR11448, pab-miR11449, pab-miR11450, pab-miR11451, pab-miR11452, pab-miR11453, pab-miR11454a, pab-miR11454b, pab-miR11455, pab-miR11456, pab-miR11457, pab-miR11458, pab-miR11459, pab-miR11460, pab-miR11461, pab-miR11462, pab-miR11463, pab-miR11464a, pab-miR11464b, pab-miR11465, pab-miR11466a, pab-miR11466b, pab-miR11466c, pab-miR11466d, pab-miR11466e, pab-miR11467a, pab-miR11467b, pab-miR11468, pab-miR11469, pab-miR11470, pab-miR11471, pab-miR11472, pab-miR11473, pab-miR11474, pab-miR11475, pab-miR11476a, pab-miR11476b, pab-miR11477, pab-miR11478, pab-miR11479, pab-miR11480, pab-miR11481a, pab-miR11481b, pab-miR11481c, pab-

miR11482, pab-miR11483, pab-miR11484, pab-miR11485, pab-miR11486, pab-miR11487a, pab-miR11487b, pab-miR11487c, pab-miR11488, pab-miR11489, pab-miR11490a, pab-miR11490b, pab-miR11491, pab-miR11492, pab-miR11493a, pab-miR11493b, pab-miR11493c, pab-miR11494, pab-miR11495, pab-miR11496, pab-miR11497, pab-miR11498a, pab-miR11498b, pab-miR11498c, pab-miR11499a, pab-miR11499b, pab-miR11500, pab-miR11501, pab-miR11502, pab-miR11503, pab-miR11504, pab-miR11505, pab-miR11506, pab-miR11507, pab-miR11508, pab-miR11509, pab-miR11510, pab-miR11511, pab-miR11512, pab-miR11513, pab-miR11514, pab-miR11515a, pab-miR11515b, pab-miR11516, pab-miR11517, pab-miR11518, pab-miR11519, pab-miR11520, pab-miR11521, pab-miR11522, pab-miR11523a, pab-miR11523b, pab-miR11523c, pab-miR11523d, pab-miR11524, pab-miR11525a, pab-miR11525b, pab-miR11526, pab-miR11527, pab-miR11528, pab-miR11529a, pab-miR11529b, pab-miR11529c, pab-miR11530, pab-miR11531, pab-miR11532, pab-miR11533a, pab-miR11533b, pab-miR11534, pab-miR11535, pab-miR11536, pab-miR11537, pab-miR11538, pab-miR11539a, pab-miR11539b, pab-miR11540, pab-miR11541, pab-miR11542, pab-miR11543, pab-miR11544, pab-miR11545, pab-miR11546a, pab-miR11546b, pab-miR11546c, pab-miR11546d, pab-miR11546e, pab-miR11546f, pab-miR11547, pab-miR11548, pab-miR11549, pab-miR11550, pab-miR11551a, pab-miR11551b, pab-miR11552, pab-miR11553, pab-miR11554, pab-miR11555, pab-miR11556, pab-miR11557, pab-miR11558, pab-miR11559, pab-miR11560, pab-miR11561, pab-miR11562a, pab-miR11562b, pab-miR11562c, pab-miR11563, pab-miR11564a, pab-miR11564b, pab-miR11565, pab-miR11566, pab-miR11567, pab-miR11568, pab-miR11569, pab-miR11570a, pab-miR11570b, pab-miR11570c, pab-miR11571, pab-miR11572, pab-miR11573a, pab-miR11573b, pab-miR11574, pab-miR11575, pab-miR11576, pab-miR11577, pab-miR11578, pab-miR11579, pab-miR11580, pab-miR11581, pab-miR11582, pab-miR11583a, pab-miR11583b, pab-miR1311a-3p, pab-miR1311a-5p, pab-miR1311b, pab-miR1312a, pab-miR1312b, pab-miR1312c, pab-miR1313a, pab-miR1313b, pab-miR1313c, pab-miR1313d, pab-miR1314, pab-miR156a, pab-miR156aa, pab-miR156ab, pab-miR156b, pab-miR156c, pab-miR156d, pab-miR156e, pab-miR156f, pab-miR156g, pab-miR156h, pab-miR156i, pab-miR156j, pab-miR156k, pab-miR156l, pab-miR156m, pab-miR156n, pab-miR156o, pab-miR156p, pab-miR156q, pab-miR156r, pab-miR156s, pab-miR156t, pab-miR156u, pab-miR156v, pab-miR156w, pab-miR156x, pab-miR156y, pab-miR156z, pab-miR159a, pab-miR159b, pab-miR159c, pab-miR159d, pab-miR159e, pab-miR159f, pab-miR159g, pab-miR159h, pab-miR159i, pab-miR159j, pab-miR159k, pab-miR160a, pab-miR160b, pab-

miR160c, pab-miR160d, pab-miR160e, pab-miR160f, pab-miR162a, pab-miR162b, pab-miR162c, pab-miR164a, pab-miR164b, pab-miR166a, pab-miR166b, pab-miR166c, pab-miR166d, pab-miR166e, pab-miR166f, pab-miR166g, pab-miR166h, pab-miR166i, pab-miR166j, pab-miR167a, pab-miR167b, pab-miR168a, pab-miR168b, pab-miR169a, pab-miR169b, pab-miR169c, pab-miR169d, pab-miR169e, pab-miR171a, pab-miR171b, pab-miR171c, pab-miR171d, pab-miR171e, pab-miR1863, pab-miR2111, pab-miR2950a, pab-miR2950b, pab-miR319a, pab-miR319b, pab-miR319c, pab-miR319d, pab-miR319e, pab-miR319f, pab-miR319g, pab-miR319h, pab-miR319i, pab-miR319j, pab-miR319k, pab-miR319l, pab-miR319m, pab-miR319n, pab-miR3627a, pab-miR3627b, pab-miR3627c, pab-miR3627d, pab-miR3627e, pab-miR3627f, pab-miR3627g, pab-miR3627h, pab-miR3627i, pab-miR3627j, pab-miR3693, pab-miR3693b, pab-miR3693c, pab-miR3693d, pab-miR3693e, pab-miR3693f, pab-miR3693g, pab-miR3693h, pab-miR3693i, pab-miR3693j, pab-miR3693k, pab-miR3694, pab-miR3695a, pab-miR3695b, pab-miR3695c, pab-miR3695d-3p, pab-miR3695d-5p, pab-miR3696, pab-miR3697a, pab-miR3697b, pab-miR3697c, pab-miR3698, pab-miR3698b, pab-miR3699, pab-miR3700, pab-miR3701a, pab-miR3701b-3p, pab-miR3701b-5p, pab-miR3701c, pab-miR3701d, pab-miR3701e, pab-miR3701f, pab-miR3701g, pab-miR3701h, pab-miR3701i, pab-miR3701j, pab-miR3702, pab-miR3703, pab-miR3704, pab-miR3705, pab-miR3706, pab-miR3707, pab-miR3708, pab-miR3709a, pab-miR3709b, pab-miR3710, pab-miR3710b, pab-miR3710c, pab-miR3710d, pab-miR3710e, pab-miR3710f, pab-miR3710g, pab-miR3710h, pab-miR3710i, pab-miR3711, pab-miR3712, pab-miR390a, pab-miR390b, pab-miR391a, pab-miR391b, pab-miR391c, pab-miR391d, pab-miR391e, pab-miR391f, pab-miR391g, pab-miR391h, pab-miR391i, pab-miR393a, pab-miR393b, pab-miR393c, pab-miR393d, pab-miR394a, pab-miR394b, pab-miR394c, pab-miR395, pab-miR395a, pab-miR395b, pab-miR395c, pab-miR395d, pab-miR395e, pab-miR395f, pab-miR395g, pab-miR395h, pab-miR395i, pab-miR396a-3p, pab-miR396a-5p, pab-miR396b, pab-miR396c, pab-miR396d, pab-miR396e, pab-miR396f, pab-miR396g, pab-miR396h, pab-miR396i, pab-miR396j, pab-miR396k, pab-miR396l, pab-miR396m, pab-miR396n, pab-miR396o, pab-miR396p, pab-miR396q, pab-miR396r, pab-miR396s, pab-miR396t, pab-miR396u, pab-miR397a, pab-miR397b, pab-miR397c, pab-miR397d, pab-miR397e, pab-miR397f, pab-miR397g, pab-miR397h, pab-miR397i, pab-miR397j, pab-miR397k, pab-miR397l, pab-miR397m, pab-miR397n, pab-miR397o, pab-miR397p, pab-miR397q, pab-miR397r, pab-miR397s, pab-miR397t, pab-miR397u, pab-miR398a, pab-miR398b, pab-miR399a, pab-miR399b, pab-miR399c, pab-miR399d, pab-miR399e, pab-miR399f, pab-miR399g, pab-miR399h, pab-miR408, pab-

miR4414, pab-miR472, pab-miR482a, pab-miR482b, pab-miR482c, pab-miR482d-3p, pab-miR482d-5p, pab-miR482e, pab-miR482f, pab-miR482g, pab-miR482h, pab-miR482i, pab-miR482j, pab-miR482k, pab-miR482l, pab-miR482m, pab-miR482n, pab-miR482o, pab-miR482p, pab-miR482q, pab-miR482r, pab-miR482s, pab-miR482t, pab-miR482u, pab-miR482v, pab-miR482w, pab-miR482x, pab-miR529a, pab-miR529b, pab-miR529c, pab-miR529d, pab-miR529e, pab-miR529f, pab-miR529g, pab-miR529h, pab-miR529i, pab-miR529j, pab-miR529k, pab-miR529l, pab-miR529m, pab-miR529n, pab-miR529o, pab-miR529p, pab-miR535a, pab-miR535b, pab-miR535c, pab-miR535d, pab-miR535e, pab-miR536a, pab-miR536b, pab-miR828, pab-miR858a, pab-miR858b, pab-miR946a, pab-miR946b, pab-miR946c, pab-miR946d, pab-miR946e, pab-miR946f, pab-miR946g, pab-miR946h, pab-miR947, pab-miR949a, pab-miR949b, pab-miR949c, pab-miR950a-3p, pab-miR950a-5p, pab-miR950b, pab-miR950c, pab-miR950d, pab-miR950e, pab-miR950f, pab-miR950g, pab-miR950h, pab-miR950i, pab-miR951, pal-let-7a-2-3p, pal-let-7a-3p, pal-let-7a-5p, pal-let-7c-3p, pal-let-7c-5p, pal-let-7e-3p, pal-let-7e-5p, pal-let-7f-3p, pal-let-7f-5p, pal-let-7g-3p, pal-let-7g-5p, pal-let-7i-3p, pal-let-7i-5p, pal-miR-1-2-5p, pal-miR-1-3p, pal-miR-1-5p, pal-miR-100-3p, pal-miR-100-5p, pal-miR-10000-3p, pal-miR-10000-5p, pal-miR-10001-3p, pal-miR-10001-5p, pal-miR-10002-3p, pal-miR-10002-5p, pal-miR-10003-3p, pal-miR-10003-5p, pal-miR-10004-3p, pal-miR-10004-5p, pal-miR-10005-3p, pal-miR-10005-5p, pal-miR-10006-3p, pal-miR-10006-5p, pal-miR-10007-3p, pal-miR-10007-5p, pal-miR-10008-3p, pal-miR-10008-5p, pal-miR-10009-3p, pal-miR-10009-5p, pal-miR-10010-3p, pal-miR-10010-5p, pal-miR-10011-3p, pal-miR-10011-5p, pal-miR-10012-3p, pal-miR-10012-5p, pal-miR-10013-3p, pal-miR-10013-5p, pal-miR-10014-3p, pal-miR-10014-5p, pal-miR-10015-3p, pal-miR-10015-5p, pal-miR-10016-3p, pal-miR-10016-5p, pal-miR-10017-2-5p, pal-miR-10017-3p, pal-miR-10017-5p, pal-miR-10018-3p, pal-miR-10018-5p, pal-miR-10019-3p, pal-miR-10019-5p, pal-miR-101-2-5p, pal-miR-101-3p, pal-miR-101-5p, pal-miR-103a-3p, pal-miR-103a-5p, pal-miR-103b-3p, pal-miR-103b-5p, pal-miR-105-3p, pal-miR-105-5p, pal-miR-106a-3p, pal-miR-106a-5p, pal-miR-106b-3p, pal-miR-106b-5p, pal-miR-107a-3p, pal-miR-107a-5p, pal-miR-107b-3p, pal-miR-107b-5p, pal-miR-10a-3p, pal-miR-10a-5p, pal-miR-10b-3p, pal-miR-10b-5p, pal-miR-1180-3p, pal-miR-1180-5p, pal-miR-1185-3p, pal-miR-1185-5p, pal-miR-122-3p, pal-miR-122-5p, pal-miR-1224-3p, pal-miR-1224-5p, pal-miR-124-3p, pal-miR-124-5p, pal-miR-1249-3p, pal-miR-1249-5p, pal-miR-125a-3p, pal-miR-125a-5p, pal-miR-125b-2-3p, pal-miR-125b-3p, pal-miR-125b-5p, pal-miR-126-3p, pal-miR-126-5p, pal-miR-127-3p, pal-miR-127-5p, pal-miR-128-3p, pal-miR-128-5p, pal-miR-1296-3p, pal-miR-1296-5p, pal-miR-129a-3p, pal-miR-

129a-5p, pal-miR-129b-3p, pal-miR-129b-5p, pal-miR-130-3p, pal-miR-130-5p, pal-miR-1301-3p, pal-miR-1301-5p, pal-miR-1306-3p, pal-miR-1306-5p, pal-miR-1307-3p, pal-miR-1307-5p, pal-miR-132-3p, pal-miR-132-5p, pal-miR-133a-3p, pal-miR-133a-5p, pal-miR-133b-3p, pal-miR-133b-5p, pal-miR-135-2-3p, pal-miR-135-3p, pal-miR-135-5p, pal-miR-136-3p, pal-miR-136-5p, pal-miR-137-3p, pal-miR-137-5p, pal-miR-1379-3p, pal-miR-1379-5p, pal-miR-138-2-3p, pal-miR-138-3p, pal-miR-138-5p, pal-miR-1388-3p, pal-miR-1388-5p, pal-miR-139-3p, pal-miR-139-5p, pal-miR-140-3p, pal-miR-140-5p, pal-miR-141-3p, pal-miR-141-5p, pal-miR-142-3p, pal-miR-142-5p, pal-miR-143-3p, pal-miR-143-5p, pal-miR-144-3p, pal-miR-144-5p, pal-miR-145-3p, pal-miR-145-5p, pal-miR-146a-3p, pal-miR-146a-5p, pal-miR-146b-3p, pal-miR-146b-5p, pal-miR-148a-3p, pal-miR-148a-5p, pal-miR-148b-3p, pal-miR-148b-5p, pal-miR-150-3p, pal-miR-150-5p, pal-miR-151-3p, pal-miR-151-5p, pal-miR-152-3p, pal-miR-152-5p, pal-miR-153-2-5p, pal-miR-153-3p, pal-miR-153-5p, pal-miR-154b-3p, pal-miR-154b-5p, pal-miR-155-3p, pal-miR-155-5p, pal-miR-15a-3p, pal-miR-15a-5p, pal-miR-15b-3p, pal-miR-15b-5p, pal-miR-16-2-3p, pal-miR-16-3p, pal-miR-16-5p, pal-miR-17-3p, pal-miR-17-5p, pal-miR-181a-2-3p, pal-miR-181a-3p, pal-miR-181a-5p, pal-miR-181b-2-3p, pal-miR-181b-3p, pal-miR-181b-5p, pal-miR-181c-3p, pal-miR-181c-5p, pal-miR-181d-3p, pal-miR-181d-5p, pal-miR-182-3p, pal-miR-182-5p, pal-miR-183-3p, pal-miR-183-5p, pal-miR-1839-3p, pal-miR-1839-5p, pal-miR-184-3p, pal-miR-184-5p, pal-miR-185-3p, pal-miR-185-5p, pal-miR-186-3p, pal-miR-186-5p, pal-miR-187-3p, pal-miR-187-5p, pal-miR-188-3p, pal-miR-188-5p, pal-miR-18a-3p, pal-miR-18a-5p, pal-miR-18b-3p, pal-miR-18b-5p, pal-miR-19-2-5p, pal-miR-19-3p, pal-miR-19-5p, pal-miR-190b-3p, pal-miR-190b-5p, pal-miR-191-3p, pal-miR-191-5p, pal-miR-1911-3p, pal-miR-1911-5p, pal-miR-192-3p, pal-miR-192-5p, pal-miR-193a-3p, pal-miR-193a-5p, pal-miR-193b-3p, pal-miR-193b-5p, pal-miR-194a-3p, pal-miR-194a-5p, pal-miR-194b-3p, pal-miR-194b-5p, pal-miR-195-3p, pal-miR-195-5p, pal-miR-196a-3p, pal-miR-196a-5p, pal-miR-196b-3p, pal-miR-196b-5p, pal-miR-196c-3p, pal-miR-196c-5p, pal-miR-199-3-5p, pal-miR-199-3p, pal-miR-199-5p, pal-miR-200a-3p, pal-miR-200a-5p, pal-miR-200b-3p, pal-miR-200b-5p, pal-miR-200c-3p, pal-miR-200c-5p, pal-miR-202-3p, pal-miR-202-5p, pal-miR-204-3p, pal-miR-204-5p, pal-miR-205-3p, pal-miR-205-5p, pal-miR-206-3p, pal-miR-206-5p, pal-miR-208a-3p, pal-miR-208a-5p, pal-miR-208b-3p, pal-miR-208b-5p, pal-miR-20a-3p, pal-miR-20a-5p, pal-miR-20b-3p, pal-miR-20b-5p, pal-miR-21-3p, pal-miR-21-5p, pal-miR-211-3p, pal-miR-211-5p, pal-miR-212-3p, pal-miR-212-5p, pal-miR-214-3p, pal-miR-214-5p, pal-miR-215-3p, pal-miR-215-5p, pal-miR-216b-3p, pal-miR-216b-5p, pal-miR-218-2-3p, pal-miR-218-3p, pal-miR-218-5p, pal-miR-219a-2-3p, pal-miR-219a-3p, pal-miR-

219a-5p, pal-miR-219b-3p, pal-miR-219b-5p, pal-miR-22-3p, pal-miR-22-5p, pal-miR-221-3p, pal-miR-221-5p, pal-miR-222-3p, pal-miR-222-5p, pal-miR-224-3p, pal-miR-224-5p, pal-miR-23a-3p, pal-miR-23a-5p, pal-miR-23b-3p, pal-miR-23b-5p, pal-miR-25-3p, pal-miR-25-5p, pal-miR-26a-2-3p, pal-miR-26a-3p, pal-miR-26a-5p, pal-miR-26b-3p, pal-miR-26b-5p, pal-miR-27a-3p, pal-miR-27a-5p, pal-miR-27b-3p, pal-miR-27b-5p, pal-miR-28-3p, pal-miR-28-5p, pal-miR-282-3p, pal-miR-282-5p, pal-miR-296-3p, pal-miR-296-5p, pal-miR-299a-3p, pal-miR-299a-5p, pal-miR-299b-3p, pal-miR-299b-5p, pal-miR-29a-3p, pal-miR-29a-5p, pal-miR-29b-2-5p, pal-miR-29b-3p, pal-miR-29b-5p, pal-miR-29c-3p, pal-miR-29c-5p, pal-miR-301a-3p, pal-miR-301a-5p, pal-miR-301b-3p, pal-miR-301b-5p, pal-miR-3059-3p, pal-miR-3059-5p, pal-miR-3064-3p, pal-miR-3064-5p, pal-miR-3085-3p, pal-miR-3085-5p, pal-miR-30a-3p, pal-miR-30a-5p, pal-miR-30b-3p, pal-miR-30b-5p, pal-miR-30c-3p, pal-miR-30c-5p, pal-miR-30d-3p, pal-miR-30d-5p, pal-miR-30e-3p, pal-miR-30e-5p, pal-miR-31-3p, pal-miR-31-5p, pal-miR-3120-3p, pal-miR-3120-5p, pal-miR-32-3p, pal-miR-32-5p, pal-miR-320-3p, pal-miR-320-5p, pal-miR-323-3p, pal-miR-323-5p, pal-miR-323b-3p, pal-miR-323b-5p, pal-miR-324-3p, pal-miR-324-5p, pal-miR-329b-3p, pal-miR-329b-5p, pal-miR-330-3p, pal-miR-330-5p, pal-miR-331-3p, pal-miR-331-5p, pal-miR-335-3p, pal-miR-335-5p, pal-miR-337-3p, pal-miR-337-5p, pal-miR-338-3p, pal-miR-338-5p, pal-miR-339a-3p, pal-miR-339a-5p, pal-miR-339b-3p, pal-miR-339b-5p, pal-miR-33a-3p, pal-miR-33a-5p, pal-miR-33b-3p, pal-miR-33b-5p, pal-miR-340-3p, pal-miR-340-5p, pal-miR-342-3p, pal-miR-342-5p, pal-miR-345-3p, pal-miR-345-5p, pal-miR-346-3p, pal-miR-346-5p, pal-miR-34a-3p, pal-miR-34a-5p, pal-miR-34b-3p, pal-miR-34b-5p, pal-miR-34c-3p, pal-miR-34c-5p, pal-miR-361-3p, pal-miR-361-5p, pal-miR-362-3p, pal-miR-362-5p, pal-miR-363-3p, pal-miR-363-5p, pal-miR-365b-3p, pal-miR-365b-5p, pal-miR-369-3p, pal-miR-369-5p, pal-miR-370-3p, pal-miR-370-5p, pal-miR-371-3p, pal-miR-371-5p, pal-miR-374b-3p, pal-miR-374b-5p, pal-miR-375-3p, pal-miR-375-5p, pal-miR-376a-3p, pal-miR-376a-5p, pal-miR-376b-3p, pal-miR-376b-5p, pal-miR-376c-3p, pal-miR-376c-5p, pal-miR-376d-3p, pal-miR-376d-5p, pal-miR-377-3p, pal-miR-377-5p, pal-miR-378-3p, pal-miR-378-5p, pal-miR-378c-3p, pal-miR-378c-5p, pal-miR-378d-3p, pal-miR-378d-5p, pal-miR-378e-3p, pal-miR-378e-5p, pal-miR-379-3p, pal-miR-379-5p, pal-miR-380-3p, pal-miR-380-5p, pal-miR-381-3p, pal-miR-381-5p, pal-miR-382-3p, pal-miR-382-5p, pal-miR-383-3p, pal-miR-383-5p, pal-miR-3958-3p, pal-miR-3958-5p, pal-miR-3959-3p, pal-miR-3959-5p, pal-miR-409-3p, pal-miR-409-5p, pal-miR-410-3p, pal-miR-410-5p, pal-miR-411-3p, pal-miR-411-5p, pal-miR-412-3p, pal-miR-412-5p, pal-miR-421-3p, pal-miR-421-5p, pal-miR-422c-3p, pal-miR-422c-5p, pal-miR-423-3p, pal-miR-423-5p, pal-miR-424-3p, pal-miR-424-5p, pal-miR-

425-3p, pal-miR-425-5p, pal-miR-429-3p, pal-miR-429-5p, pal-miR-432-3p, pal-miR-432-5p, pal-miR-433-3p, pal-miR-433-5p, pal-miR-449a-3p, pal-miR-449a-5p, pal-miR-449c-3p, pal-miR-449c-5p, pal-miR-450a-2-3p, pal-miR-450a-3p, pal-miR-450a-5p, pal-miR-450b-3p, pal-miR-450b-5p, pal-miR-452-3p, pal-miR-452-5p, pal-miR-454-3p, pal-miR-454-5p, pal-miR-458-3p, pal-miR-458-5p, pal-miR-4646-3p, pal-miR-4646-5p, pal-miR-4657-3p, pal-miR-4657-5p, pal-miR-484-3p, pal-miR-484-5p, pal-miR-485-3p, pal-miR-485-5p, pal-miR-486a-3-3p, pal-miR-486a-3p, pal-miR-486a-5p, pal-miR-487a-3p, pal-miR-487a-5p, pal-miR-487b-3p, pal-miR-487b-5p, pal-miR-490-3p, pal-miR-490-5p, pal-miR-493-3p, pal-miR-493-5p, pal-miR-495-3p, pal-miR-495-5p, pal-miR-497-3p, pal-miR-497-5p, pal-miR-499a-3p, pal-miR-499a-5p, pal-miR-500-3p, pal-miR-500-5p, pal-miR-502-3p, pal-miR-502-5p, pal-miR-503-3p, pal-miR-503-5p, pal-miR-504-3p, pal-miR-504-5p, pal-miR-506-3p, pal-miR-506-5p, pal-miR-507-3p, pal-miR-507-5p, pal-miR-509b-3p, pal-miR-509b-5p, pal-miR-513-3p, pal-miR-513-5p, pal-miR-532-3p, pal-miR-532-5p, pal-miR-541-3p, pal-miR-541-5p, pal-miR-542-3p, pal-miR-542-5p, pal-miR-543-3p, pal-miR-543-5p, pal-miR-544-3p, pal-miR-544-5p, pal-miR-551b-3p, pal-miR-551b-5p, pal-miR-574-3p, pal-miR-574-5p, pal-miR-599-3p, pal-miR-599-5p, pal-miR-6119-3p, pal-miR-6119-5p, pal-miR-628-3p, pal-miR-628-5p, pal-miR-652-3p, pal-miR-652-5p, pal-miR-6529-3p, pal-miR-6529-5p, pal-miR-656-3p, pal-miR-656-5p, pal-miR-660-3p, pal-miR-660-5p, pal-miR-664a-2-5p, pal-miR-664a-3p, pal-miR-664a-5p, pal-miR-664b-3p, pal-miR-664b-5p, pal-miR-665-3p, pal-miR-665-5p, pal-miR-668-3p, pal-miR-668-5p, pal-miR-672-3p, pal-miR-672-5p, pal-miR-708-3p, pal-miR-708-5p, pal-miR-7140-3p, pal-miR-7140-5p, pal-miR-758-3p, pal-miR-758-5p, pal-miR-760-3p, pal-miR-760-5p, pal-miR-7a-3p, pal-miR-7a-5p, pal-miR-7b-2-3p, pal-miR-7b-3p, pal-miR-7b-5p, pal-miR-802-3p, pal-miR-802-5p, pal-miR-873-3p, pal-miR-873-5p, pal-miR-874-3p, pal-miR-874-5p, pal-miR-876-3p, pal-miR-876-5p, pal-miR-885-3p, pal-miR-885-5p, pal-miR-889-3p, pal-miR-889-5p, pal-miR-8908a-2-3p, pal-miR-8908a-3p, pal-miR-8908a-5p, pal-miR-8908b-3p, pal-miR-8908b-5p, pal-miR-8908c-3p, pal-miR-8908c-5p, pal-miR-8908d-3p, pal-miR-8908d-5p, pal-miR-8908e-3p, pal-miR-8908e-5p, pal-miR-8908f-3p, pal-miR-8908f-5p, pal-miR-8908g-3p, pal-miR-8908g-5p, pal-miR-9-3p, pal-miR-9-5p, pal-miR-9226-3p, pal-miR-9226-5p, pal-miR-9287-3p, pal-miR-9287-5p, pal-miR-9298-3p, pal-miR-9298-5p, pal-miR-92a-2-5p, pal-miR-92a-3p, pal-miR-92a-5p, pal-miR-92b-3p, pal-miR-92b-5p, pal-miR-93-3p, pal-miR-93-5p, pal-miR-96-3p, pal-miR-96-5p, pal-miR-98-3p, pal-miR-98-5p, pal-miR-9987-3p, pal-miR-9987-5p, pal-miR-9988-3p, pal-miR-9988-5p, pal-miR-9989-3p, pal-miR-9989-5p, pal-miR-9990-3p, pal-miR-9990-5p, pal-miR-9991-3p, pal-miR-9991-5p, pal-miR-9992-3p, pal-miR-9992-5p, pal-miR-9993a-3p,

pal-miR-9993a-5p, pal-miR-9993b-3p, pal-miR-9993b-5p, pal-miR-9994-3p, pal-miR-9994-5p, pal-miR-9995-3p, pal-miR-9995-5p, pal-miR-9996-3p, pal-miR-9996-5p, pal-miR-9997-3p, pal-miR-9997-5p, pal-miR-9998-3p, pal-miR-9998-5p, pal-miR-9999-3p, pal-miR-9999-5p, pal-miR-99a-3p, pal-miR-99a-5p, pal-miR-99b-3p, pal-miR-99b-5p, pbi-miR-506, pbi-miR-507, pbi-miR-508, pbi-miR-509, pbi-miR-510, pbi-miR-513a, pbi-miR-513b, pbi-miR-513c, pbi-miR-514, pbv-let-7a-2-3p, pbv-let-7a-3p, pbv-let-7a-5p, pbv-let-7b-3p, pbv-let-7b-5p, pbv-let-7c-2-3p, pbv-let-7c-3p, pbv-let-7c-5p, pbv-let-7d-3p, pbv-let-7d-5p, pbv-let-7e-3p, pbv-let-7e-5p, pbv-let-7f-2-3p, pbv-let-7f-3p, pbv-let-7f-5p, pbv-let-7g-3p, pbv-let-7g-5p, pbv-let-7i-3p, pbv-let-7i-5p, pbv-miR-100-3p, pbv-miR-100-5p, pbv-miR-101-2-5p, pbv-miR-101-3p, pbv-miR-101-5p, pbv-miR-103-3p, pbv-miR-106-3p, pbv-miR-106-5p, pbv-miR-107-3p, pbv-miR-107-5p, pbv-miR-10a-3p, pbv-miR-10a-5p, pbv-miR-10b-2-3p, pbv-miR-10b-3p, pbv-miR-10b-5p, pbv-miR-122-3p, pbv-miR-122-5p, pbv-miR-124a-3p, pbv-miR-124a-5p, pbv-miR-124b-3p, pbv-miR-124b-5p, pbv-miR-125a-5p, pbv-miR-125b-3p, pbv-miR-125b-5p, pbv-miR-126-3p, pbv-miR-126-5p, pbv-miR-128-3p, pbv-miR-128-5p, pbv-miR-129a-3p, pbv-miR-129a-5p, pbv-miR-129b-3p, pbv-miR-129b-5p, pbv-miR-1306-3p, pbv-miR-130a-3p, pbv-miR-130a-5p, pbv-miR-130b-3p, pbv-miR-130c-3p, pbv-miR-130c-5p, pbv-miR-130d-3p, pbv-miR-130d-5p, pbv-miR-132-3p, pbv-miR-132-5p, pbv-miR-1329-3p, pbv-miR-1329-5p, pbv-miR-133a-2-5p, pbv-miR-133a-3p, pbv-miR-133a-5p, pbv-miR-133b-3p, pbv-miR-133b-5p, pbv-miR-133c-3p, pbv-miR-135-2-3p, pbv-miR-135-3-3p, pbv-miR-135-3p, pbv-miR-135-5p, pbv-miR-137a-3p, pbv-miR-137a-5p, pbv-miR-137b-3p, pbv-miR-137b-5p, pbv-miR-138-3p, pbv-miR-138-5p, pbv-miR-1388-3p, pbv-miR-1388-5p, pbv-miR-139-3p, pbv-miR-139-5p, pbv-miR-1397-3p, pbv-miR-1397-5p, pbv-miR-142-3p, pbv-miR-142-5p, pbv-miR-143-3p, pbv-miR-143-5p, pbv-miR-144-3p, pbv-miR-144-5p, pbv-miR-145-3p, pbv-miR-145-5p, pbv-miR-146a-5p, pbv-miR-146b-5p, pbv-miR-147-3p, pbv-miR-148a-3p, pbv-miR-148a-5p, pbv-miR-148b-3p, pbv-miR-148b-5p, pbv-miR-150-3p, pbv-miR-150-5p, pbv-miR-153-2-5p, pbv-miR-153-3p, pbv-miR-153-5p, pbv-miR-155a-5p, pbv-miR-155b-5p, pbv-miR-15a-3p, pbv-miR-15a-5p, pbv-miR-15b-3p, pbv-miR-15b-5p, pbv-miR-1641-5p, pbv-miR-1662-5p, pbv-miR-1677-3p, pbv-miR-1677-5p, pbv-miR-16a-5p, pbv-miR-16b-3p, pbv-miR-16b-5p, pbv-miR-16c-3p, pbv-miR-16c-5p, pbv-miR-17-3p, pbv-miR-17-5p, pbv-miR-1788-3p, pbv-miR-1788-5p, pbv-miR-1805-3p, pbv-miR-1805-5p, pbv-miR-181a-3p, pbv-miR-181a-5p, pbv-miR-181b-3p, pbv-miR-181b-5p, pbv-miR-181c-5p, pbv-miR-182-3p, pbv-miR-182-5p, pbv-miR-183-5p, pbv-miR-184-3p, pbv-miR-18a-3p, pbv-miR-18a-5p, pbv-miR-18b-5p, pbv-miR-190a-3p, pbv-miR-190a-5p, pbv-miR-190b-5p, pbv-miR-191-3p, pbv-miR-191-5p, pbv-miR-193a-3p, pbv-miR-193a-5p, pbv-

miR-193b-3p, pbv-miR-194-5p, pbv-miR-196a-3p, pbv-miR-196a-5p, pbv-miR-196c-5p, pbv-miR-199-3-5p, pbv-miR-199-3p, pbv-miR-199-5p, pbv-miR-19a-3p, pbv-miR-19a-5p, pbv-miR-19b-3p, pbv-miR-1a-2-5p, pbv-miR-1a-3p, pbv-miR-1a-5p, pbv-miR-1b-3p, pbv-miR-1b-5p, pbv-miR-200a-3p, pbv-miR-200a-5p, pbv-miR-200b-3p, pbv-miR-200b-5p, pbv-miR-202-5p, pbv-miR-203-3p, pbv-miR-203-5p, pbv-miR-204-3-3p, pbv-miR-204-3p, pbv-miR-204-5p, pbv-miR-205a-5p, pbv-miR-205b-5p, pbv-miR-206-3p, pbv-miR-208-3p, pbv-miR-208-5p, pbv-miR-20a-5p, pbv-miR-20b-3p, pbv-miR-20b-5p, pbv-miR-21-3p, pbv-miR-21-5p, pbv-miR-210-3p, pbv-miR-210-5p, pbv-miR-212-3p, pbv-miR-212-5p, pbv-miR-214-3p, pbv-miR-214-5p, pbv-miR-215-3p, pbv-miR-215-5p, pbv-miR-216a-3p, pbv-miR-216a-5p, pbv-miR-216b-3p, pbv-miR-216b-5p, pbv-miR-217-5p, pbv-miR-218-3p, pbv-miR-218-5p, pbv-miR-2188-3p, pbv-miR-2188-5p, pbv-miR-219-3p, pbv-miR-219-5p, pbv-miR-22-3p, pbv-miR-22-5p, pbv-miR-221-3p, pbv-miR-221-5p, pbv-miR-222a-3p, pbv-miR-222a-5p, pbv-miR-222b-3p, pbv-miR-222b-5p, pbv-miR-223-3p, pbv-miR-23a-3p, pbv-miR-23b-3p, pbv-miR-23b-5p, pbv-miR-24-3p, pbv-miR-24-5p, pbv-miR-26-3-3p, pbv-miR-26-3p, pbv-miR-26-5p, pbv-miR-27a-3p, pbv-miR-27a-5p, pbv-miR-27b-3p, pbv-miR-27b-5p, pbv-miR-2970-3p, pbv-miR-2970-5p, pbv-miR-29a-2-5p, pbv-miR-29a-3p, pbv-miR-29a-5p, pbv-miR-29b-3p, pbv-miR-29b-5p, pbv-miR-301a-3p, pbv-miR-301a-5p, pbv-miR-301b-3p, pbv-miR-3064-3p, pbv-miR-30a-3p, pbv-miR-30a-5p, pbv-miR-30b-5p, pbv-miR-30c-2-3p, pbv-miR-30c-3p, pbv-miR-30c-5p, pbv-miR-30d-3p, pbv-miR-30d-5p, pbv-miR-30e-3p, pbv-miR-30e-5p, pbv-miR-31-5p, pbv-miR-32-5p, pbv-miR-33-3p, pbv-miR-33-5p, pbv-miR-338-3p, pbv-miR-338-5p, pbv-miR-34a-5p, pbv-miR-34b-3p, pbv-miR-34b-5p, pbv-miR-34c-3p, pbv-miR-34c-5p, pbv-miR-3618-5p, pbv-miR-363-3p, pbv-miR-365-3p, pbv-miR-375-3p, pbv-miR-383-3p, pbv-miR-383-5p, pbv-miR-425-3p, pbv-miR-425-5p, pbv-miR-429-3p, pbv-miR-449a-5p, pbv-miR-449b-3p, pbv-miR-449b-5p, pbv-miR-449c-5p, pbv-miR-449d-5p, pbv-miR-454-3p, pbv-miR-455-3p, pbv-miR-455-5p, pbv-miR-456-3p, pbv-miR-456-5p, pbv-miR-458-3p, pbv-miR-489-3p, pbv-miR-490-3p, pbv-miR-490-5p, pbv-miR-499-3p, pbv-miR-499-5p, pbv-miR-5420-3p, pbv-miR-551a-3p, pbv-miR-551b-3p, pbv-miR-551b-5p, pbv-miR-599-3p, pbv-miR-7-2-3p, pbv-miR-7-3-3p, pbv-miR-7-3p, pbv-miR-7-5p, pbv-miR-737-3p, pbv-miR-737-5p, pbv-miR-875-5p, pbv-miR-9-3p, pbv-miR-9-4-3p, pbv-miR-9-5p, pbv-miR-92a-3p, pbv-miR-92b-3p, pbv-miR-96-3p, pbv-miR-96-5p, pbv-miR-9650-3p, pbv-miR-9650-5p, pbv-miR-9651-3p, pbv-miR-9651-5p, pbv-miR-98-3p, pbv-miR-98-5p, pbv-miR-99a-3p, pbv-miR-99a-5p, pbv-miR-99b-3p, pbv-miR-99b-5p, pca-bantam-3p, pca-bantam-5p, pca-iab-4-3p, pca-iab-4-5p, pca-let-7-3p, pca-let-7-5p, pca-miR-1-3p, pca-miR-1-5p, pca-miR-100-3p, pca-miR-100-5p, pca-miR-1000-3p, pca-miR-1000-

5p, pca-miR-11-3p, pca-miR-11-5p, pca-miR-11663-3p, pca-miR-11663-5p, pca-miR-11664a-3p, pca-miR-11664a-5p, pca-miR-11664b-3p, pca-miR-11664b-5p, pca-miR-11665-3p, pca-miR-11665-5p, pca-miR-1175-3p, pca-miR-1175-5p, pca-miR-12-3p, pca-miR-12-5p, pca-miR-124-3p, pca-miR-124-5p, pca-miR-133-3p, pca-miR-133-5p, pca-miR-137-3p, pca-miR-137-5p, pca-miR-13a-3p, pca-miR-13a-5p, pca-miR-13b-3p, pca-miR-13b-5p, pca-miR-14-3p, pca-miR-14-5p, pca-miR-184-3p, pca-miR-184-5p, pca-miR-190-3p, pca-miR-190-5p, pca-miR-210-3p, pca-miR-210-5p, pca-miR-219-3p, pca-miR-219-5p, pca-miR-252-3p, pca-miR-252-5p, pca-miR-263b-3p, pca-miR-263b-5p, pca-miR-275-3p, pca-miR-275-5p, pca-miR-276-3p, pca-miR-276-5p, pca-miR-2765-3p, pca-miR-2765-5p, pca-miR-277-3p, pca-miR-277-5p, pca-miR-278-3p, pca-miR-278-5p, pca-miR-2796-3p, pca-miR-2796-5p, pca-miR-279b-3p, pca-miR-279b-5p, pca-miR-279c-3p, pca-miR-279c-5p, pca-miR-281-3p, pca-miR-281-5p, pca-miR-282-3p, pca-miR-282-5p, pca-miR-283-3p, pca-miR-283-5p, pca-miR-29-3p, pca-miR-3049-3p, pca-miR-3049-5p, pca-miR-305-3p, pca-miR-305-5p, pca-miR-306-3p, pca-miR-306-5p, pca-miR-31-3p, pca-miR-31-5p, pca-miR-315-3p, pca-miR-315-5p, pca-miR-316-3p, pca-miR-316-5p, pca-miR-317-3p, pca-miR-317-5p, pca-miR-33-3p, pca-miR-33-5p, pca-miR-34-3p, pca-miR-34-5p, pca-miR-3736-5p, pca-miR-3759-3p, pca-miR-3770-5p, pca-miR-3782-5p, pca-miR-3783-3p, pca-miR-3783-5p, pca-miR-3785-3p, pca-miR-3785-5p, pca-miR-3786-3p, pca-miR-3786-5p, pca-miR-6001-3p, pca-miR-6001-5p, pca-miR-6038-3p, pca-miR-6038-5p, pca-miR-6039-3p, pca-miR-6039-5p, pca-miR-6065-3p, pca-miR-6067-3p, pca-miR-6067-5p, pca-miR-7-3p, pca-miR-7-5p, pca-miR-71-3p, pca-miR-71-5p, pca-miR-750-3p, pca-miR-750-5p, pca-miR-8-3p, pca-miR-8-5p, pca-miR-9-3p, pca-miR-9-5p, pca-miR-927a-3p, pca-miR-927a-5p, pca-miR-927b-3p, pca-miR-927b-5p, pca-miR-929-3p, pca-miR-929-5p, pca-miR-92c-3p, pca-miR-92c-5p, pca-miR-932-3p, pca-miR-932-5p, pca-miR-965-3p, pca-miR-965-5p, pca-miR-971-3p, pca-miR-971-5p, pca-miR-980-3p, pca-miR-980-5p, pca-miR-981-3p, pca-miR-981-5p, pca-miR-995-3p, pca-miR-995-5p, pde-miR1311, pde-miR1312, pde-miR1313, pde-miR1314, pde-miR159, pde-miR162, pde-miR166a, pde-miR166b, pde-miR169, pde-miR171, pde-miR3701, pde-miR3704a, pde-miR3704b, pde-miR3712, pde-miR390, pde-miR396, pde-miR482a, pde-miR482b, pde-miR482c, pde-miR482d, pde-miR946, pde-miR947, pde-miR949a, pde-miR949b, pde-miR950, pde-miR951, pde-miR952a, pde-miR952b, pde-miR952c, peu-miR2912a, peu-miR2912b, peu-miR2913, peu-miR2916, pgi-miR2118, pgi-miR391, pgi-miR482a, pgi-miR482b, pgi-miR6135a, pgi-miR6135b, pgi-miR6135c, pgi-miR6135d, pgi-miR6135e-5p, pgi-miR6135e.2-5p, pgi-miR6135f, pgi-miR6135g, pgi-miR6135h, pgi-miR6135i, pgi-miR6135j, pgi-miR6135k, pgi-miR6136a.1, pgi-miR6136a.2,

pgi-miR6136b, pgi-miR6137a, pgi-miR6137b, pgi-miR6138, pgi-miR6139, pgi-miR6140a, pgi-miR6140b, pgi-miR6140c, pgi-miR6140d, pgi-miR6141, pgi-miR6142, pgi-miR6143a, pgi-miR6143b-3p, pgi-miR6143b-5p, pha-let-7a, pha-let-7b, pha-let-7c, pha-let-7e, pha-let-7f, pha-let-7g, pha-let-7i, pha-miR-100, pha-miR-101, pha-miR-103a, pha-miR-103b, pha-miR-106b, pha-miR-107, pha-miR-10a, pha-miR-10b, pha-miR-125a, pha-miR-125b, pha-miR-127, pha-miR-1307, pha-miR-130a, pha-miR-130b, pha-miR-132, pha-miR-140, pha-miR-143, pha-miR-145, pha-miR-146a, pha-miR-146b, pha-miR-148a, pha-miR-148b, pha-miR-151, pha-miR-152, pha-miR-155, pha-miR-16, pha-miR-181a, pha-miR-181b, pha-miR-181c, pha-miR-186, pha-miR-191, pha-miR-193a, pha-miR-193b, pha-miR-196a, pha-miR-199, pha-miR-19b, pha-miR-21, pha-miR-210, pha-miR-214, pha-miR-22, pha-miR-221, pha-miR-222, pha-miR-23a, pha-miR-23b, pha-miR-24, pha-miR-25, pha-miR-26a, pha-miR-26b, pha-miR-27a, pha-miR-27b, pha-miR-299, pha-miR-29a, pha-miR-30a, pha-miR-30c, pha-miR-30d, pha-miR-30e, pha-miR-31, pha-miR-320a, pha-miR-320b, pha-miR-340, pha-miR-361, pha-miR-378, pha-miR-381, pha-miR-409, pha-miR-411a, pha-miR-423, pha-miR-502b, pha-miR-532, pha-miR-582, pha-miR-660, pha-miR-708, pha-miR-760, pha-miR-769, pha-miR-877, pha-miR-887, pha-miR-92a, pha-miR-93, pha-miR-98, pha-miR-99a, pin-miR8788-3p, pin-miR8788-5p, pla-miR11598, pla-miR11599, pla-miR11600, pla-miR11601, pla-miR11602, pla-miR11603, pla-miR11604, pla-miR11605, pla-miR11606, pla-miR11607, pla-miR11608, pla-miR11609, pla-miR11610, pla-miR11611, pla-miR11612, pma-let-7a, pma-let-7b-3p, pma-let-7b-5p, pma-let-7c, pma-let-7d, pma-miR-100a-3p, pma-miR-100a-5p, pma-miR-100b, pma-miR-100c, pma-miR-103a, pma-miR-103b-3p, pma-miR-103b-5p, pma-miR-10a, pma-miR-10b-3p, pma-miR-10b-5p, pma-miR-124-3p, pma-miR-124-5p, pma-miR-125-3p, pma-miR-125-5p, pma-miR-126, pma-miR-128, pma-miR-129a-3p, pma-miR-129a-5p, pma-miR-130a-3p, pma-miR-130a-5p, pma-miR-130b, pma-miR-130c, pma-miR-130d, pma-miR-130e, pma-miR-132-3p, pma-miR-132-5p, pma-miR-1329, pma-miR-133a, pma-miR-133b-3p, pma-miR-133b-5p, pma-miR-135a-3p, pma-miR-135a-5p, pma-miR-135b, pma-miR-137-1-5p, pma-miR-137-2-5p, pma-miR-137-3p, pma-miR-138a, pma-miR-138b, pma-miR-140, pma-miR-143-3p, pma-miR-143-5p, pma-miR-144-3p, pma-miR-144-5p, pma-miR-145-3p, pma-miR-145-5p, pma-miR-146-3p, pma-miR-146-5p, pma-miR-147, pma-miR-152a, pma-miR-152b, pma-miR-153-3p, pma-miR-153-5p, pma-miR-155, pma-miR-15a, pma-miR-15b, pma-miR-16-3p, pma-miR-16-5p, pma-miR-1788a-3p, pma-miR-1788a-5p, pma-miR-1788b-3p, pma-miR-17a-3p, pma-miR-17a-5p, pma-miR-17b, pma-miR-17c, pma-miR-181a-3p, pma-miR-181a-5p, pma-miR-181b-3p, pma-miR-181b-5p, pma-miR-182, pma-miR-183-3p, pma-miR-183-5p, pma-miR-184, pma-miR-18a-3p, pma-

miR-18a-5p, pma-miR-18b-3p, pma-miR-18b-5p, pma-miR-190a, pma-miR-190b-3p, pma-miR-190b-5p, pma-miR-192-3p, pma-miR-192-5p, pma-miR-193, pma-miR-194-3p, pma-miR-194-5p, pma-miR-196a-3p, pma-miR-196a-5p, pma-miR-196b, pma-miR-199a-3p, pma-miR-199a-5p, pma-miR-199b-3p, pma-miR-199b-5p, pma-miR-19a, pma-miR-19b-3p, pma-miR-19b-5p, pma-miR-19c, pma-miR-1a-3p, pma-miR-1a-5p, pma-miR-1b, pma-miR-1c-3p, pma-miR-1c-5p, pma-miR-1d, pma-miR-200b-3p, pma-miR-200b-5p, pma-miR-203a-3p, pma-miR-203a-5p, pma-miR-203b-3p, pma-miR-203b-5p, pma-miR-204-3p, pma-miR-204-5p, pma-miR-205a-3p, pma-miR-205a-5p, pma-miR-205b, pma-miR-208-3p, pma-miR-208-5p, pma-miR-20a-3p, pma-miR-20a-5p, pma-miR-20b, pma-miR-210, pma-miR-212-3p, pma-miR-212-5p, pma-miR-216a-3p, pma-miR-216a-5p, pma-miR-216b, pma-miR-217a, pma-miR-218a-3p, pma-miR-218a-5p, pma-miR-218b, pma-miR-221, pma-miR-222-3p, pma-miR-222-5p, pma-miR-22a-3p, pma-miR-22a-5p, pma-miR-22b-3p, pma-miR-22b-5p, pma-miR-23a-3p, pma-miR-23a-5p, pma-miR-23b, pma-miR-24, pma-miR-25b-3p, pma-miR-25b-5p, pma-miR-26a-1-3p, pma-miR-26a-2-3p, pma-miR-26a-5p, pma-miR-26b-3p, pma-miR-26b-5p, pma-miR-27a, pma-miR-27b-3p, pma-miR-27b-5p, pma-miR-281a, pma-miR-29a-3p, pma-miR-29a-5p, pma-miR-29b, pma-miR-29c, pma-miR-29d-3p, pma-miR-29d-5p, pma-miR-301a, pma-miR-301b, pma-miR-302, pma-miR-30a-3p, pma-miR-30a-5p, pma-miR-30b, pma-miR-30c-3p, pma-miR-30c-5p, pma-miR-30d, pma-miR-30e-3p, pma-miR-30e-5p, pma-miR-30f, pma-miR-30g, pma-miR-31, pma-miR-315, pma-miR-338b, pma-miR-33a, pma-miR-33b, pma-miR-375a-3p, pma-miR-375a-5p, pma-miR-375b-3p, pma-miR-375b-5p, pma-miR-429-3p, pma-miR-429-5p, pma-miR-430a, pma-miR-430b, pma-miR-430c, pma-miR-430d, pma-miR-430e, pma-miR-430f, pma-miR-451, pma-miR-4541, pma-miR-4542-3p, pma-miR-4542-5p, pma-miR-4543, pma-miR-4544-3p, pma-miR-4544-5p, pma-miR-4545-3p, pma-miR-4545-5p, pma-miR-4546, pma-miR-4547-3p, pma-miR-4547-5p, pma-miR-4548, pma-miR-4549, pma-miR-4550, pma-miR-4551, pma-miR-4552, pma-miR-4553, pma-miR-4554, pma-miR-4555, pma-miR-4556, pma-miR-4557, pma-miR-4558, pma-miR-4559, pma-miR-456, pma-miR-4560, pma-miR-4561, pma-miR-4562, pma-miR-4563, pma-miR-4564, pma-miR-4565, pma-miR-4566, pma-miR-4567, pma-miR-4568, pma-miR-4569, pma-miR-4570, pma-miR-4571-3p, pma-miR-4571-5p, pma-miR-4572, pma-miR-4573, pma-miR-4574, pma-miR-4575, pma-miR-4576, pma-miR-4577, pma-miR-4578, pma-miR-4579, pma-miR-4580, pma-miR-4581, pma-miR-4582, pma-miR-4583, pma-miR-4584, pma-miR-4585, pma-miR-4586, pma-miR-4587, pma-miR-4588, pma-miR-4589, pma-miR-459, pma-miR-4590, pma-miR-4591, pma-miR-4592, pma-miR-4593, pma-miR-4594, pma-miR-4595, pma-miR-4596, pma-miR-4597, pma-miR-4598, pma-miR-

4599a, pma-miR-4599b, pma-miR-4600, pma-miR-4601, pma-miR-4602, pma-miR-4603, pma-miR-4604, pma-miR-4605, pma-miR-4606, pma-miR-4607, pma-miR-4608, pma-miR-4609, pma-miR-4610, pma-miR-4611, pma-miR-4612, pma-miR-4613, pma-miR-4614, pma-miR-4615, pma-miR-4616, pma-miR-4617, pma-miR-4618, pma-miR-4619, pma-miR-4620, pma-miR-4621, pma-miR-4622, pma-miR-4623, pma-miR-4624, pma-miR-4625, pma-miR-4626, pma-miR-4627, pma-miR-4628, pma-miR-4629, pma-miR-4630, pma-miR-4631, pma-miR-497-3p, pma-miR-497-5p, pma-miR-551, pma-miR-7a-3p, pma-miR-7a-5p, pma-miR-7b, pma-miR-875, pma-miR-92a, pma-miR-96a, pma-miR-9a-3p, pma-miR-9a-5p, pma-miR-9b, pmi-let-7-5p, pmi-miR-1-3p, pmi-miR-10-5p, pmi-miR-100-5p, pmi-miR-124-3p, pmi-miR-125-5p, pmi-miR-133-3p, pmi-miR-137-3p, pmi-miR-153-3p, pmi-miR-184-3p, pmi-miR-193-3p, pmi-miR-200-3p, pmi-miR-200-5p, pmi-miR-2001-5p, pmi-miR-2002-3p, pmi-miR-2004-3p, pmi-miR-2005-5p, pmi-miR-2006-3p, pmi-miR-2006-5p, pmi-miR-2007-5p, pmi-miR-2008-3p, pmi-miR-2009-3p, pmi-miR-2010-3p, pmi-miR-2011-3p, pmi-miR-2011-5p, pmi-miR-2012-5p, pmi-miR-2013-3p, pmi-miR-210-3p, pmi-miR-219-5p, pmi-miR-22-3p, pmi-miR-242-5p, pmi-miR-252a-5p, pmi-miR-252b-5p, pmi-miR-263-5p, pmi-miR-278-3p, pmi-miR-29a-3p, pmi-miR-29b-3p, pmi-miR-31-5p, pmi-miR-33-5p, pmi-miR-34-5p, pmi-miR-375-3p, pmi-miR-7-5p, pmi-miR-71-5p, pmi-miR-9-5p, pmi-miR-92a-3p, pmi-miR-92b-3p, pmi-miR-92c-3p, pmi-miR-92d-3p, pmi-miR-96-5p, pmi-miR-981-3p, pny-let-7a, pny-let-7b, pny-let-7c, pny-let-7d, pny-let-7e, pny-let-7f, pny-let-7g, pny-let-7h, pny-let-7i, pny-miR-1, pny-miR-100, pny-miR-101a, pny-miR-101b, pny-miR-103, pny-miR-10544, pny-miR-10549, pny-miR-10553, pny-miR-10555, pny-miR-10566, pny-miR-106, pny-miR-107, pny-miR-10a, pny-miR-10b, pny-miR-10c, pny-miR-10d, pny-miR-122, pny-miR-124, pny-miR-125a, pny-miR-125b, pny-miR-125c, pny-miR-126, pny-miR-128, pny-miR-129, pny-miR-130a, pny-miR-130b-3p, pny-miR-130b-5p, pny-miR-132, pny-miR-132-2, pny-miR-133, pny-miR-135a, pny-miR-135b, pny-miR-135c-3p, pny-miR-135c-5p, pny-miR-135d, pny-miR-137, pny-miR-138, pny-miR-1388, pny-miR-139, pny-miR-140, pny-miR-142, pny-miR-144, pny-miR-146, pny-miR-147, pny-miR-148-3p, pny-miR-148-5p, pny-miR-150, pny-miR-153a, pny-miR-153b, pny-miR-153c, pny-miR-155, pny-miR-15a, pny-miR-15b, pny-miR-15c-3p, pny-miR-15c-5p, pny-miR-16a, pny-miR-16b, pny-miR-17, pny-miR-181a, pny-miR-181b, pny-miR-182, pny-miR-183, pny-miR-184a, pny-miR-184b, pny-miR-187, pny-miR-18a, pny-miR-18b, pny-miR-190a, pny-miR-190b, pny-miR-192, pny-miR-194a, pny-miR-194b, pny-miR-196a, pny-miR-196b, pny-miR-199, pny-miR-19a, pny-miR-19b, pny-miR-19c, pny-miR-19d, pny-miR-200a, pny-miR-200b, pny-miR-203, pny-miR-204, pny-miR-205, pny-miR-206, pny-miR-20a, pny-miR-20b, pny-miR-21, pny-miR-

212, pny-miR-212-2, pny-miR-214, pny-miR-216a, pny-miR-216b, pny-miR-2187a, pny-miR-2187b, pny-miR-2188, pny-miR-218a, pny-miR-218b, pny-miR-219a, pny-miR-219b, pny-miR-221, pny-miR-222, pny-miR-22a, pny-miR-22b, pny-miR-22c, pny-miR-23a, pny-miR-23b, pny-miR-23c, pny-miR-24a, pny-miR-24a-3, pny-miR-24a-4, pny-miR-24b, pny-miR-25, pny-miR-26a, pny-miR-26b, pny-miR-27a, pny-miR-27b, pny-miR-27d-3p, pny-miR-27d-5p, pny-miR-27e, pny-miR-29a, pny-miR-29b, pny-miR-301a, pny-miR-301b, pny-miR-301b-1, pny-miR-30a, pny-miR-30b, pny-miR-30c, pny-miR-30d, pny-miR-31, pny-miR-3120, pny-miR-33, pny-miR-338, pny-miR-34, pny-miR-365, pny-miR-375, pny-miR-429b, pny-miR-430a, pny-miR-430b, pny-miR-449a, pny-miR-455, pny-miR-456, pny-miR-457, pny-miR-458, pny-miR-460, pny-miR-462, pny-miR-489, pny-miR-499, pny-miR-551, pny-miR-7, pny-miR-7132a-3p, pny-miR-7132a-5p, pny-miR-7132b, pny-miR-7133, pny-miR-7147, pny-miR-722, pny-miR-723a, pny-miR-723b, pny-miR-724, pny-miR-725, pny-miR-726, pny-miR-728, pny-miR-729, pny-miR-730, pny-miR-731, pny-miR-734, pny-miR-8159, pny-miR-8160b, pny-miR-92, pny-miR-93, pny-miR-96, pny-miR-99a, pny-miR-99b, pol-let-7a-3p, pol-let-7a-5p, pol-let-7b-3p, pol-let-7b-5p, pol-let-7d-3p, pol-let-7d-5p, pol-miR-1-3p, pol-miR-1-5p, pol-miR-10b-3p, pol-miR-10b-5p, pol-miR-122-3p, pol-miR-122-5p, pol-miR-124-3p, pol-miR-124-5p, pol-miR-133-3p, pol-miR-133-5p, pol-miR-140-3p, pol-miR-140-5p, pol-miR-144-3p, pol-miR-144-5p, pol-miR-182-3p, pol-miR-182-5p, pol-miR-199a-3p, pol-miR-199a-5p, pol-miR-203-3p, pol-miR-203-5p, pol-miR-206-3p, pol-miR-206-5p, pol-miR-21-3p, pol-miR-21-5p, pol-miR-219-3p, pol-miR-219-5p, pol-miR-22-3p, pol-miR-22-5p, pol-miR-221-3p, pol-miR-221-5p, pol-miR-9b-3p, pol-miR-9b-5p, ppa-let-7a, ppa-let-7b, ppa-let-7c, ppa-let-7e, ppa-let-7f, ppa-let-7g, ppa-let-7i, ppa-miR-1, ppa-miR-100, ppa-miR-101, ppa-miR-103, ppa-miR-105, ppa-miR-106a, ppa-miR-106b, ppa-miR-107, ppa-miR-10a, ppa-miR-10b, ppa-miR-124a, ppa-miR-125a, ppa-miR-125b, ppa-miR-127, ppa-miR-128, ppa-miR-1304, ppa-miR-1307, ppa-miR-130a, ppa-miR-133a, ppa-miR-134, ppa-miR-135, ppa-miR-136, ppa-miR-139, ppa-miR-140, ppa-miR-141, ppa-miR-143, ppa-miR-144, ppa-miR-145, ppa-miR-146b, ppa-miR-147, ppa-miR-148a, ppa-miR-148b, ppa-miR-151, ppa-miR-152, ppa-miR-154, ppa-miR-155, ppa-miR-15a, ppa-miR-15b, ppa-miR-16, ppa-miR-17-3p, ppa-miR-17-5p, ppa-miR-18, ppa-miR-181a-3p, ppa-miR-181a-5p, ppa-miR-181b, ppa-miR-181c, ppa-miR-181d, ppa-miR-183, ppa-miR-186, ppa-miR-187, ppa-miR-188, ppa-miR-190, ppa-miR-191, ppa-miR-192, ppa-miR-193a, ppa-miR-193b, ppa-miR-195, ppa-miR-196, ppa-miR-197, ppa-miR-198, ppa-miR-199a, ppa-miR-199b, ppa-miR-19a, ppa-miR-19b, ppa-miR-20, ppa-miR-204, ppa-miR-205, ppa-miR-21, ppa-miR-210, ppa-miR-214, ppa-miR-216, ppa-miR-217, ppa-miR-218, ppa-miR-22, ppa-

miR-221, ppa-miR-222, ppa-miR-223, ppa-miR-224, ppa-miR-2355, ppa-miR-23a, ppa-miR-23b, ppa-miR-24-3p, ppa-miR-24-5p, ppa-miR-25, ppa-miR-26a, ppa-miR-26b, ppa-miR-27a, ppa-miR-27b, ppa-miR-28, ppa-miR-299, ppa-miR-29a, ppa-miR-29b, ppa-miR-30a-3p, ppa-miR-30a-5p, ppa-miR-30b, ppa-miR-30d, ppa-miR-30e, ppa-miR-31, ppa-miR-32, ppa-miR-320a, ppa-miR-320b, ppa-miR-323, ppa-miR-328, ppa-miR-33, ppa-miR-340, ppa-miR-342, ppa-miR-34a, ppa-miR-34c, ppa-miR-369, ppa-miR-370, ppa-miR-376c, ppa-miR-378a, ppa-miR-379, ppa-miR-381, ppa-miR-382, ppa-miR-409, ppa-miR-410, ppa-miR-411a, ppa-miR-412, ppa-miR-421, ppa-miR-423, ppa-miR-424, ppa-miR-432, ppa-miR-450a, ppa-miR-484, ppa-miR-485, ppa-miR-486, ppa-miR-486-2, ppa-miR-493, ppa-miR-494, ppa-miR-532, ppa-miR-542, ppa-miR-549, ppa-miR-574, ppa-miR-615, ppa-miR-629, ppa-miR-654, ppa-miR-660, ppa-miR-665, ppa-miR-7, ppa-miR-769, ppa-miR-887, ppa-miR-889, ppa-miR-92a, ppa-miR-92b, ppa-miR-93, ppa-miR-95, ppa-miR-96, ppa-miR-98, ppa-miR-99a, ppc-let-7, ppc-lin-4, ppc-miR-1, ppc-miR-124, ppc-miR-133-3p, ppc-miR-133-5p, ppc-miR-2232, ppc-miR-2233, ppc-miR-2234a, ppc-miR-2234b, ppc-miR-2235a-10-3p, ppc-miR-2235a-11-3p, ppc-miR-2235a-3p, ppc-miR-2235a-5p, ppc-miR-2235a-9-3p, ppc-miR-2235b-3p, ppc-miR-2235b-5p, ppc-miR-2235c-3p, ppc-miR-2235c-5p, ppc-miR-2235d-3p, ppc-miR-2235d-5p, ppc-miR-2236a, ppc-miR-2236b, ppc-miR-2237a, ppc-miR-2237b, ppc-miR-2237c, ppc-miR-2237d-3p, ppc-miR-2237d-5p, ppc-miR-2238a, ppc-miR-2238b, ppc-miR-2238c, ppc-miR-2238d, ppc-miR-2238e, ppc-miR-2238f-3p, ppc-miR-2238f-5p, ppc-miR-2238g-3p, ppc-miR-2238g-5p, ppc-miR-2238h-3p, ppc-miR-2238h-5p, ppc-miR-2238i-3p, ppc-miR-2238i-5p, ppc-miR-2238j-3p, ppc-miR-2238j-5p, ppc-miR-2238k-3p, ppc-miR-2238k-5p, ppc-miR-2238l-3p, ppc-miR-2238l-5p, ppc-miR-2239, ppc-miR-2240a, ppc-miR-2240b, ppc-miR-2240c, ppc-miR-2241a, ppc-miR-2241b, ppc-miR-2241c, ppc-miR-2242, ppc-miR-2243, ppc-miR-2244, ppc-miR-2245, ppc-miR-2246, ppc-miR-2247, ppc-miR-2248, ppc-miR-2249, ppc-miR-2250, ppc-miR-2251a, ppc-miR-2251b-3p, ppc-miR-2251b-5p, ppc-miR-2252, ppc-miR-2253a, ppc-miR-2253b, ppc-miR-2253c-3p, ppc-miR-2253c-5p, ppc-miR-2253d-3p, ppc-miR-2253d-5p, ppc-miR-2254, ppc-miR-2255, ppc-miR-2256, ppc-miR-2258, ppc-miR-2259, ppc-miR-2260, ppc-miR-2261, ppc-miR-2262, ppc-miR-2263, ppc-miR-2264, ppc-miR-2265, ppc-miR-2266, ppc-miR-2267, ppc-miR-2268, ppc-miR-2269, ppc-miR-2270, ppc-miR-2271, ppc-miR-2272, ppc-miR-2273, ppc-miR-2274, ppc-miR-228-3p, ppc-miR-228-5p, ppc-miR-232, ppc-miR-234, ppc-miR-235-3p, ppc-miR-235-5p, ppc-miR-236, ppc-miR-239, ppc-miR-240, ppc-miR-242, ppc-miR-252, ppc-miR-279, ppc-miR-2a-3p, ppc-miR-2a-5p, ppc-miR-2b, ppc-miR-312a, ppc-miR-312b-3p, ppc-miR-312b-5p, ppc-miR-36-3p, ppc-miR-36-5p, ppc-miR-360-3p, ppc-miR-360-5p, ppc-miR-37, ppc-miR-

38, ppc-miR-42a, ppc-miR-42b, ppc-miR-42c-3p, ppc-miR-42c-5p, ppc-miR-45, ppc-miR-46, ppc-miR-54, ppc-miR-55a, ppc-miR-55b, ppc-miR-56, ppc-miR-57-3p, ppc-miR-57-5p, ppc-miR-59-3p, ppc-miR-59-5p, ppc-miR-63a, ppc-miR-63b, ppc-miR-63c, ppc-miR-63d, ppc-miR-63e, ppc-miR-63f, ppc-miR-63g, ppc-miR-63h, ppc-miR-63i-3p, ppc-miR-63i-5p, ppc-miR-63j-3p, ppc-miR-63j-5p, ppc-miR-63k-3p, ppc-miR-63k-5p, ppc-miR-65, ppc-miR-67, ppc-miR-71a, ppc-miR-71b-3p, ppc-miR-71b-5p, ppc-miR-72, ppc-miR-76-3p, ppc-miR-76-5p, ppc-miR-79, ppc-miR-81, ppc-miR-8213-3p, ppc-miR-8213-5p, ppc-miR-8214-3p, ppc-miR-8214-5p, ppc-miR-8215a-3p, ppc-miR-8215a-5p, ppc-miR-8215b-3p, ppc-miR-8215b-5p, ppc-miR-8216-3p, ppc-miR-8216-5p, ppc-miR-8217-3p, ppc-miR-8217-5p, ppc-miR-8218a-3p, ppc-miR-8218a-5p, ppc-miR-8218b-3p, ppc-miR-8218b-5p, ppc-miR-8219-3p, ppc-miR-8219-5p, ppc-miR-8220-3p, ppc-miR-8220-5p, ppc-miR-8221-3p, ppc-miR-8221-5p, ppc-miR-8222-3p, ppc-miR-8222-5p, ppc-miR-8223-3p, ppc-miR-8223-5p, ppc-miR-8224-3p, ppc-miR-8224-5p, ppc-miR-8225-3p, ppc-miR-8225-5p, ppc-miR-8226-3p, ppc-miR-8226-5p, ppc-miR-8227-3p, ppc-miR-8227-5p, ppc-miR-8228-3p, ppc-miR-8228-5p, ppc-miR-8229a-3p, ppc-miR-8229a-5p, ppc-miR-8229b-3p, ppc-miR-8229b-5p, ppc-miR-8230-3p, ppc-miR-8230-5p, ppc-miR-8231-3p, ppc-miR-8231-5p, ppc-miR-8232-3p, ppc-miR-8232-5p, ppc-miR-8233-3p, ppc-miR-8233-5p, ppc-miR-8234-3p, ppc-miR-8234-5p, ppc-miR-8235-3p, ppc-miR-8235-5p, ppc-miR-8236-3p, ppc-miR-8236-5p, ppc-miR-8237-3p, ppc-miR-8237-5p, ppc-miR-8238-3p, ppc-miR-8238-5p, ppc-miR-8239-3p, ppc-miR-8239-5p, ppc-miR-8240-3p, ppc-miR-8240-5p, ppc-miR-8241-3p, ppc-miR-8241-5p, ppc-miR-8242-3p, ppc-miR-8242-5p, ppc-miR-8243-3p, ppc-miR-8243-5p, ppc-miR-8244-3p, ppc-miR-8244-5p, ppc-miR-8245a-3p, ppc-miR-8245a-5p, ppc-miR-8245b-3p, ppc-miR-8245b-5p, ppc-miR-8246-3p, ppc-miR-8246-5p, ppc-miR-8247-3p, ppc-miR-8247-5p, ppc-miR-8248-3p, ppc-miR-8248-5p, ppc-miR-8249-3p, ppc-miR-8249-5p, ppc-miR-8250a-2-3p, ppc-miR-8250a-3p, ppc-miR-8250a-5p, ppc-miR-8250c-3p, ppc-miR-8250c-5p, ppc-miR-8250d-3p, ppc-miR-8250d-5p, ppc-miR-8251-3p, ppc-miR-8251-5p, ppc-miR-8252a-3p, ppc-miR-8252a-5p, ppc-miR-8252b-3p, ppc-miR-8252b-5p, ppc-miR-8253-3p, ppc-miR-8253-5p, ppc-miR-8254-3p, ppc-miR-8254-5p, ppc-miR-8255-3p, ppc-miR-8255-5p, ppc-miR-8256-3p, ppc-miR-8256-5p, ppc-miR-8257-3p, ppc-miR-8257-5p, ppc-miR-8258-3p, ppc-miR-8258-5p, ppc-miR-8259-3p, ppc-miR-8259-5p, ppc-miR-8260-3p, ppc-miR-8260-5p, ppc-miR-8261-3p, ppc-miR-8261-5p, ppc-miR-8262-3p, ppc-miR-8262-5p, ppc-miR-8263-3p, ppc-miR-8263-5p, ppc-miR-8264-3p, ppc-miR-8264-5p, ppc-miR-8265-3p, ppc-miR-8265-5p, ppc-miR-8266-3p, ppc-miR-8266-5p, ppc-miR-8267-3p, ppc-miR-8267-5p, ppc-miR-8268-3p, ppc-miR-8268-5p, ppc-miR-8269-3p, ppc-miR-8269-5p, ppc-miR-8270-

3p, ppc-miR-8270-5p, ppc-miR-8271-3p, ppc-miR-8271-5p, ppc-miR-8272-3p, ppc-miR-8272-5p, ppc-miR-8273-3p, ppc-miR-8273-5p, ppc-miR-8274-3p, ppc-miR-8274-5p, ppc-miR-8275-3p, ppc-miR-8275-5p, ppc-miR-8276-3p, ppc-miR-8276-5p, ppc-miR-8277-3p, ppc-miR-8277-5p, ppc-miR-8278-3p, ppc-miR-8278-5p, ppc-miR-8279-3p, ppc-miR-8279-5p, ppc-miR-8280-3p, ppc-miR-8280-5p, ppc-miR-8281-3p, ppc-miR-8281-5p, ppc-miR-8282a-3p, ppc-miR-8282a-5p, ppc-miR-8282b-3p, ppc-miR-8282b-5p, ppc-miR-8282c-3p, ppc-miR-8282c-5p, ppc-miR-8283-3p, ppc-miR-8283-5p, ppc-miR-8284-3p, ppc-miR-8284-5p, ppc-miR-8285-3p, ppc-miR-8285-5p, ppc-miR-8286a-3p, ppc-miR-8286a-5p, ppc-miR-8286b-3p, ppc-miR-8286b-5p, ppc-miR-8287-3p, ppc-miR-8287-5p, ppc-miR-8288-3p, ppc-miR-8288-5p, ppc-miR-8289-3p, ppc-miR-8289-5p, ppc-miR-8290-3p, ppc-miR-8290-5p, ppc-miR-8291-3p, ppc-miR-8291-5p, ppc-miR-8292-3p, ppc-miR-8292-5p, ppc-miR-8293-3p, ppc-miR-8293-5p, ppc-miR-8294-3p, ppc-miR-8294-5p, ppc-miR-8295-3p, ppc-miR-8295-5p, ppc-miR-8296-3p, ppc-miR-8296-5p, ppc-miR-8297-3p, ppc-miR-8297-5p, ppc-miR-8298-3p, ppc-miR-8298-5p, ppc-miR-8299-3p, ppc-miR-8299-5p, ppc-miR-83-3p, ppc-miR-83-5p, ppc-miR-8300-3p, ppc-miR-8300-5p, ppc-miR-8301-3p, ppc-miR-8301-5p, ppc-miR-8302-3p, ppc-miR-8302-5p, ppc-miR-8303-2-3p, ppc-miR-8303-3p, ppc-miR-8303-5p, ppc-miR-8304a-3p, ppc-miR-8304a-5p, ppc-miR-8304b-3p, ppc-miR-8304b-5p, ppc-miR-8305-3p, ppc-miR-8305-5p, ppc-miR-8306-3p, ppc-miR-8306-5p, ppc-miR-8307-3p, ppc-miR-8307-5p, ppc-miR-8308-3p, ppc-miR-8308-5p, ppc-miR-8309-3p, ppc-miR-8309-5p, ppc-miR-8310-3p, ppc-miR-8310-5p, ppc-miR-8311-3p, ppc-miR-8311-5p, ppc-miR-8312-3p, ppc-miR-8312-5p, ppc-miR-8313-3p, ppc-miR-8313-5p, ppc-miR-8314-3p, ppc-miR-8314-5p, ppc-miR-8315-2-5p, ppc-miR-8315-3p, ppc-miR-8315-5p, ppc-miR-8316-3p, ppc-miR-8316-5p, ppc-miR-8317a-3p, ppc-miR-8317a-5p, ppc-miR-8317b-3p, ppc-miR-8317b-5p, ppc-miR-8318-3p, ppc-miR-8318-5p, ppc-miR-8319-3p, ppc-miR-8319-5p, ppc-miR-8320-3p, ppc-miR-8320-5p, ppc-miR-8321-3p, ppc-miR-8321-5p, ppc-miR-8322-3p, ppc-miR-8322-5p, ppc-miR-8323-3p, ppc-miR-8323-5p, ppc-miR-8324-3p, ppc-miR-8324-5p, ppc-miR-8325-3p, ppc-miR-8325-5p, ppc-miR-8326-3p, ppc-miR-8326-5p, ppc-miR-8327-3p, ppc-miR-8327-5p, ppc-miR-8328-3p, ppc-miR-8328-5p, ppc-miR-8329-3p, ppc-miR-8329-5p, ppc-miR-8330-3p, ppc-miR-8330-5p, ppc-miR-8331-3p, ppc-miR-8331-5p, ppc-miR-8332-3p, ppc-miR-8332-5p, ppc-miR-8333-3p, ppc-miR-8333-5p, ppc-miR-8334-3p, ppc-miR-8334-5p, ppc-miR-8335-3p, ppc-miR-8335-5p, ppc-miR-8336-3p, ppc-miR-8336-5p, ppc-miR-8337-3p, ppc-miR-8337-5p, ppc-miR-8338-2-3p, ppc-miR-8338-3p, ppc-miR-8338-5p, ppc-miR-8339-3p, ppc-miR-8339-5p, ppc-miR-8340-3p, ppc-miR-8340-5p, ppc-miR-8341-3p, ppc-miR-8341-5p, ppc-miR-8342-3p, ppc-miR-8342-5p, ppc-miR-8343-3p,

ppc-miR-8343-5p, ppc-miR-8344-3p, ppc-miR-8344-5p, ppc-miR-8345-3p, ppc-miR-8345-5p, ppc-miR-8346-3p, ppc-miR-8346-5p, ppc-miR-8347-3p, ppc-miR-8347-5p, ppc-miR-8348-3p, ppc-miR-8348-5p, ppc-miR-8349-3p, ppc-miR-8349-5p, ppc-miR-8350-3p, ppc-miR-8350-5p, ppc-miR-8351-3p, ppc-miR-8351-5p, ppc-miR-8352-3p, ppc-miR-8352-5p, ppc-miR-8353-3p, ppc-miR-8353-5p, ppc-miR-8354-3p, ppc-miR-8354-5p, ppc-miR-8355-3p, ppc-miR-8355-5p, ppc-miR-8356a-3p, ppc-miR-8356a-5p, ppc-miR-8356b-3p, ppc-miR-8356b-5p, ppc-miR-8357-3p, ppc-miR-8357-5p, ppc-miR-8358-3p, ppc-miR-8358-5p, ppc-miR-8359-3p, ppc-miR-8359-5p, ppc-miR-8360-3p, ppc-miR-8360-5p, ppc-miR-8361-3p, ppc-miR-8361-5p, ppc-miR-8362-3p, ppc-miR-8362-5p, ppc-miR-8363-3p, ppc-miR-8363-5p, ppc-miR-8364a-3p, ppc-miR-8364a-5p, ppc-miR-8364b-3p, ppc-miR-8364b-5p, ppc-miR-8364c-2-3p, ppc-miR-8364c-3p, ppc-miR-8364c-5p, ppc-miR-8364d-3p, ppc-miR-8364d-5p, ppc-miR-8364e-3p, ppc-miR-8364e-5p, ppc-miR-8364f-3p, ppc-miR-8364f-5p, ppc-miR-8364g-3p, ppc-miR-8364g-5p, ppc-miR-8364h-3p, ppc-miR-8364h-5p, ppc-miR-8364i-3p, ppc-miR-8364i-5p, ppc-miR-8364j-3p, ppc-miR-8364j-5p, ppc-miR-8364k-3p, ppc-miR-8364k-5p, ppc-miR-8364l-3p, ppc-miR-8364l-5p, ppc-miR-8364m-3p, ppc-miR-8364m-5p, ppc-miR-8364n-3p, ppc-miR-8364n-5p, ppc-miR-8364o-3p, ppc-miR-8364o-5p, ppc-miR-8364p-3p, ppc-miR-8364p-5p, ppc-miR-8364q-3p, ppc-miR-8364q-5p, ppc-miR-8364r-3p, ppc-miR-8364r-5p, ppc-miR-8364s-3p, ppc-miR-8364s-5p, ppc-miR-8364t-3p, ppc-miR-8364t-5p, ppc-miR-8364u-3p, ppc-miR-8364u-5p, ppc-miR-8364v-3p, ppc-miR-8364v-5p, ppc-miR-8364w-3p, ppc-miR-8364w-5p, ppc-miR-84a, ppc-miR-84b, ppc-miR-84c-3p, ppc-miR-84c-5p, ppc-miR-84d-3p, ppc-miR-84d-5p, ppc-miR-84e-3p, ppc-miR-84e-5p, ppc-miR-84f-3p, ppc-miR-84f-5p, ppc-miR-86, ppc-miR-87, ppc-miR-9, ppc-miR-993, ppe-miR1511-3p, ppe-miR1511-5p, ppe-miR156a, ppe-miR156b, ppe-miR156c, ppe-miR156d, ppe-miR156e, ppe-miR156f, ppe-miR156g, ppe-miR156h, ppe-miR156i, ppe-miR159, ppe-miR160a, ppe-miR160b, ppe-miR162, ppe-miR164a, ppe-miR164b, ppe-miR164c, ppe-miR164d, ppe-miR166a, ppe-miR166b, ppe-miR166c, ppe-miR166d, ppe-miR166e, ppe-miR167a, ppe-miR167b, ppe-miR167c, ppe-miR167d, ppe-miR168, ppe-miR169a, ppe-miR169b, ppe-miR169c, ppe-miR169d, ppe-miR169e-5p, ppe-miR169f, ppe-miR169g, ppe-miR169h, ppe-miR169i, ppe-miR169j, ppe-miR169k, ppe-miR169l, ppe-miR171a, ppe-miR171b, ppe-miR171c, ppe-miR171d-3p, ppe-miR171d-5p, ppe-miR171e, ppe-miR171f, ppe-miR171g, ppe-miR171h, ppe-miR172a-3p, ppe-miR172a-5p, ppe-miR172b, ppe-miR172c, ppe-miR172d, ppe-miR2111a, ppe-miR2111b, ppe-miR2111c, ppe-miR2111d, ppe-miR319a, ppe-miR319b, ppe-miR3627-3p, ppe-miR3627-5p, ppe-miR390, ppe-miR393a, ppe-miR393b, ppe-miR394a, ppe-miR394b, ppe-miR395a-3p, ppe-miR395a-

5p, ppe-miR395b-3p, ppe-miR395b-5p, ppe-miR395c, ppe-miR395d, ppe-miR395e, ppe-miR395f, ppe-miR395g, ppe-miR395h, ppe-miR395i, ppe-miR395j, ppe-miR395k, ppe-miR395l, ppe-miR395m, ppe-miR395n, ppe-miR395o, ppe-miR396a, ppe-miR396b, ppe-miR397, ppe-miR398a-3p, ppe-miR398a-5p, ppe-miR398b, ppe-miR399a, ppe-miR399b, ppe-miR399c, ppe-miR399d, ppe-miR399e, ppe-miR399f, ppe-miR399g, ppe-miR399h, ppe-miR399i, ppe-miR399j, ppe-miR399k, ppe-miR399l, ppe-miR399m, ppe-miR399n, ppe-miR403, ppe-miR477-3p, ppe-miR477-5p, ppe-miR477a-3p, ppe-miR477a-5p, ppe-miR477b-3p, ppe-miR477b-5p, ppe-miR482a-3p, ppe-miR482a-5p, ppe-miR482b-3p, ppe-miR482b-5p, ppe-miR482c-3p, ppe-miR482c-5p, ppe-miR482d-3p, ppe-miR482d-5p, ppe-miR482e, ppe-miR482f, ppe-miR5225-3p, ppe-miR5225-5p, ppe-miR530, ppe-miR535a, ppe-miR535b, ppe-miR6257, ppe-miR6258, ppe-miR6259, ppe-miR6260, ppe-miR6261, ppe-miR6262, ppe-miR6263, ppe-miR6264, ppe-miR6265, ppe-miR6266a, ppe-miR6266b, ppe-miR6266c, ppe-miR6267a, ppe-miR6267b, ppe-miR6267c-3p, ppe-miR6267c-5p, ppe-miR6269, ppe-miR6270, ppe-miR6271, ppe-miR6272, ppe-miR6273, ppe-miR6274a, ppe-miR6274b-3p, ppe-miR6274b-5p, ppe-miR6275, ppe-miR6276, ppe-miR6277, ppe-miR6278, ppe-miR6279, ppe-miR6280, ppe-miR6281, ppe-miR6282, ppe-miR6283, ppe-miR6284, ppe-miR6285, ppe-miR6286, ppe-miR6287, ppe-miR6288a, ppe-miR6288b-3p, ppe-miR6288b-5p, ppe-miR6288c-3p, ppe-miR6288c-5p, ppe-miR6289, ppe-miR6290, ppe-miR6291a, ppe-miR6291b, ppe-miR6291c-3p, ppe-miR6291c-5p, ppe-miR6292, ppe-miR6293, ppe-miR6294, ppe-miR6295, ppe-miR6296, ppe-miR6297a, ppe-miR6297b, ppe-miR7122a-3p, ppe-miR7122a-5p, ppe-miR7122b-3p, ppe-miR7122b-5p, ppe-miR7125-3p, ppe-miR7125-5p, ppe-miR8122-3p, ppe-miR8122-5p, ppe-miR8123-3p, ppe-miR8123-5p, ppe-miR8124-3p, ppe-miR8124-5p, ppe-miR8125, ppe-miR8126-3p, ppe-miR8126-5p, ppe-miR8127-3p, ppe-miR8127-5p, ppe-miR8128-3p, ppe-miR8128-5p, ppe-miR8129-3p, ppe-miR8129-5p, ppe-miR8130-3p, ppe-miR8130-5p, ppe-miR8131-3p, ppe-miR8131-5p, ppe-miR8132, ppe-miR8133-3p, ppe-miR8133-5p, ppe-miR827, ppe-miR828-3p, ppe-miR828-5p, ppe-miR858, ppt-miR1023a-3p, ppt-miR1023a-5p, ppt-miR1023b-3p, ppt-miR1023b-5p, ppt-miR1023c-3p, ppt-miR1023c-5p, ppt-miR1023d-5p, ppt-miR1023e-3p, ppt-miR1023e-5p, ppt-miR1024a, ppt-miR1024b, ppt-miR1025, ppt-miR1026a, ppt-miR1026b, ppt-miR1027a, ppt-miR1027b, ppt-miR1027c, ppt-miR1028a-3p, ppt-miR1028a-5p, ppt-miR1028b-3p, ppt-miR1028b-5p, ppt-miR1028c-3p, ppt-miR1028c-5p, ppt-miR1029, ppt-miR1030a, ppt-miR1030b, ppt-miR1030c, ppt-miR1030d, ppt-miR1030e, ppt-miR1030f, ppt-miR1030g, ppt-miR1030h, ppt-miR1030i, ppt-miR1030j, ppt-miR1031a, ppt-miR1031b, ppt-miR1032, ppt-miR1033a, ppt-miR1033b, ppt-miR1033c, ppt-miR1033d, ppt-miR1033e,

ppt-miR1034, ppt-miR1034b, ppt-miR1035, ppt-miR1036-3p, ppt-miR1036-5p, ppt-miR1037, ppt-miR1038-3p, ppt-miR1038-5p, ppt-miR1039-3p, ppt-miR1039-5p, ppt-miR1040, ppt-miR1041, ppt-miR1042-3p, ppt-miR1042-5p, ppt-miR1043-3p, ppt-miR1043-5p, ppt-miR1044-3p, ppt-miR1044-5p, ppt-miR1045, ppt-miR1046-3p, ppt-miR1046-5p, ppt-miR1047-3p, ppt-miR1047-5p, ppt-miR1048-3p, ppt-miR1048-5p, ppt-miR1049, ppt-miR1049b, ppt-miR1050, ppt-miR1051-3p, ppt-miR1051-5p, ppt-miR1052, ppt-miR1053-3p, ppt-miR1053-5p, ppt-miR1054, ppt-miR1055, ppt-miR1056, ppt-miR1057, ppt-miR1058, ppt-miR1059, ppt-miR1060, ppt-miR1061-3p, ppt-miR1061-5p, ppt-miR1062, ppt-miR1063a, ppt-miR1063b, ppt-miR1063c, ppt-miR1063d, ppt-miR1063e, ppt-miR1063f, ppt-miR1063g, ppt-miR1063h, ppt-miR1064-3p, ppt-miR1064-5p, ppt-miR1065, ppt-miR1066, ppt-miR1067, ppt-miR1068, ppt-miR1069-3p, ppt-miR1069-5p, ppt-miR1070, ppt-miR1071-3p, ppt-miR1071-5p, ppt-miR1072, ppt-miR1073-3p, ppt-miR1073-5p, ppt-miR1074, ppt-miR1075, ppt-miR1076-3p, ppt-miR1076-5p, ppt-miR1077-3p, ppt-miR1077-5p, ppt-miR1078, ppt-miR1079-3p, ppt-miR1079-5p, ppt-miR11316, ppt-miR11317, ppt-miR11318, ppt-miR11319, ppt-miR11320, ppt-miR11321, ppt-miR11322, ppt-miR11323, ppt-miR11324, ppt-miR11325, ppt-miR11326, ppt-miR11327, ppt-miR11328, ppt-miR11329, ppt-miR11330, ppt-miR1211-3p, ppt-miR1211-5p, ppt-miR1212, ppt-miR1214, ppt-miR1215, ppt-miR1216, ppt-miR1217-3p, ppt-miR1217-5p, ppt-miR1218, ppt-miR1219a, ppt-miR1219b, ppt-miR1219c, ppt-miR1219d, ppt-miR1220a, ppt-miR1220b, ppt-miR1221-3p, ppt-miR1221-5p, ppt-miR1222a, ppt-miR1222b, ppt-miR1222c, ppt-miR1222d, ppt-miR1222e, ppt-miR1223a, ppt-miR1223b, ppt-miR1223c, ppt-miR1223d, ppt-miR1223e, ppt-miR1223f, ppt-miR1223g, ppt-miR1223h, ppt-miR1223i, ppt-miR1223j, ppt-miR156a, ppt-miR156b, ppt-miR156c, ppt-miR160a, ppt-miR160b, ppt-miR160c, ppt-miR160d, ppt-miR160e, ppt-miR160f, ppt-miR160g, ppt-miR160h, ppt-miR160i, ppt-miR166a, ppt-miR166b, ppt-miR166c, ppt-miR166d, ppt-miR166e, ppt-miR166f, ppt-miR166g, ppt-miR166h, ppt-miR166i, ppt-miR166j, ppt-miR166k, ppt-miR166l, ppt-miR166m, ppt-miR167, ppt-miR171a, ppt-miR171b, ppt-miR2077, ppt-miR2078, ppt-miR2079, ppt-miR2080, ppt-miR2081, ppt-miR2082, ppt-miR2083-3p, ppt-miR2083-5p, ppt-miR2084, ppt-miR2085, ppt-miR319a, ppt-miR319b, ppt-miR319c, ppt-miR319d-3p, ppt-miR319d-5p.1, ppt-miR319d-5p.2, ppt-miR319e, ppt-miR390a, ppt-miR390b, ppt-miR390c-3p, ppt-miR390c-5p, ppt-miR395, ppt-miR408a, ppt-miR408b, ppt-miR414, ppt-miR419, ppt-miR477a-3p, ppt-miR477a-5p, ppt-miR477b, ppt-miR477c, ppt-miR477d, ppt-miR477e, ppt-miR477f, ppt-miR477g-3p, ppt-miR477g-5p, ppt-miR477h, ppt-miR529a, ppt-miR529b, ppt-miR529c, ppt-miR529d, ppt-miR529e, ppt-miR529f, ppt-miR529g, ppt-

miR533a-3p, ppt-miR533a-5p, ppt-miR533b-3p, ppt-miR533b-5p, ppt-miR533c, ppt-miR533d, ppt-miR533e, ppt-miR534a, ppt-miR534b, ppt-miR535a, ppt-miR535b, ppt-miR535c, ppt-miR535d, ppt-miR536a, ppt-miR536b, ppt-miR536c, ppt-miR536d, ppt-miR536e, ppt-miR536f, ppt-miR537a, ppt-miR537b, ppt-miR537c, ppt-miR537d, ppt-miR538a, ppt-miR538b, ppt-miR538c, ppt-miR893, ppt-miR894, ppt-miR895, ppt-miR897, ppt-miR898a-3p, ppt-miR898a-5p, ppt-miR898b, ppt-miR899, ppt-miR900-3p, ppt-miR900-5p, ppt-miR901, ppt-miR902a-3p, ppt-miR902a-5p, ppt-miR902b-3p, ppt-miR902b-5p, ppt-miR902c-3p, ppt-miR902c-5p, ppt-miR902d-3p, ppt-miR902d-5p, ppt-miR902e-3p, ppt-miR902e-5p, ppt-miR902f-3p, ppt-miR902f-5p, ppt-miR902g-3p, ppt-miR902g-5p, ppt-miR902h-3p, ppt-miR902h-5p, ppt-miR902i-3p, ppt-miR902i-5p, ppt-miR902j-3p, ppt-miR902j-5p, ppt-miR902k-3p, ppt-miR902k-5p, ppt-miR902l-3p, ppt-miR902l-5p, ppt-miR903, ppt-miR904a, ppt-miR904b, ppy-let-7a, ppy-let-7b, ppy-let-7c, ppy-let-7d, ppy-let-7e, ppy-let-7f, ppy-let-7g, ppy-let-7i, ppy-miR-1, ppy-miR-100, ppy-miR-101, ppy-miR-103, ppy-miR-105, ppy-miR-106a, ppy-miR-106b, ppy-miR-107, ppy-miR-10a, ppy-miR-10b, ppy-miR-1178, ppy-miR-1179, ppy-miR-1180, ppy-miR-1181, ppy-miR-1183, ppy-miR-1185, ppy-miR-1193, ppy-miR-1197, ppy-miR-1199-3p, ppy-miR-1199-5p, ppy-miR-1200, ppy-miR-1202, ppy-miR-1204, ppy-miR-1205, ppy-miR-1207-3p, ppy-miR-1207-5p, ppy-miR-1208, ppy-miR-122, ppy-miR-1224-3p, ppy-miR-1224-5p, ppy-miR-1225-3p, ppy-miR-1225-5p, ppy-miR-1226, ppy-miR-1227, ppy-miR-1228, ppy-miR-1233, ppy-miR-1236, ppy-miR-1237, ppy-miR-1238, ppy-miR-124, ppy-miR-1244, ppy-miR-1245, ppy-miR-1246, ppy-miR-1247, ppy-miR-1248, ppy-miR-1249, ppy-miR-124a, ppy-miR-1250, ppy-miR-1251, ppy-miR-1252, ppy-miR-1253, ppy-miR-1255a, ppy-miR-1255b, ppy-miR-1256, ppy-miR-1257, ppy-miR-125a-3p, ppy-miR-125a-5p, ppy-miR-125b, ppy-miR-126, ppy-miR-1260a, ppy-miR-1260b, ppy-miR-1261, ppy-miR-1262, ppy-miR-1263, ppy-miR-1264, ppy-miR-1265, ppy-miR-1266, ppy-miR-1267, ppy-miR-1268, ppy-miR-1269, ppy-miR-127, ppy-miR-1270, ppy-miR-1271, ppy-miR-1275, ppy-miR-1277, ppy-miR-128, ppy-miR-1281, ppy-miR-1282, ppy-miR-1283a, ppy-miR-1284, ppy-miR-1285a, ppy-miR-1285b, ppy-miR-1286, ppy-miR-1287, ppy-miR-1289, ppy-miR-129-1-3p, ppy-miR-129-2-3p, ppy-miR-129-5p, ppy-miR-1290, ppy-miR-1291, ppy-miR-1292, ppy-miR-1293, ppy-miR-1295, ppy-miR-1296, ppy-miR-1297, ppy-miR-1298, ppy-miR-1299, ppy-miR-1301, ppy-miR-1302, ppy-miR-1303, ppy-miR-1304, ppy-miR-1305, ppy-miR-1306, ppy-miR-1307, ppy-miR-130a, ppy-miR-130b, ppy-miR-132, ppy-miR-1322, ppy-miR-1323, ppy-miR-1324, ppy-miR-133a, ppy-miR-133b, ppy-miR-133c, ppy-miR-134, ppy-miR-135a, ppy-miR-135b, ppy-miR-136, ppy-miR-137, ppy-miR-138, ppy-miR-139-3p, ppy-miR-139-5p, ppy-miR-140-3p, ppy-miR-

140-5p, ppy-miR-141, ppy-miR-142-3p, ppy-miR-142-5p, ppy-miR-143, ppy-miR-144, ppy-miR-145, ppy-miR-1468, ppy-miR-1469, ppy-miR-146a, ppy-miR-146b-3p, ppy-miR-146b-5p, ppy-miR-1471, ppy-miR-147a, ppy-miR-147b, ppy-miR-148a, ppy-miR-148b, ppy-miR-149, ppy-miR-150, ppy-miR-151a-3p, ppy-miR-151a-5p, ppy-miR-151b, ppy-miR-152, ppy-miR-153, ppy-miR-1537, ppy-miR-1538, ppy-miR-154, ppy-miR-155, ppy-miR-15a, ppy-miR-15b, ppy-miR-16, ppy-miR-17-3p, ppy-miR-17-5p, ppy-miR-181a-3p, ppy-miR-181a-5p, ppy-miR-181b, ppy-miR-181c, ppy-miR-181d, ppy-miR-182, ppy-miR-1827, ppy-miR-183, ppy-miR-184, ppy-miR-185, ppy-miR-186, ppy-miR-187, ppy-miR-188, ppy-miR-18a, ppy-miR-18b, ppy-miR-1908, ppy-miR-1909, ppy-miR-190a, ppy-miR-190b, ppy-miR-191, ppy-miR-1910, ppy-miR-1912, ppy-miR-1913, ppy-miR-1914, ppy-miR-1915, ppy-miR-192, ppy-miR-193a-3p, ppy-miR-193a-5p, ppy-miR-193b, ppy-miR-194, ppy-miR-195, ppy-miR-196, ppy-miR-196-2, ppy-miR-196b, ppy-miR-197, ppy-miR-1976, ppy-miR-198, ppy-miR-199a, ppy-miR-199b-3p, ppy-miR-199b-5p, ppy-miR-19a, ppy-miR-19b, ppy-miR-200a, ppy-miR-200c, ppy-miR-202, ppy-miR-203, ppy-miR-204, ppy-miR-205, ppy-miR-206, ppy-miR-208a, ppy-miR-208b, ppy-miR-20a, ppy-miR-20b, ppy-miR-21, ppy-miR-210, ppy-miR-211, ppy-miR-214, ppy-miR-215, ppy-miR-216a, ppy-miR-216b, ppy-miR-217, ppy-miR-218, ppy-miR-219, ppy-miR-219-5p, ppy-miR-22, ppy-miR-221, ppy-miR-222, ppy-miR-223, ppy-miR-224, ppy-miR-2278, ppy-miR-2355, ppy-miR-23a, ppy-miR-23b, ppy-miR-24-3p, ppy-miR-24-5p, ppy-miR-25, ppy-miR-26a, ppy-miR-26b, ppy-miR-27a, ppy-miR-27b, ppy-miR-28, ppy-miR-2861, ppy-miR-296-3p, ppy-miR-296-5p, ppy-miR-297, ppy-miR-298, ppy-miR-299-3p, ppy-miR-299-5p, ppy-miR-29a, ppy-miR-29b, ppy-miR-29c, ppy-miR-300, ppy-miR-301a, ppy-miR-301b, ppy-miR-302b, ppy-miR-302c, ppy-miR-302d, ppy-miR-302e, ppy-miR-30a-3p, ppy-miR-30a-5p, ppy-miR-30b, ppy-miR-30c, ppy-miR-30d, ppy-miR-30e, ppy-miR-31, ppy-miR-3121, ppy-miR-3136, ppy-miR-3145, ppy-miR-3154, ppy-miR-3155a, ppy-miR-3170, ppy-miR-3173, ppy-miR-3174, ppy-miR-3188, ppy-miR-32, ppy-miR-320a, ppy-miR-320b, ppy-miR-320c, ppy-miR-320d, ppy-miR-320e, ppy-miR-323-3p, ppy-miR-323-5p, ppy-miR-324-3p, ppy-miR-324-5p, ppy-miR-325, ppy-miR-326, ppy-miR-328, ppy-miR-329, ppy-miR-330-3p, ppy-miR-330-5p, ppy-miR-331-3p, ppy-miR-331-5p, ppy-miR-335, ppy-miR-337-3p, ppy-miR-337-5p, ppy-miR-338-3p, ppy-miR-338-5p, ppy-miR-339-5p, ppy-miR-33a, ppy-miR-33b, ppy-miR-340, ppy-miR-342-3p, ppy-miR-342-5p, ppy-miR-345, ppy-miR-346, ppy-miR-34a, ppy-miR-34b, ppy-miR-34c-3p, ppy-miR-34c-5p, ppy-miR-361-3p, ppy-miR-361-5p, ppy-miR-3617, ppy-miR-362-3p, ppy-miR-362-5p, ppy-miR-363, ppy-miR-365, ppy-miR-3660, ppy-miR-3661, ppy-miR-367, ppy-miR-369-3p, ppy-miR-369-5p, ppy-miR-370, ppy-miR-371-3p, ppy-miR-371-5p, ppy-

miR-372, ppy-miR-373, ppy-miR-374a, ppy-miR-375, ppy-miR-376a, ppy-miR-376b, ppy-miR-376c, ppy-miR-377, ppy-miR-378a, ppy-miR-378b, ppy-miR-378d, ppy-miR-378e, ppy-miR-379, ppy-miR-380, ppy-miR-381, ppy-miR-382, ppy-miR-383, ppy-miR-384, ppy-miR-3912, ppy-miR-3934, ppy-miR-3938, ppy-miR-3940, ppy-miR-3943, ppy-miR-409-3p, ppy-miR-409-5p, ppy-miR-410, ppy-miR-411, ppy-miR-412, ppy-miR-421, ppy-miR-422a, ppy-miR-423-3p, ppy-miR-423-5p, ppy-miR-424, ppy-miR-425, ppy-miR-429, ppy-miR-431, ppy-miR-432, ppy-miR-433, ppy-miR-4427, ppy-miR-4446, ppy-miR-4451, ppy-miR-448, ppy-miR-4484, ppy-miR-449a, ppy-miR-449b, ppy-miR-450a, ppy-miR-450b-3p, ppy-miR-450b-5p, ppy-miR-451, ppy-miR-4515, ppy-miR-452, ppy-miR-4520a, ppy-miR-4526, ppy-miR-4529, ppy-miR-453, ppy-miR-454, ppy-miR-455-3p, ppy-miR-455-5p, ppy-miR-4637, ppy-miR-4667, ppy-miR-4672, ppy-miR-4743, ppy-miR-4774, ppy-miR-4782, ppy-miR-4788, ppy-miR-4791, ppy-miR-4796, ppy-miR-4798, ppy-miR-484, ppy-miR-485-3p, ppy-miR-485-5p, ppy-miR-486-5p, ppy-miR-487a, ppy-miR-487b, ppy-miR-488, ppy-miR-489, ppy-miR-490-3p, ppy-miR-490-5p, ppy-miR-491-3p, ppy-miR-491-5p, ppy-miR-492, ppy-miR-493, ppy-miR-494, ppy-miR-495, ppy-miR-496, ppy-miR-497, ppy-miR-498, ppy-miR-499-3p, ppy-miR-499-5p, ppy-miR-500, ppy-miR-502-3p, ppy-miR-502-5p, ppy-miR-503, ppy-miR-504, ppy-miR-505, ppy-miR-506, ppy-miR-507, ppy-miR-508-3p, ppy-miR-508-5p, ppy-miR-509-3p, ppy-miR-509-5p, ppy-miR-510, ppy-miR-511, ppy-miR-512-3p, ppy-miR-513a-1-3p, ppy-miR-513a-2-3p, ppy-miR-513a-5p, ppy-miR-513b, ppy-miR-514, ppy-miR-515-3p, ppy-miR-515-5p, ppy-miR-516a, ppy-miR-516a-3p, ppy-miR-516a-5p, ppy-miR-516b, ppy-miR-517a, ppy-miR-517c-??, ppy-miR-517c-3p, ppy-miR-517c-5p, ppy-miR-518a-3p, ppy-miR-518a-5p, ppy-miR-518c, ppy-miR-518e-3p, ppy-miR-518e-5p, ppy-miR-518f, ppy-miR-519a, ppy-miR-519b, ppy-miR-519d, ppy-miR-519e, ppy-miR-520a-3p, ppy-miR-520a-5p, ppy-miR-520b, ppy-miR-520c-3p, ppy-miR-520c-5p, ppy-miR-520d-3p, ppy-miR-520d-5p, ppy-miR-520e, ppy-miR-520f, ppy-miR-520g, ppy-miR-520h, ppy-miR-520i, ppy-miR-521, ppy-miR-522, ppy-miR-523, ppy-miR-524-3p, ppy-miR-524-5p, ppy-miR-525-3p, ppy-miR-525-5p, ppy-miR-526a, ppy-miR-526b, ppy-miR-527, ppy-miR-532-3p, ppy-miR-532-5p, ppy-miR-539, ppy-miR-541, ppy-miR-542-3p, ppy-miR-542-5p, ppy-miR-543, ppy-miR-544, ppy-miR-545, ppy-miR-548a, ppy-miR-548c, ppy-miR-548e, ppy-miR-548f, ppy-miR-548h, ppy-miR-549, ppy-miR-551a, ppy-miR-551b, ppy-miR-553, ppy-miR-554, ppy-miR-555, ppy-miR-556-3p, ppy-miR-556-5p, ppy-miR-557, ppy-miR-558, ppy-miR-559, ppy-miR-562, ppy-miR-563, ppy-miR-564, ppy-miR-567, ppy-miR-568, ppy-miR-569, ppy-miR-571, ppy-miR-573, ppy-miR-575, ppy-miR-576-3p, ppy-miR-576-5p, ppy-miR-577, ppy-miR-578, ppy-miR-579, ppy-miR-580, ppy-miR-581, ppy-miR-582-3p,

ppy-miR-582-5p, ppy-miR-583, ppy-miR-584, ppy-miR-586, ppy-miR-587, ppy-miR-588, ppy-miR-589, ppy-miR-590-3p, ppy-miR-590-5p, ppy-miR-591, ppy-miR-592, ppy-miR-593, ppy-miR-595, ppy-miR-596, ppy-miR-597, ppy-miR-598, ppy-miR-599, ppy-miR-600, ppy-miR-601, ppy-miR-602, ppy-miR-603, ppy-miR-604, ppy-miR-605, ppy-miR-606, ppy-miR-608, ppy-miR-609, ppy-miR-610, ppy-miR-611, ppy-miR-612, ppy-miR-613, ppy-miR-614, ppy-miR-615-3p, ppy-miR-615-5p, ppy-miR-616, ppy-miR-617, ppy-miR-618, ppy-miR-619, ppy-miR-621, ppy-miR-622, ppy-miR-623, ppy-miR-624, ppy-miR-626, ppy-miR-628-3p, ppy-miR-628-5p, ppy-miR-630, ppy-miR-631, ppy-miR-632, ppy-miR-633, ppy-miR-634, ppy-miR-636, ppy-miR-637, ppy-miR-638, ppy-miR-639, ppy-miR-640, ppy-miR-645, ppy-miR-646, ppy-miR-647, ppy-miR-648, ppy-miR-650, ppy-miR-651, ppy-miR-652, ppy-miR-6529, ppy-miR-653, ppy-miR-654-3p, ppy-miR-654-5p, ppy-miR-655, ppy-miR-656, ppy-miR-658, ppy-miR-660, ppy-miR-663b, ppy-miR-664, ppy-miR-668, ppy-miR-671-3p, ppy-miR-671-5p, ppy-miR-675a, ppy-miR-676, ppy-miR-7, ppy-miR-708, ppy-miR-744, ppy-miR-758, ppy-miR-760, ppy-miR-765, ppy-miR-766, ppy-miR-767-3p, ppy-miR-767-5p, ppy-miR-770-5p, ppy-miR-802, ppy-miR-873, ppy-miR-874, ppy-miR-875-3p, ppy-miR-875-5p, ppy-miR-876-3p, ppy-miR-876-5p, ppy-miR-877, ppy-miR-885-3p, ppy-miR-885-5p, ppy-miR-887, ppy-miR-888, ppy-miR-889, ppy-miR-890, ppy-miR-891a, ppy-miR-891b, ppy-miR-892a, ppy-miR-892b, ppy-miR-9, ppy-miR-92, ppy-miR-920, ppy-miR-921, ppy-miR-922, ppy-miR-924, ppy-miR-92b, ppy-miR-93, ppy-miR-933, ppy-miR-934, ppy-miR-936, ppy-miR-937, ppy-miR-938, ppy-miR-939, ppy-miR-942, ppy-miR-943, ppy-miR-944, ppy-miR-95, ppy-miR-96, ppy-miR-98, ppy-miR-99a, pra-miR8788a-3p, pra-miR8788a-5p, pra-miR8788b-3p, pra-miR8788b-5p, prd-let-7-3p, prd-let-7-5p, prd-lin-4-3p, prd-lin-4-5p, prd-miR-1-3p, prd-miR-1-5p, prd-miR-100-3p, prd-miR-100-5p, prd-miR-1175-3p, prd-miR-1175-5p, prd-miR-124-3p, prd-miR-124-5p, prd-miR-184-3p, prd-miR-184-5p, prd-miR-2-3p, prd-miR-2-5p, prd-miR-234-3p, prd-miR-234-5p, prd-miR-235-3p, prd-miR-235-5p, prd-miR-236-3p, prd-miR-236-5p, prd-miR-239-3p, prd-miR-239-5p, prd-miR-240-3p, prd-miR-240-5p, prd-miR-242-3p, prd-miR-242-5p, prd-miR-252-3p, prd-miR-252-5p, prd-miR-255-3p, prd-miR-255-5p, prd-miR-277-3p, prd-miR-277-5p, prd-miR-34-3p, prd-miR-34-5p, prd-miR-35a-3p, prd-miR-35a-5p, prd-miR-35b-3p, prd-miR-35b-5p, prd-miR-36-3p, prd-miR-36-5p, prd-miR-360-3p, prd-miR-360-5p, prd-miR-37-3p, prd-miR-37-5p, prd-miR-39-3p, prd-miR-39-5p, prd-miR-40-3p, prd-miR-40-5p, prd-miR-44-3p, prd-miR-44-5p, prd-miR-46-3p, prd-miR-46-5p, prd-miR-4816-3p, prd-miR-4816-5p, prd-miR-49-3p, prd-miR-49-5p, prd-miR-50-3p, prd-miR-50-5p, prd-miR-5358a-3p, prd-miR-5358a-5p, prd-miR-5358b-3p, prd-miR-5358b-5p, prd-miR-5359-3p, prd-miR-5359-5p, prd-miR-

5360-3p, prd-miR-5360-5p, prd-miR-5594-3p, prd-miR-5594-5p, prd-miR-58-3p, prd-miR-58-5p, prd-miR-5960-3p, prd-miR-5960-5p, prd-miR-60-3p, prd-miR-60-5p, prd-miR-61-3p, prd-miR-61-5p, prd-miR-67-3p, prd-miR-67-5p, prd-miR-71-3p, prd-miR-71-5p, prd-miR-72-3p, prd-miR-72-5p, prd-miR-7579-3p, prd-miR-7579-5p, prd-miR-76-3p, prd-miR-76-5p, prd-miR-7865-3p, prd-miR-7865-5p, prd-miR-7866-3p, prd-miR-7866-5p, prd-miR-7867-3p, prd-miR-7867-5p, prd-miR-7868-3p, prd-miR-7868-5p, prd-miR-7869-3p, prd-miR-7869-5p, prd-miR-7870-3p, prd-miR-7870-5p, prd-miR-7871-3p, prd-miR-7871-5p, prd-miR-7872-3p, prd-miR-7872-5p, prd-miR-7873a-3p, prd-miR-7873a-5p, prd-miR-7873b-3p, prd-miR-7873b-5p, prd-miR-7874-3p, prd-miR-7874-5p, prd-miR-7875-3p, prd-miR-7875-5p, prd-miR-7876-3p, prd-miR-7876-5p, prd-miR-7877-3p, prd-miR-7877-5p, prd-miR-7878-3p, prd-miR-7878-5p, prd-miR-7879-3p, prd-miR-7879-5p, prd-miR-7880a-3p, prd-miR-7880a-5p, prd-miR-7880b-3p, prd-miR-7880b-5p, prd-miR-7880c-3p, prd-miR-7880c-5p, prd-miR-7881-3p, prd-miR-7881-5p, prd-miR-7882-3p, prd-miR-7882-5p, prd-miR-7883a-3p, prd-miR-7883a-5p, prd-miR-7883b-3p, prd-miR-7883b-5p, prd-miR-7883c-3p, prd-miR-7883c-5p, prd-miR-7884-3p, prd-miR-7884-5p, prd-miR-7885-3p, prd-miR-7885-5p, prd-miR-7886-3p, prd-miR-7886-5p, prd-miR-7887-3p, prd-miR-7887-5p, prd-miR-7888-3p, prd-miR-7888-5p, prd-miR-7889-3p, prd-miR-7889-5p, prd-miR-7890-3p, prd-miR-7890-5p, prd-miR-7891-3p, prd-miR-7891-5p, prd-miR-7892-3p, prd-miR-7892-5p, prd-miR-7893-3p, prd-miR-7893-5p, prd-miR-7894-3p, prd-miR-7894-5p, prd-miR-7895-3p, prd-miR-7895-5p, prd-miR-7896-3p, prd-miR-7896-5p, prd-miR-7897-3p, prd-miR-7897-5p, prd-miR-7899-3p, prd-miR-7899-5p, prd-miR-7900-3p, prd-miR-7900-5p, prd-miR-7901-3p, prd-miR-7901-5p, prd-miR-7902-3p, prd-miR-7902-5p, prd-miR-7903-3p, prd-miR-7903-5p, prd-miR-7904-3p, prd-miR-7904-5p, prd-miR-7905-3p, prd-miR-7905-5p, prd-miR-7906-3p, prd-miR-7906-5p, prd-miR-7907a-3p, prd-miR-7907a-5p, prd-miR-7907b-3p, prd-miR-7907b-5p, prd-miR-7908-3p, prd-miR-7908-5p, prd-miR-7909-3p, prd-miR-7909-5p, prd-miR-7910a-3p, prd-miR-7910a-5p, prd-miR-7910b-3p, prd-miR-7910b-5p, prd-miR-7911a-3p, prd-miR-7911a-5p, prd-miR-7911b-3p, prd-miR-7911b-5p, prd-miR-7911c-3p, prd-miR-7911c-5p, prd-miR-7912-3p, prd-miR-7912-5p, prd-miR-7913-3p, prd-miR-7913-5p, prd-miR-7914-3p, prd-miR-7914-5p, prd-miR-7915-3p, prd-miR-7915-5p, prd-miR-7916-3p, prd-miR-7916-5p, prd-miR-7917-3p, prd-miR-7917-5p, prd-miR-7918a-3p, prd-miR-7918a-5p, prd-miR-7918b-3p, prd-miR-7918b-5p, prd-miR-7918c-3p, prd-miR-7918c-5p, prd-miR-7918d-3p, prd-miR-7918d-5p, prd-miR-7918e-3p, prd-miR-7918e-5p, prd-miR-7918f-3p, prd-miR-7918f-5p, prd-miR-7919-3p, prd-miR-7919-5p, prd-miR-7920-3p, prd-miR-7920-5p, prd-miR-7921-3p, prd-miR-7921-5p, prd-miR-7922-3p, prd-miR-7922-5p, prd-miR-7923-3p,

prd-miR-7923-5p, prd-miR-7924-3p, prd-miR-7924-5p, prd-miR-7925-3p, prd-miR-7925-5p, prd-miR-7926-3p, prd-miR-7926-5p, prd-miR-7927a-3p, prd-miR-7927a-5p, prd-miR-7927b-3p, prd-miR-7927b-5p, prd-miR-7927c-3p, prd-miR-7927c-5p, prd-miR-7927d-3p, prd-miR-7927d-5p, prd-miR-7927e-3p, prd-miR-7927e-5p, prd-miR-7928-3p, prd-miR-7928-5p, prd-miR-7929-3p, prd-miR-7929-5p, prd-miR-7930-3p, prd-miR-7930-5p, prd-miR-7931-3p, prd-miR-7931-5p, prd-miR-7932-3p, prd-miR-7932-5p, prd-miR-7933-3p, prd-miR-7933-5p, prd-miR-7934-3p, prd-miR-7934-5p, prd-miR-7935-3p, prd-miR-7935-5p, prd-miR-7936-3p, prd-miR-7936-5p, prd-miR-7937-3p, prd-miR-7937-5p, prd-miR-7938-3p, prd-miR-7938-5p, prd-miR-7939a-3p, prd-miR-7939a-5p, prd-miR-7939b-3p, prd-miR-7939b-5p, prd-miR-7939c-3p, prd-miR-7939c-5p, prd-miR-7939d-3p, prd-miR-7939d-5p, prd-miR-7939e-3p, prd-miR-7939e-5p, prd-miR-7939f-3p, prd-miR-7939f-5p, prd-miR-7939g-3p, prd-miR-7939g-5p, prd-miR-7939h-3p, prd-miR-7939h-5p, prd-miR-7939i-3p, prd-miR-7939i-5p, prd-miR-7939j-3p, prd-miR-7939j-5p, prd-miR-7940a-3p, prd-miR-7940a-5p, prd-miR-7940b-3p, prd-miR-7940b-5p, prd-miR-7940c-3p, prd-miR-7940c-5p, prd-miR-7941-3p, prd-miR-7941-5p, prd-miR-7942-3p, prd-miR-7942-5p, prd-miR-7943-3p, prd-miR-7943-5p, prd-miR-7944-3p, prd-miR-7944-5p, prd-miR-7945-3p, prd-miR-7945-5p, prd-miR-7946-3p, prd-miR-7946-5p, prd-miR-7947-3p, prd-miR-7947-5p, prd-miR-7948a-3p, prd-miR-7948a-5p, prd-miR-7948b-3p, prd-miR-7948b-5p, prd-miR-7948c-3p, prd-miR-7948c-5p, prd-miR-7948d-3p, prd-miR-7948d-5p, prd-miR-7949-3p, prd-miR-7949-5p, prd-miR-7950a-3p, prd-miR-7950a-5p, prd-miR-7950b-3p, prd-miR-7950b-5p, prd-miR-7950c-3p, prd-miR-7950c-5p, prd-miR-7951-3p, prd-miR-7951-5p, prd-miR-7952-3p, prd-miR-7952-5p, prd-miR-7953-3p, prd-miR-7953-5p, prd-miR-7954-3p, prd-miR-7954-5p, prd-miR-7955-3p, prd-miR-7955-5p, prd-miR-7956-3p, prd-miR-7956-5p, prd-miR-7957a-3p, prd-miR-7957a-5p, prd-miR-7957b-3p, prd-miR-7957b-5p, prd-miR-7957c-3p, prd-miR-7957c-5p, prd-miR-7957d-3p, prd-miR-7957d-5p, prd-miR-7958-3p, prd-miR-7958-5p, prd-miR-7959a-3p, prd-miR-7959a-5p, prd-miR-7959b-3p, prd-miR-7959b-5p, prd-miR-7960-3p, prd-miR-7960-5p, prd-miR-7961-3p, prd-miR-7961-5p, prd-miR-7962-3p, prd-miR-7962-5p, prd-miR-7963-3p, prd-miR-7963-5p, prd-miR-7964a-3p, prd-miR-7964a-5p, prd-miR-7964b-3p, prd-miR-7964b-5p, prd-miR-7965-3p, prd-miR-7965-5p, prd-miR-7966a-3p, prd-miR-7966a-5p, prd-miR-7966b-3p, prd-miR-7966b-5p, prd-miR-7967-3p, prd-miR-7967-5p, prd-miR-7968-3p, prd-miR-7968-5p, prd-miR-7969-3p, prd-miR-7969-5p, prd-miR-7970-3p, prd-miR-7970-5p, prd-miR-7971-3p, prd-miR-7971-5p, prd-miR-81-3p, prd-miR-81-5p, prd-miR-84-3p, prd-miR-84-5p, prd-miR-86-3p, prd-miR-86-5p, prd-miR-87-3p, prd-miR-87-5p, prd-miR-993-3p, prd-miR-993-5p, prd-miR-9a-3p, prd-miR-9a-5p, prd-miR-

9b-3p, prd-miR-9b-5p, prv-miR-LLT1, prv-miR-LLT10a, prv-miR-LLT10b, prv-miR-LLT11a-3p, prv-miR-LLT11a-5p, prv-miR-LLT11b-3p, prv-miR-LLT11b-5p, prv-miR-LLT12, prv-miR-LLT2, prv-miR-LLT3, prv-miR-LLT4, prv-miR-LLT5, prv-miR-LLT6, prv-miR-LLT7-3p, prv-miR-LLT7-5p, prv-miR-LLT8-3p, prv-miR-LLT8-5p, prv-miR-LLT9, psj-miR8788a-3p, psj-miR8788a-5p, psj-miR8788b-3p, psj-miR8788b-5p, pta-miR1309, pta-miR1311, pta-miR1312, pta-miR1313, pta-miR1314, pta-miR1315, pta-miR1316, pta-miR156a, pta-miR156b, pta-miR159a, pta-miR159b, pta-miR159c, pta-miR166a, pta-miR166b, pta-miR166c, pta-miR171, pta-miR319, pta-miR390, pta-miR396, pta-miR398, pta-miR408, pta-miR482a, pta-miR482b, pta-miR482c, pta-miR482d, pta-miR946a-3p, pta-miR946a-5p, pta-miR946b, pta-miR947, pta-miR948, pta-miR949, pta-miR950a, pta-miR950b, pta-miR951, pta-miR952a, pta-miR952b, ptc-miR1444a, ptc-miR1444b, ptc-miR1444c, ptc-miR1444d, ptc-miR1444e, ptc-miR1445, ptc-miR1446a, ptc-miR1446b, ptc-miR1446c, ptc-miR1446d, ptc-miR1446e, ptc-miR1447, ptc-miR1448, ptc-miR1449, ptc-miR1450, ptc-miR156a, ptc-miR156b, ptc-miR156c, ptc-miR156d, ptc-miR156e, ptc-miR156f, ptc-miR156g, ptc-miR156h, ptc-miR156i, ptc-miR156j, ptc-miR156k, ptc-miR156l, ptc-miR159a, ptc-miR159b, ptc-miR159c, ptc-miR159d, ptc-miR159e, ptc-miR160a, ptc-miR160b-3p, ptc-miR160b-5p, ptc-miR160c-3p, ptc-miR160c-5p, ptc-miR160d, ptc-miR160e-3p, ptc-miR160e-5p, ptc-miR160f, ptc-miR160g, ptc-miR160h, ptc-miR162a, ptc-miR162b, ptc-miR164a, ptc-miR164b, ptc-miR164c, ptc-miR164d, ptc-miR164e, ptc-miR164f, ptc-miR166a, ptc-miR166b, ptc-miR166c, ptc-miR166d, ptc-miR166e, ptc-miR166f, ptc-miR166g, ptc-miR166h, ptc-miR166i, ptc-miR166j, ptc-miR166k, ptc-miR166l, ptc-miR166m, ptc-miR166n, ptc-miR166o, ptc-miR166p, ptc-miR166q, ptc-miR167a, ptc-miR167b, ptc-miR167c, ptc-miR167d, ptc-miR167e, ptc-miR167f-3p, ptc-miR167f-5p, ptc-miR167g-3p, ptc-miR167g-5p, ptc-miR167h-3p, ptc-miR167h-5p, ptc-miR168a-3p, ptc-miR168a-5p, ptc-miR168b-3p, ptc-miR168b-5p, ptc-miR169a, ptc-miR169aa, ptc-miR169ab, ptc-miR169ac, ptc-miR169ad, ptc-miR169ae, ptc-miR169af, ptc-miR169ag, ptc-miR169b-3p, ptc-miR169b-5p, ptc-miR169c, ptc-miR169d, ptc-miR169e, ptc-miR169f, ptc-miR169g, ptc-miR169h, ptc-miR169i, ptc-miR169j, ptc-miR169k, ptc-miR169l, ptc-miR169m, ptc-miR169n-3p, ptc-miR169n-5p, ptc-miR169o, ptc-miR169p, ptc-miR169q, ptc-miR169r, ptc-miR169s, ptc-miR169t, ptc-miR169u-3p, ptc-miR169u-5p, ptc-miR169v, ptc-miR169w, ptc-miR169x, ptc-miR169y, ptc-miR169z, ptc-miR171a-3p, ptc-miR171a-5p, ptc-miR171b, ptc-miR171c, ptc-miR171d, ptc-miR171e, ptc-miR171f, ptc-miR171g-3p, ptc-miR171g-5p, ptc-miR171h-3p, ptc-miR171h-5p, ptc-miR171i, ptc-miR171j, ptc-miR171k, ptc-miR171l-3p, ptc-miR171l-5p, ptc-

miR171m, ptc-miR172a, ptc-miR172b-3p, ptc-miR172b-5p, ptc-miR172c, ptc-miR172d, ptc-miR172e, ptc-miR172f, ptc-miR172g-3p, ptc-miR172g-5p, ptc-miR172h-3p, ptc-miR172h-5p, ptc-miR172i, ptc-miR2111a, ptc-miR2111b, ptc-miR319a, ptc-miR319b, ptc-miR319c, ptc-miR319d, ptc-miR319e, ptc-miR319f, ptc-miR319g, ptc-miR319h, ptc-miR319i, ptc-miR3627a, ptc-miR3627b, ptc-miR390a, ptc-miR390b, ptc-miR390c, ptc-miR390d-3p, ptc-miR390d-5p, ptc-miR393a-3p, ptc-miR393a-5p, ptc-miR393b-3p, ptc-miR393b-5p, ptc-miR393c, ptc-miR394a-3p, ptc-miR394a-5p, ptc-miR394b-3p, ptc-miR394b-5p, ptc-miR395a, ptc-miR395b, ptc-miR395c, ptc-miR395d, ptc-miR395e, ptc-miR395f, ptc-miR395g, ptc-miR395h, ptc-miR395i, ptc-miR395j, ptc-miR395k, ptc-miR396a, ptc-miR396b, ptc-miR396c, ptc-miR396d, ptc-miR396e-3p, ptc-miR396e-5p, ptc-miR396f, ptc-miR396g-3p, ptc-miR396g-5p, ptc-miR397a, ptc-miR397b, ptc-miR397c, ptc-miR398a, ptc-miR398b, ptc-miR398c-3p, ptc-miR398c-5p, ptc-miR399a, ptc-miR399b, ptc-miR399c, ptc-miR399d, ptc-miR399e, ptc-miR399f, ptc-miR399g, ptc-miR399h, ptc-miR399i, ptc-miR399j, ptc-miR403a, ptc-miR403b, ptc-miR403c-3p, ptc-miR403c-5p, ptc-miR403d, ptc-miR408-3p, ptc-miR408-5p, ptc-miR472a, ptc-miR472b, ptc-miR474a, ptc-miR474b, ptc-miR474c, ptc-miR475a-3p, ptc-miR475a-5p, ptc-miR475b-3p, ptc-miR475b-5p, ptc-miR475c, ptc-miR475d-3p, ptc-miR475d-5p, ptc-miR476a, ptc-miR476b, ptc-miR477a-3p, ptc-miR477a-5p, ptc-miR477b, ptc-miR477c, ptc-miR477d-3p, ptc-miR477d-5p, ptc-miR477e-3p, ptc-miR477e-5p, ptc-miR477f, ptc-miR478a, ptc-miR478b, ptc-miR478c, ptc-miR478d, ptc-miR478e, ptc-miR478f, ptc-miR478h, ptc-miR478i, ptc-miR478j, ptc-miR478k, ptc-miR478l, ptc-miR478m, ptc-miR478n, ptc-miR478o, ptc-miR478p, ptc-miR478q, ptc-miR478r, ptc-miR478s, ptc-miR480, ptc-miR481a, ptc-miR481b, ptc-miR481c, ptc-miR481d, ptc-miR482a.1, ptc-miR482a.2, ptc-miR482b-3p, ptc-miR482b-5p, ptc-miR482c-3p, ptc-miR482c-5p, ptc-miR482d-3p, ptc-miR482d-5p, ptc-miR530a, ptc-miR530b, ptc-miR536, ptc-miR6421-3p, ptc-miR6421-5p, ptc-miR6422, ptc-miR6423, ptc-miR6425a-3p, ptc-miR6425a-5p, ptc-miR6425b-3p, ptc-miR6425b-5p, ptc-miR6425c-3p, ptc-miR6425c-5p, ptc-miR6425d-3p, ptc-miR6425d-5p, ptc-miR6425e, ptc-miR6426a, ptc-miR6426b, ptc-miR6427-3p, ptc-miR6427-5p, ptc-miR6428, ptc-miR6429, ptc-miR6430, ptc-miR6431, ptc-miR6432, ptc-miR6434, ptc-miR6435, ptc-miR6436, ptc-miR6437a, ptc-miR6437b, ptc-miR6438a, ptc-miR6438b, ptc-miR6439a, ptc-miR6439b, ptc-miR6440a, ptc-miR6440b, ptc-miR6440c, ptc-miR6440d, ptc-miR6441, ptc-miR6442, ptc-miR6443, ptc-miR6444, ptc-miR6445a, ptc-miR6445b, ptc-miR6446, ptc-miR6447, ptc-miR6448, ptc-miR6449, ptc-miR6450a, ptc-miR6450b, ptc-miR6451, ptc-miR6452, ptc-miR6454, ptc-miR6455, ptc-miR6456, ptc-miR6457a, ptc-miR6457b, ptc-miR6458, ptc-miR6459a-3p, ptc-

miR6459a-5p, ptc-miR6459b, ptc-miR6460, ptc-miR6461, ptc-miR6462a, ptc-miR6462b, ptc-miR6462c-3p, ptc-miR6462c-5p, ptc-miR6462d, ptc-miR6462e, ptc-miR6462f, ptc-miR6463, ptc-miR6464, ptc-miR6465, ptc-miR6466-3p, ptc-miR6466-5p, ptc-miR6467, ptc-miR6468-3p, ptc-miR6468-5p, ptc-miR6469, ptc-miR6470, ptc-miR6471, ptc-miR6472, ptc-miR6473, ptc-miR6474, ptc-miR6475, ptc-miR6476a, ptc-miR6476b, ptc-miR6476c, ptc-miR6477, ptc-miR6478, ptc-miR6479, ptc-miR6480, ptc-miR7812, ptc-miR7813, ptc-miR7814, ptc-miR7815, ptc-miR7816, ptc-miR7817a, ptc-miR7817b, ptc-miR7818, ptc-miR7819, ptc-miR7820, ptc-miR7821, ptc-miR7822, ptc-miR7823, ptc-miR7824, ptc-miR7825, ptc-miR7826, ptc-miR7827, ptc-miR7828, ptc-miR7829, ptc-miR7830, ptc-miR7831, ptc-miR7832, ptc-miR7833, ptc-miR7834, ptc-miR7835, ptc-miR7836, ptc-miR7837, ptc-miR7838, ptc-miR7839, ptc-miR7840, ptc-miR7841, ptc-miR7842, ptc-miR827, ptc-miR828a, ptc-miR828b-3p, ptc-miR828b-5p, pte-bantam-3p, pte-bantam-5p, pte-iab-4-2-3p, pte-iab-4-3p, pte-iab-4-5p, pte-iab-8-3p, pte-iab-8-5p, pte-let-7-3p, pte-let-7-5p, pte-miR-1-3p, pte-miR-1-5p, pte-miR-10-3p, pte-miR-10-5p, pte-miR-100a-3p, pte-miR-100a-5p, pte-miR-100b-3p, pte-miR-100b-5p, pte-miR-11938-3p, pte-miR-11938-5p, pte-miR-11939-3p, pte-miR-11939-5p, pte-miR-11940-3p, pte-miR-11940-5p, pte-miR-11941-3p, pte-miR-11941-5p, pte-miR-11942a-3p, pte-miR-11942a-5p, pte-miR-11942b-3p, pte-miR-11942b-5p, pte-miR-11942c-3p, pte-miR-11942c-5p, pte-miR-11942d-3p, pte-miR-11942d-5p, pte-miR-11943-3p, pte-miR-11943-5p, pte-miR-11944-3p, pte-miR-11944-5p, pte-miR-11945-3p, pte-miR-11945-5p, pte-miR-11946-3p, pte-miR-11946-5p, pte-miR-11947a-3p, pte-miR-11947a-5p, pte-miR-11947b-3p, pte-miR-11947b-5p, pte-miR-11948-3p, pte-miR-11948-5p, pte-miR-11949-3p, pte-miR-11949-5p, pte-miR-11950-3p, pte-miR-11950-5p, pte-miR-11951a-3p, pte-miR-11951a-5p, pte-miR-11951b-3p, pte-miR-11951b-5p, pte-miR-11952-3p, pte-miR-11952-5p, pte-miR-11953-3p, pte-miR-11953-5p, pte-miR-11954-3p, pte-miR-11954-5p, pte-miR-11955-3p, pte-miR-11955-5p, pte-miR-11956-3p, pte-miR-11956-5p, pte-miR-11957-3p, pte-miR-11957-5p, pte-miR-11958-3p, pte-miR-11958-5p, pte-miR-11959-3p, pte-miR-11959-5p, pte-miR-11960-3p, pte-miR-11960-5p, pte-miR-11961a-3p, pte-miR-11961a-5p, pte-miR-11961b-3p, pte-miR-11961b-5p, pte-miR-11961c-3p, pte-miR-11961c-5p, pte-miR-11962a-3p, pte-miR-11962a-5p, pte-miR-11962b-3p, pte-miR-11962b-5p, pte-miR-11963a-3p, pte-miR-11963a-5p, pte-miR-11963b-3p, pte-miR-11963b-5p, pte-miR-11964-3p, pte-miR-11964-5p, pte-miR-11965-2-5p, pte-miR-11965-3-5p, pte-miR-11965-3p, pte-miR-11965-5p, pte-miR-11966-3p, pte-miR-11966-5p, pte-miR-11967-3p, pte-miR-11967-5p, pte-miR-11968-3p, pte-miR-11968-5p, pte-miR-125a-3p, pte-miR-125a-5p, pte-miR-125b-3p, pte-miR-125b-5p, pte-miR-14-3p, pte-miR-14-

5p, pte-miR-184-2-5p, pte-miR-184-3p, pte-miR-184-5p, pte-miR-190-3p, pte-miR-190-5p, pte-miR-193a-3p, pte-miR-193a-5p, pte-miR-193b-3p, pte-miR-193b-5p, pte-miR-210-3p, pte-miR-210-5p, pte-miR-263a-3p, pte-miR-263a-5p, pte-miR-263b-3p, pte-miR-263b-5p, pte-miR-275-3p, pte-miR-275-5p, pte-miR-276-2-5p, pte-miR-276-3p, pte-miR-276-5p, pte-miR-277a-3p, pte-miR-277a-5p, pte-miR-277b-3p, pte-miR-277b-5p, pte-miR-278a-3p, pte-miR-278a-5p, pte-miR-278b-3p, pte-miR-278b-5p, pte-miR-279-3p, pte-miR-279-5p, pte-miR-281-3p, pte-miR-281-5p, pte-miR-29a-3p, pte-miR-29a-5p, pte-miR-29b-3p, pte-miR-29b-5p, pte-miR-2a-3p, pte-miR-2a-5p, pte-miR-2b-2-5p, pte-miR-2b-3p, pte-miR-2b-5p, pte-miR-2c-3p, pte-miR-2c-5p, pte-miR-2d-3p, pte-miR-2d-5p, pte-miR-2e-3p, pte-miR-2e-5p, pte-miR-2f-3p, pte-miR-2f-5p, pte-miR-2g-2-5p, pte-miR-2g-3p, pte-miR-2g-5p, pte-miR-305-3p, pte-miR-305-5p, pte-miR-315-3p, pte-miR-315-5p, pte-miR-317-3p, pte-miR-317-5p, pte-miR-34-3p, pte-miR-34-5p, pte-miR-3477-3p, pte-miR-3477-5p, pte-miR-35a-3p, pte-miR-35a-5p, pte-miR-35b-3p, pte-miR-35b-5p, pte-miR-35c-3p, pte-miR-35c-5p, pte-miR-35d-3p, pte-miR-35d-5p, pte-miR-35e-3p, pte-miR-35e-5p, pte-miR-35f-3p, pte-miR-35f-5p, pte-miR-35g-3p, pte-miR-35g-5p, pte-miR-35h-3p, pte-miR-35h-5p, pte-miR-35i-3p, pte-miR-35i-5p, pte-miR-35j-3p, pte-miR-35j-5p, pte-miR-35k-3p, pte-miR-35k-5p, pte-miR-35l-3p, pte-miR-35l-5p, pte-miR-35m-3p, pte-miR-35m-5p, pte-miR-35n-3p, pte-miR-35n-5p, pte-miR-35o-2-5p, pte-miR-35o-3p, pte-miR-35o-5p, pte-miR-35p-3p, pte-miR-35p-5p, pte-miR-35q-1-5p, pte-miR-35q-3p, pte-miR-35q-5p, pte-miR-35r-3p, pte-miR-35r-5p, pte-miR-35s-3p, pte-miR-35s-5p, pte-miR-35t-3p, pte-miR-35t-5p, pte-miR-35u-3p, pte-miR-35u-5p, pte-miR-35v-3p, pte-miR-35v-5p, pte-miR-35w-3p, pte-miR-35w-5p, pte-miR-35x-3p, pte-miR-35x-5p, pte-miR-35y-3p, pte-miR-35y-5p, pte-miR-35z-3p, pte-miR-35z-5p, pte-miR-375-2-5p, pte-miR-375-3p, pte-miR-375-5p, pte-miR-3931-3p, pte-miR-3931-5p, pte-miR-7-3p, pte-miR-7-5p, pte-miR-71-3p, pte-miR-71-5p, pte-miR-745-3p, pte-miR-745-5p, pte-miR-8-3p, pte-miR-8-5p, pte-miR-87a-3p, pte-miR-87a-5p, pte-miR-87b-3p, pte-miR-87b-5p, pte-miR-87c-3p, pte-miR-87c-5p, pte-miR-9-3p, pte-miR-9-5p, pte-miR-92a-3p, pte-miR-92a-5p, pte-miR-92b-3p, pte-miR-92b-5p, pte-miR-92c-3p, pte-miR-92c-5p, pte-miR-96-3p, pte-miR-96-5p, pte-miR-981-3p, pte-miR-981-5p, pte-miR-993a-3p, pte-miR-993a-5p, pte-miR-993b-2-3p, pte-miR-993b-3p, pte-miR-993b-5p, pti-miR5471, pti-miR5472, pti-miR5473, pti-miR5474, pti-miR5475, pti-miR5476, pti-miR5477, pti-miR5478, pti-miR5479, pti-miR5480, pti-miR5481, pti-miR5482, pti-miR5483, ptr-let-7a, ptr-let-7b, ptr-let-7c, ptr-let-7d, ptr-let-7e, ptr-let-7f, ptr-let-7g, ptr-let-7i, ptr-miR-1, ptr-miR-100, ptr-miR-101, ptr-miR-103, ptr-miR-105, ptr-miR-106a, ptr-miR-106b, ptr-miR-107, ptr-miR-10a, ptr-miR-10b, ptr-miR-1178, ptr-miR-1179, ptr-miR-1181, ptr-miR-1182, ptr-miR-

1183, ptr-miR-1184, ptr-miR-1185, ptr-miR-1197, ptr-miR-1199-3p, ptr-miR-1199-5p, ptr-miR-1202, ptr-miR-1203, ptr-miR-1204, ptr-miR-1205, ptr-miR-1206, ptr-miR-1207, ptr-miR-1208, ptr-miR-122, ptr-miR-1224-3p, ptr-miR-1224-5p, ptr-miR-1225, ptr-miR-1226, ptr-miR-1227, ptr-miR-1233, ptr-miR-1234, ptr-miR-1236, ptr-miR-1237, ptr-miR-1244, ptr-miR-1245, ptr-miR-1246, ptr-miR-1247, ptr-miR-1248, ptr-miR-1249, ptr-miR-124a, ptr-miR-1250, ptr-miR-1251, ptr-miR-1252, ptr-miR-1253, ptr-miR-1255b, ptr-miR-1256, ptr-miR-1258, ptr-miR-125a, ptr-miR-125b, ptr-miR-126, ptr-miR-1260b, ptr-miR-1262, ptr-miR-1263, ptr-miR-1264, ptr-miR-1265, ptr-miR-1266, ptr-miR-1267, ptr-miR-127, ptr-miR-1271, ptr-miR-1272, ptr-miR-1275, ptr-miR-1276, ptr-miR-1278, ptr-miR-128, ptr-miR-1281, ptr-miR-1282, ptr-miR-1283a, ptr-miR-1283b, ptr-miR-1284, ptr-miR-1285, ptr-miR-1286, ptr-miR-1288, ptr-miR-1289, ptr-miR-129, ptr-miR-1290, ptr-miR-1291, ptr-miR-1292, ptr-miR-1293, ptr-miR-1294, ptr-miR-1295, ptr-miR-1296, ptr-miR-1297, ptr-miR-1298, ptr-miR-1299, ptr-miR-1302, ptr-miR-1303, ptr-miR-1306, ptr-miR-1307, ptr-miR-130a, ptr-miR-130b, ptr-miR-1322, ptr-miR-1323, ptr-miR-1324, ptr-miR-133a, ptr-miR-133b, ptr-miR-134, ptr-miR-135a, ptr-miR-135b, ptr-miR-136, ptr-miR-137, ptr-miR-138, ptr-miR-139, ptr-miR-140, ptr-miR-141, ptr-miR-142, ptr-miR-143, ptr-miR-144, ptr-miR-145, ptr-miR-146a, ptr-miR-146b, ptr-miR-147a, ptr-miR-147b, ptr-miR-148a, ptr-miR-148b, ptr-miR-149, ptr-miR-150, ptr-miR-151, ptr-miR-152, ptr-miR-153, ptr-miR-154, ptr-miR-155, ptr-miR-15a, ptr-miR-15b, ptr-miR-16, ptr-miR-17-3p, ptr-miR-17-5p, ptr-miR-181a-3p, ptr-miR-181a-5p, ptr-miR-181b, ptr-miR-181c, ptr-miR-181d, ptr-miR-182, ptr-miR-1825, ptr-miR-1827, ptr-miR-183, ptr-miR-184, ptr-miR-185, ptr-miR-186, ptr-miR-188, ptr-miR-18a, ptr-miR-18b, ptr-miR-190a, ptr-miR-190b, ptr-miR-191, ptr-miR-192, ptr-miR-193a, ptr-miR-193b, ptr-miR-194, ptr-miR-195, ptr-miR-196a, ptr-miR-196b, ptr-miR-197, ptr-miR-198, ptr-miR-199a-3p, ptr-miR-199a-5p, ptr-miR-199b, ptr-miR-19a, ptr-miR-19b, ptr-miR-200a, ptr-miR-200c, ptr-miR-202, ptr-miR-203, ptr-miR-204, ptr-miR-205, ptr-miR-206, ptr-miR-208a, ptr-miR-208b, ptr-miR-20a, ptr-miR-20b, ptr-miR-21, ptr-miR-210, ptr-miR-211, ptr-miR-2114, ptr-miR-214, ptr-miR-215, ptr-miR-216a, ptr-miR-216b, ptr-miR-217, ptr-miR-218, ptr-miR-219-1-3p, ptr-miR-219-2-3p, ptr-miR-219-5p, ptr-miR-22, ptr-miR-221, ptr-miR-222, ptr-miR-223, ptr-miR-224, ptr-miR-2355, ptr-miR-2392, ptr-miR-23a, ptr-miR-23b, ptr-miR-23c, ptr-miR-24, ptr-miR-25, ptr-miR-26a, ptr-miR-26b, ptr-miR-27a, ptr-miR-27b, ptr-miR-28, ptr-miR-296, ptr-miR-297, ptr-miR-298, ptr-miR-299, ptr-miR-29a, ptr-miR-29b, ptr-miR-29c, ptr-miR-300, ptr-miR-301a, ptr-miR-301b, ptr-miR-302a, ptr-miR-302b, ptr-miR-302c, ptr-miR-302d, ptr-miR-302e, ptr-miR-302f, ptr-miR-30a-3p, ptr-miR-30a-5p, ptr-miR-30b, ptr-miR-30c, ptr-miR-30d, ptr-miR-30e, ptr-miR-31, ptr-

miR-3117, ptr-miR-3121, ptr-miR-3127, ptr-miR-3129, ptr-miR-3132, ptr-miR-3136, ptr-miR-3138, ptr-miR-3149, ptr-miR-3151, ptr-miR-3154, ptr-miR-3165, ptr-miR-3173, ptr-miR-3192, ptr-miR-3193, ptr-miR-32, ptr-miR-3200, ptr-miR-320a, ptr-miR-320b, ptr-miR-320c, ptr-miR-320d, ptr-miR-320e, ptr-miR-323, ptr-miR-324, ptr-miR-326, ptr-miR-328, ptr-miR-329, ptr-miR-330, ptr-miR-331, ptr-miR-335, ptr-miR-337, ptr-miR-338, ptr-miR-339, ptr-miR-33a, ptr-miR-33b, ptr-miR-340, ptr-miR-342, ptr-miR-345, ptr-miR-346, ptr-miR-34a, ptr-miR-34b, ptr-miR-34c, ptr-miR-361, ptr-miR-362, ptr-miR-365, ptr-miR-3660, ptr-miR-3664, ptr-miR-367, ptr-miR-369, ptr-miR-370, ptr-miR-371, ptr-miR-372, ptr-miR-373, ptr-miR-374a, ptr-miR-374b, ptr-miR-375, ptr-miR-376a, ptr-miR-376b, ptr-miR-376c, ptr-miR-377, ptr-miR-378a, ptr-miR-378b, ptr-miR-378e, ptr-miR-378j, ptr-miR-379, ptr-miR-380, ptr-miR-381, ptr-miR-382, ptr-miR-383, ptr-miR-3937, ptr-miR-3943, ptr-miR-409, ptr-miR-410, ptr-miR-411, ptr-miR-412, ptr-miR-421, ptr-miR-422a, ptr-miR-423, ptr-miR-424, ptr-miR-425, ptr-miR-431, ptr-miR-432, ptr-miR-433, ptr-miR-4423, ptr-miR-4428, ptr-miR-4446, ptr-miR-448, ptr-miR-449a, ptr-miR-449b, ptr-miR-449c, ptr-miR-4504, ptr-miR-450a, ptr-miR-450b, ptr-miR-451, ptr-miR-4510, ptr-miR-452, ptr-miR-4524a, ptr-miR-453, ptr-miR-4536, ptr-miR-454, ptr-miR-455, ptr-miR-4654, ptr-miR-4660, ptr-miR-4667, ptr-miR-4677, ptr-miR-4742, ptr-miR-4743, ptr-miR-484, ptr-miR-485, ptr-miR-486, ptr-miR-487a, ptr-miR-487b, ptr-miR-488, ptr-miR-489, ptr-miR-490, ptr-miR-491, ptr-miR-492, ptr-miR-494, ptr-miR-495, ptr-miR-496, ptr-miR-497, ptr-miR-498, ptr-miR-499, ptr-miR-500, ptr-miR-501, ptr-miR-502, ptr-miR-503, ptr-miR-504, ptr-miR-505, ptr-miR-506, ptr-miR-507, ptr-miR-508, ptr-miR-509a, ptr-miR-509b, ptr-miR-510, ptr-miR-511, ptr-miR-512, ptr-miR-513a, ptr-miR-513b, ptr-miR-514, ptr-miR-515, ptr-miR-516a, ptr-miR-516b, ptr-miR-517a, ptr-miR-517b, ptr-miR-518a, ptr-miR-518b, ptr-miR-518c, ptr-miR-518d, ptr-miR-518e, ptr-miR-518f, ptr-miR-518g-3p, ptr-miR-518g-5p, ptr-miR-519a, ptr-miR-519b, ptr-miR-519c, ptr-miR-519d, ptr-miR-519e, ptr-miR-519f-3p, ptr-miR-519f-5p, ptr-miR-520a, ptr-miR-520b, ptr-miR-520c, ptr-miR-520d, ptr-miR-520e, ptr-miR-520f, ptr-miR-520g, ptr-miR-520h, ptr-miR-521, ptr-miR-522, ptr-miR-523, ptr-miR-524, ptr-miR-525, ptr-miR-526a, ptr-miR-526b, ptr-miR-527, ptr-miR-532, ptr-miR-539, ptr-miR-543, ptr-miR-544, ptr-miR-545, ptr-miR-548a, ptr-miR-548b, ptr-miR-548c, ptr-miR-548e, ptr-miR-548f, ptr-miR-548h, ptr-miR-548i, ptr-miR-548j, ptr-miR-548k, ptr-miR-548l, ptr-miR-548n, ptr-miR-548o, ptr-miR-548p, ptr-miR-549, ptr-miR-550, ptr-miR-551a, ptr-miR-551b, ptr-miR-552, ptr-miR-553, ptr-miR-554, ptr-miR-555, ptr-miR-556, ptr-miR-557, ptr-miR-558, ptr-miR-559, ptr-miR-561, ptr-miR-562, ptr-miR-564, ptr-miR-567, ptr-miR-568, ptr-miR-569, ptr-miR-570, ptr-miR-571, ptr-miR-572, ptr-miR-575, ptr-miR-576, ptr-miR-577, ptr-

miR-579, ptr-miR-580, ptr-miR-581, ptr-miR-582, ptr-miR-583, ptr-miR-584, ptr-miR-586, ptr-miR-587, ptr-miR-588, ptr-miR-589, ptr-miR-590, ptr-miR-591, ptr-miR-592, ptr-miR-593, ptr-miR-595, ptr-miR-596, ptr-miR-597, ptr-miR-598, ptr-miR-599, ptr-miR-600, ptr-miR-601, ptr-miR-602, ptr-miR-604, ptr-miR-605, ptr-miR-606, ptr-miR-609, ptr-miR-610, ptr-miR-612, ptr-miR-6127, ptr-miR-6128, ptr-miR-6129, ptr-miR-613, ptr-miR-6130, ptr-miR-6131, ptr-miR-6132, ptr-miR-6133, ptr-miR-6134, ptr-miR-614, ptr-miR-615, ptr-miR-616, ptr-miR-617, ptr-miR-618, ptr-miR-619, ptr-miR-621, ptr-miR-622, ptr-miR-623, ptr-miR-624, ptr-miR-626, ptr-miR-627, ptr-miR-628, ptr-miR-630, ptr-miR-631, ptr-miR-632, ptr-miR-633, ptr-miR-634, ptr-miR-635, ptr-miR-637, ptr-miR-640, ptr-miR-641, ptr-miR-642, ptr-miR-643, ptr-miR-645, ptr-miR-646, ptr-miR-649, ptr-miR-650, ptr-miR-651, ptr-miR-652, ptr-miR-653, ptr-miR-654, ptr-miR-655, ptr-miR-656, ptr-miR-657, ptr-miR-658, ptr-miR-660, ptr-miR-661, ptr-miR-663a, ptr-miR-663b, ptr-miR-664a, ptr-miR-664b, ptr-miR-665, ptr-miR-668, ptr-miR-670, ptr-miR-671, ptr-miR-676, ptr-miR-7, ptr-miR-708, ptr-miR-711, ptr-miR-718, ptr-miR-744, ptr-miR-758, ptr-miR-759, ptr-miR-760, ptr-miR-761, ptr-miR-762, ptr-miR-764, ptr-miR-765, ptr-miR-766, ptr-miR-767, ptr-miR-770, ptr-miR-802, ptr-miR-873, ptr-miR-874, ptr-miR-875, ptr-miR-876, ptr-miR-877, ptr-miR-885, ptr-miR-887, ptr-miR-889, ptr-miR-890, ptr-miR-891a, ptr-miR-891b, ptr-miR-892a, ptr-miR-892b, ptr-miR-9, ptr-miR-92, ptr-miR-920, ptr-miR-922, ptr-miR-924, ptr-miR-92b, ptr-miR-93, ptr-miR-933, ptr-miR-934, ptr-miR-935, ptr-miR-936, ptr-miR-937, ptr-miR-938, ptr-miR-939, ptr-miR-940, ptr-miR-942, ptr-miR-943, ptr-miR-944, ptr-miR-95, ptr-miR-96, ptr-miR-98, ptr-miR-99a, ptr-miR-99b, ptvpv2a-miR-P1-3p, ptvpv2a-miR-P1-5p, pvu-miR1514a, pvu-miR159a.1, pvu-miR159a.2, pvu-miR166a, pvu-miR2118, pvu-miR2119, pvu-miR319c, pvu-miR399a, pvu-miR482-3p, pvu-miR482-5p, pxy-bantam, pxy-miR-10-3p, pxy-miR-10-5p, pxy-miR-184, pxy-miR-193, pxy-miR-252, pxy-miR-2525-3p, pxy-miR-2525-5p, pxy-miR-263, pxy-miR-2733a, pxy-miR-2733b-3p, pxy-miR-2733b-5p, pxy-miR-274, pxy-miR-2756, pxy-miR-2767, pxy-miR-277, pxy-miR-279a, pxy-miR-279b-3p, pxy-miR-279b-5p, pxy-miR-281, pxy-miR-283, pxy-miR-2a-3p, pxy-miR-2a-5p, pxy-miR-2b, pxy-miR-306, pxy-miR-308, pxy-miR-3286, pxy-miR-6307, pxy-miR-6497, pxy-miR-745, pxy-miR-750, pxy-miR-7a, pxy-miR-7b, pxy-miR-8486, pxy-miR-8487, pxy-miR-8488, pxy-miR-8489a-3p, pxy-miR-8489a-5p, pxy-miR-8489b, pxy-miR-8490, pxy-miR-8491, pxy-miR-8492, pxy-miR-8493, pxy-miR-8494-3p, pxy-miR-8494-5p, pxy-miR-8495-3p, pxy-miR-8495-5p, pxy-miR-8496, pxy-miR-8497, pxy-miR-8498, pxy-miR-8499a, pxy-miR-8499b, pxy-miR-8499c, pxy-miR-8500, pxy-miR-8501, pxy-miR-8502, pxy-miR-8503, pxy-miR-8504, pxy-miR-8505, pxy-miR-8506, pxy-miR-8507-3p, pxy-miR-8507-5p, pxy-

miR-8508, pxy-miR-8509, pxy-miR-8510a-3p, pxy-miR-8510a-5p, pxy-miR-8510a-8-3p, pxy-miR-8510b-3p, pxy-miR-8510b-5p, pxy-miR-8511, pxy-miR-8512, pxy-miR-8513-3p, pxy-miR-8513-5p, pxy-miR-8514-3p, pxy-miR-8514-5p, pxy-miR-8515, pxy-miR-8516, pxy-miR-8517a, pxy-miR-8517b, pxy-miR-8518, pxy-miR-8519, pxy-miR-8520-3p, pxy-miR-8520-5p, pxy-miR-8521a, pxy-miR-8521b, pxy-miR-8522, pxy-miR-8523, pxy-miR-8524-3p, pxy-miR-8524-5p, pxy-miR-8525, pxy-miR-8526, pxy-miR-8527, pxy-miR-8528a, pxy-miR-8528b, pxy-miR-8529, pxy-miR-8530-3p, pxy-miR-8530-5p, pxy-miR-8531, pxy-miR-8532-3p, pxy-miR-8532-5p, pxy-miR-8533, pxy-miR-8534-3p, pxy-miR-8534-5p, pxy-miR-8535-3p, pxy-miR-8535-5p, pxy-miR-8536a, pxy-miR-8536b-3p, pxy-miR-8536b-5p, pxy-miR-8537-3p, pxy-miR-8537-5p, pxy-miR-8538, pxy-miR-8539-3p, pxy-miR-8539-5p, pxy-miR-8540, pxy-miR-8541, pxy-miR-8542, pxy-miR-8543, pxy-miR-8544-3p, pxy-miR-8544-5p, pxy-miR-8545, pxy-miR-8546, pxy-miR-8547, pxy-miR-929, pxy-miR-965, pxy-miR-9a, pxy-miR-9b-3p, pxy-miR-9b-5p, racpv-miR-P1-3p, racpv-miR-P1-5p, rco-miR156a, rco-miR156b, rco-miR156c, rco-miR156d, rco-miR156e, rco-miR156f, rco-miR156g, rco-miR156h, rco-miR159, rco-miR160a, rco-miR160b, rco-miR160c, rco-miR162, rco-miR164a, rco-miR164b, rco-miR164c, rco-miR164d, rco-miR166a, rco-miR166b, rco-miR166c, rco-miR166d, rco-miR166e, rco-miR167a, rco-miR167b, rco-miR167c, rco-miR168, rco-miR169a, rco-miR169b, rco-miR169c, rco-miR171a, rco-miR171b, rco-miR171c, rco-miR171d, rco-miR171e, rco-miR171f, rco-miR171g, rco-miR172, rco-miR319a, rco-miR319b, rco-miR319c, rco-miR319d, rco-miR390a, rco-miR390b, rco-miR393, rco-miR395a, rco-miR395b, rco-miR395c, rco-miR395d, rco-miR395e, rco-miR396, rco-miR397, rco-miR398a, rco-miR398b, rco-miR399a, rco-miR399b, rco-miR399c, rco-miR399d, rco-miR399e, rco-miR399f, rco-miR403a, rco-miR403b, rco-miR408, rco-miR535, rgl-miR164, rgl-miR5137, rgl-miR5138, rgl-miR5139, rgl-miR5140, rgl-miR5141, rgl-miR5142, rgl-miR5573, rgl-miR5574, rgl-miR5575, rgl-miR5576, rgl-miR5577, rgl-miR5578, rgl-miR7797a, rgl-miR7797b, rgl-miR7798, rgl-miR7799, rgl-miR7800, rgl-miR7801, rgl-miR7802, rgl-miR7803a, rgl-miR7803b-3p, rgl-miR7803b-5p, rgl-miR7804-3p, rgl-miR7804-5p, rgl-miR7805-3p, rgl-miR7805-5p, rgl-miR7806, rgl-miR7807a-3p, rgl-miR7807a-5p, rgl-miR7807b-3p, rgl-miR7807b-5p, rgl-miR7808, rgl-miR7809, rgl-miR7810, rgl-miR7811, rgl-miR7972, rlcv-miR-rL1-1-3p, rlcv-miR-rL1-1-5p, rlcv-miR-rL1-10-3p, rlcv-miR-rL1-10-5p, rlcv-miR-rL1-11-3p, rlcv-miR-rL1-11-5p, rlcv-miR-rL1-12-3p, rlcv-miR-rL1-12-5p, rlcv-miR-rL1-13-3p, rlcv-miR-rL1-13-5p, rlcv-miR-rL1-14-3p, rlcv-miR-rL1-14-5p, rlcv-miR-rL1-15-3p, rlcv-miR-rL1-15-5p, rlcv-miR-rL1-16-3p, rlcv-miR-rL1-16-5p, rlcv-miR-rL1-17-3p, rlcv-miR-rL1-17-5p, rlcv-miR-rL1-18-3p, rlcv-

miR-rL1-18-5p, rlcv-miR-rL1-19-3p, rlcv-miR-rL1-19-5p, rlcv-miR-rL1-2-3p, rlcv-miR-rL1-2-5p, rlcv-miR-rL1-20-3p, rlcv-miR-rL1-20-5p, rlcv-miR-rL1-21-3p, rlcv-miR-rL1-21-5p, rlcv-miR-rL1-22-3p, rlcv-miR-rL1-22-5p, rlcv-miR-rL1-23-3p, rlcv-miR-rL1-23-5p, rlcv-miR-rL1-24-3p, rlcv-miR-rL1-24-5p, rlcv-miR-rL1-25-3p, rlcv-miR-rL1-25-5p, rlcv-miR-rL1-26-3p, rlcv-miR-rL1-26-5p, rlcv-miR-rL1-27-3p, rlcv-miR-rL1-27-5p, rlcv-miR-rL1-28-3p, rlcv-miR-rL1-28-5p, rlcv-miR-rL1-29-3p, rlcv-miR-rL1-29-5p, rlcv-miR-rL1-3-3p, rlcv-miR-rL1-3-5p, rlcv-miR-rL1-30-3p, rlcv-miR-rL1-30-5p, rlcv-miR-rL1-31-3p, rlcv-miR-rL1-31-5p, rlcv-miR-rL1-32-3p, rlcv-miR-rL1-32-5p, rlcv-miR-rL1-33-3p, rlcv-miR-rL1-33-5p, rlcv-miR-rL1-34-3p, rlcv-miR-rL1-34-5p, rlcv-miR-rL1-35-3p, rlcv-miR-rL1-35-5p, rlcv-miR-rL1-4-3p, rlcv-miR-rL1-4-5p, rlcv-miR-rL1-5-3p, rlcv-miR-rL1-5-5p, rlcv-miR-rL1-6-3p, rlcv-miR-rL1-6-5p, rlcv-miR-rL1-7-3p, rlcv-miR-rL1-7-5p, rlcv-miR-rL1-8-3p, rlcv-miR-rL1-8-5p, rlcv-miR-rL1-9-3p, rlcv-miR-rL1-9-5p, rmi-miR-5316a, rmi-miR-5316b, rmi-miR-5317a, rmi-miR-5317b, rmi-miR-5318, rmi-miR-5319, rmi-miR-5320, rmi-miR-5321, rmi-miR-5322, rmi-miR-5323, rmi-miR-5324, rmi-miR-5325, rmi-miR-5326, rmi-miR-5327, rmi-miR-5328, rmi-miR-5329, rmi-miR-5330, rmi-miR-5331, rmi-miR-5332, rmi-miR-5333, rmi-miR-5334, rmi-miR-5335, rmi-miR-5336, rmi-miR-5341, rno-let-7a-1-3p, rno-let-7a-2-3p, rno-let-7a-5p, rno-let-7b-3p, rno-let-7b-5p, rno-let-7c-1-3p, rno-let-7c-2-3p, rno-let-7c-5p, rno-let-7d-3p, rno-let-7d-5p, rno-let-7e-3p, rno-let-7e-5p, rno-let-7f-1-3p, rno-let-7f-2-3p, rno-let-7f-5p, rno-let-7g-3p, rno-let-7g-5p, rno-let-7i-3p, rno-let-7i-5p, rno-miR-1-3p, rno-miR-1-5p, rno-miR-100-3p, rno-miR-100-5p, rno-miR-101a-3p, rno-miR-101a-5p, rno-miR-101b-3p, rno-miR-101b-5p, rno-miR-103-1-5p, rno-miR-103-2-5p, rno-miR-103-3p, rno-miR-105, rno-miR-106b-3p, rno-miR-106b-5p, rno-miR-107-3p, rno-miR-107-5p, rno-miR-10a-3p, rno-miR-10a-5p, rno-miR-10b-3p, rno-miR-10b-5p, rno-miR-1188-3p, rno-miR-1188-5p, rno-miR-1193-3p, rno-miR-1193-5p, rno-miR-1199-3p, rno-miR-1199-5p, rno-miR-122-3p, rno-miR-122-5p, rno-miR-1224, rno-miR-122b, rno-miR-124-3p, rno-miR-124-5p, rno-miR-1247-3p, rno-miR-1247-5p, rno-miR-1249, rno-miR-125a-3p, rno-miR-125a-5p, rno-miR-125b-1-3p, rno-miR-125b-2-3p, rno-miR-125b-5p, rno-miR-126a-3p, rno-miR-126a-5p, rno-miR-126b, rno-miR-127-3p, rno-miR-127-5p, rno-miR-128-1-5p, rno-miR-128-2-5p, rno-miR-128-3p, rno-miR-129-1-3p, rno-miR-129-2-3p, rno-miR-129-5p, rno-miR-1297, rno-miR-1298, rno-miR-1306-3p, rno-miR-1306-5p, rno-miR-130a-3p, rno-miR-130a-5p, rno-miR-130b-3p, rno-miR-130b-5p, rno-miR-132-3p, rno-miR-132-5p, rno-miR-133a-3p, rno-miR-133a-5p, rno-miR-133b-3p, rno-miR-133b-5p, rno-miR-133c, rno-miR-134-3p, rno-miR-134-5p, rno-miR-135a-3p, rno-miR-135a-5p, rno-miR-135b-3p, rno-miR-135b-5p, rno-miR-136-3p, rno-miR-136-5p, rno-miR-137-3p, rno-miR-137-5p, rno-miR-138-1-3p,

rno-miR-138-2-3p, rno-miR-138-5p, rno-miR-139-3p, rno-miR-139-5p, rno-miR-140-3p, rno-miR-140-5p, rno-miR-141-3p, rno-miR-141-5p, rno-miR-142-3p, rno-miR-142-5p, rno-miR-143-3p, rno-miR-143-5p, rno-miR-144-3p, rno-miR-144-5p, rno-miR-145-3p, rno-miR-145-5p, rno-miR-146a-3p, rno-miR-146a-5p, rno-miR-146b-3p, rno-miR-146b-5p, rno-miR-147, rno-miR-148a-3p, rno-miR-148a-5p, rno-miR-148b-3p, rno-miR-148b-5p, rno-miR-149-3p, rno-miR-149-5p, rno-miR-150-3p, rno-miR-150-5p, rno-miR-151-3p, rno-miR-151-5p, rno-miR-152-3p, rno-miR-152-5p, rno-miR-153-3p, rno-miR-153-5p, rno-miR-154-3p, rno-miR-154-5p, rno-miR-155-3p, rno-miR-155-5p, rno-miR-15a-3p, rno-miR-15a-5p, rno-miR-15b-3p, rno-miR-15b-5p, rno-miR-16-3p, rno-miR-16-5p, rno-miR-17-1-3p, rno-miR-17-2-3p, rno-miR-17-5p, rno-miR-181a-1-3p, rno-miR-181a-2-3p, rno-miR-181a-5p, rno-miR-181b-1-3p, rno-miR-181b-2-3p, rno-miR-181b-5p, rno-miR-181c-3p, rno-miR-181c-5p, rno-miR-181d-3p, rno-miR-181d-5p, rno-miR-182, rno-miR-183-3p, rno-miR-183-5p, rno-miR-1839-3p, rno-miR-1839-5p, rno-miR-184, rno-miR-1843a-3p, rno-miR-1843a-5p, rno-miR-1843b-3p, rno-miR-1843b-5p, rno-miR-185-3p, rno-miR-185-5p, rno-miR-186-3p, rno-miR-186-5p, rno-miR-187-3p, rno-miR-187-5p, rno-miR-188-3p, rno-miR-188-5p, rno-miR-1896, rno-miR-18a-3p, rno-miR-18a-5p, rno-miR-190a-3p, rno-miR-190a-5p, rno-miR-190b-3p, rno-miR-190b-5p, rno-miR-1912-3p, rno-miR-1912-5p, rno-miR-191a-3p, rno-miR-191a-5p, rno-miR-191b, rno-miR-192-3p, rno-miR-192-5p, rno-miR-193a-3p, rno-miR-193a-5p, rno-miR-193b-3p, rno-miR-193b-5p, rno-miR-194-3p, rno-miR-194-5p, rno-miR-1949, rno-miR-195-3p, rno-miR-195-5p, rno-miR-1956-3p, rno-miR-1956-5p, rno-miR-196a-3p, rno-miR-196a-5p, rno-miR-196b-3p, rno-miR-196b-5p, rno-miR-196c-3p, rno-miR-196c-5p, rno-miR-199a-3p, rno-miR-199a-5p, rno-miR-19a-3p, rno-miR-19a-5p, rno-miR-19b-1-5p, rno-miR-19b-2-5p, rno-miR-19b-3p, rno-miR-1b, rno-miR-200a-3p, rno-miR-200a-5p, rno-miR-200b-3p, rno-miR-200b-5p, rno-miR-200c-3p, rno-miR-200c-5p, rno-miR-201-3p, rno-miR-201-5p, rno-miR-202-3p, rno-miR-202-5p, rno-miR-203a-3p, rno-miR-203a-5p, rno-miR-203b-3p, rno-miR-203b-5p, rno-miR-204-3p, rno-miR-204-5p, rno-miR-205, rno-miR-206-3p, rno-miR-206-5p, rno-miR-207, rno-miR-208a-3p, rno-miR-208a-5p, rno-miR-208b-3p, rno-miR-208b-5p, rno-miR-20a-3p, rno-miR-20a-5p, rno-miR-20b-3p, rno-miR-20b-5p, rno-miR-21-3p, rno-miR-21-5p, rno-miR-210-3p, rno-miR-210-5p, rno-miR-211-3p, rno-miR-211-5p, rno-miR-212-3p, rno-miR-212-5p, rno-miR-214-3p, rno-miR-214-5p, rno-miR-215, rno-miR-216a-3p, rno-miR-216a-5p, rno-miR-216b-3p, rno-miR-216b-5p, rno-miR-217-3p, rno-miR-217-5p, rno-miR-218a-1-3p, rno-miR-218a-2-3p, rno-miR-218a-5p, rno-miR-218b, rno-miR-219a-1-3p, rno-miR-219a-2-3p, rno-miR-219a-5p, rno-miR-219b, rno-miR-22-3p, rno-miR-22-5p, rno-miR-221-3p, rno-miR-221-5p, rno-miR-222-3p, rno-miR-

222-5p, rno-miR-223-3p, rno-miR-223-5p, rno-miR-224-3p, rno-miR-224-5p, rno-miR-23a-3p, rno-miR-23a-5p, rno-miR-23b-3p, rno-miR-23b-5p, rno-miR-24-1-5p, rno-miR-24-2-5p, rno-miR-24-3p, rno-miR-25-3p, rno-miR-25-5p, rno-miR-26a-3p, rno-miR-26a-5p, rno-miR-26b-3p, rno-miR-26b-5p, rno-miR-27a-3p, rno-miR-27a-5p, rno-miR-27b-3p, rno-miR-27b-5p, rno-miR-28-3p, rno-miR-28-5p, rno-miR-290, rno-miR-291a-3p, rno-miR-291a-5p, rno-miR-291b, rno-miR-292-3p, rno-miR-292-5p, rno-miR-293-3p, rno-miR-293-5p, rno-miR-294, rno-miR-295-3p, rno-miR-295-5p, rno-miR-296-3p, rno-miR-296-5p, rno-miR-297, rno-miR-298-3p, rno-miR-298-5p, rno-miR-2985, rno-miR-299a-3p, rno-miR-299a-5p, rno-miR-299b-3p, rno-miR-299b-5p, rno-miR-29a-3p, rno-miR-29a-5p, rno-miR-29b-1-5p, rno-miR-29b-3p, rno-miR-29b-5p, rno-miR-29c-3p, rno-miR-29c-5p, rno-miR-300-3p, rno-miR-300-5p, rno-miR-301a-3p, rno-miR-301a-5p, rno-miR-301b-3p, rno-miR-301b-5p, rno-miR-3064-3p, rno-miR-3064-5p, rno-miR-3065-3p, rno-miR-3065-5p, rno-miR-3068-3p, rno-miR-3068-5p, rno-miR-3072, rno-miR-3074, rno-miR-3075, rno-miR-3084a-1-5p, rno-miR-3084a-3p, rno-miR-3084a-5p, rno-miR-3084b-3p, rno-miR-3084b-5p, rno-miR-3085, rno-miR-3099, rno-miR-30a-3p, rno-miR-30a-5p, rno-miR-30b-3p, rno-miR-30b-5p, rno-miR-30c-1-3p, rno-miR-30c-2-3p, rno-miR-30c-5p, rno-miR-30d-3p, rno-miR-30d-5p, rno-miR-30e-3p, rno-miR-30e-5p, rno-miR-3102, rno-miR-3120, rno-miR-31a-3p, rno-miR-31a-5p, rno-miR-31b, rno-miR-32-3p, rno-miR-32-5p, rno-miR-320-3p, rno-miR-320-5p, rno-miR-322-3p, rno-miR-322-5p, rno-miR-323-3p, rno-miR-323-5p, rno-miR-324-3p, rno-miR-324-5p, rno-miR-325-3p, rno-miR-325-5p, rno-miR-326-3p, rno-miR-326-5p, rno-miR-327, rno-miR-328a-3p, rno-miR-328a-5p, rno-miR-328b-3p, rno-miR-329-3p, rno-miR-329-5p, rno-miR-33-3p, rno-miR-33-5p, rno-miR-330-3p, rno-miR-330-5p, rno-miR-331-3p, rno-miR-331-5p, rno-miR-335, rno-miR-336-3p, rno-miR-336-5p, rno-miR-337-3p, rno-miR-337-5p, rno-miR-338-3p, rno-miR-338-5p, rno-miR-339-3p, rno-miR-339-5p, rno-miR-340-3p, rno-miR-340-5p, rno-miR-341, rno-miR-342-3p, rno-miR-342-5p, rno-miR-343, rno-miR-344a-3p, rno-miR-344a-5p, rno-miR-344b-1-3p, rno-miR-344b-3p, rno-miR-344b-5p, rno-miR-344g, rno-miR-344i, rno-miR-345-3p, rno-miR-345-5p, rno-miR-346, rno-miR-347, rno-miR-3473, rno-miR-349, rno-miR-34a-3p, rno-miR-34a-5p, rno-miR-34b-3p, rno-miR-34b-5p, rno-miR-34c-3p, rno-miR-34c-5p, rno-miR-350, rno-miR-351-3p, rno-miR-351-5p, rno-miR-352, rno-miR-3541, rno-miR-3542, rno-miR-3543, rno-miR-3544, rno-miR-3546, rno-miR-3547, rno-miR-3548, rno-miR-3549, rno-miR-3550, rno-miR-3551-3p, rno-miR-3551-5p, rno-miR-3552, rno-miR-3553, rno-miR-3556a, rno-miR-3556b, rno-miR-3557-3p, rno-miR-3557-5p, rno-miR-3558-3p, rno-miR-3558-5p, rno-miR-3559-3p, rno-miR-3559-5p, rno-miR-3560, rno-miR-3561-3p, rno-miR-3561-5p, rno-miR-3562, rno-miR-3564, rno-miR-

3566, rno-miR-3568, rno-miR-3569, rno-miR-3570, rno-miR-3571, rno-miR-3572, rno-miR-3573-3p, rno-miR-3573-5p, rno-miR-3574, rno-miR-3575, rno-miR-3576, rno-miR-3577, rno-miR-3578, rno-miR-3579, rno-miR-3580-3p, rno-miR-3580-5p, rno-miR-3583-3p, rno-miR-3583-5p, rno-miR-3584-3p, rno-miR-3584-5p, rno-miR-3585-3p, rno-miR-3585-5p, rno-miR-3586-3p, rno-miR-3586-5p, rno-miR-3587, rno-miR-3588, rno-miR-3589, rno-miR-3590-3p, rno-miR-3590-5p, rno-miR-3592, rno-miR-3593-3p, rno-miR-3593-5p, rno-miR-3594-3p, rno-miR-3594-5p, rno-miR-3595, rno-miR-3596a, rno-miR-3596b, rno-miR-3596c, rno-miR-3596d, rno-miR-361-3p, rno-miR-361-5p, rno-miR-362-3p, rno-miR-362-5p, rno-miR-363-3p, rno-miR-363-5p, rno-miR-365-3p, rno-miR-365-5p, rno-miR-369-3p, rno-miR-369-5p, rno-miR-370-3p, rno-miR-370-5p, rno-miR-374-3p, rno-miR-374-5p, rno-miR-375-3p, rno-miR-375-5p, rno-miR-376a-3p, rno-miR-376a-5p, rno-miR-376b-3p, rno-miR-376b-5p, rno-miR-376c-3p, rno-miR-376c-5p, rno-miR-377-3p, rno-miR-377-5p, rno-miR-378a-3p, rno-miR-378a-5p, rno-miR-378b, rno-miR-379-3p, rno-miR-379-5p, rno-miR-380-3p, rno-miR-380-5p, rno-miR-381-3p, rno-miR-381-5p, rno-miR-382-3p, rno-miR-382-5p, rno-miR-383-3p, rno-miR-383-5p, rno-miR-384-3p, rno-miR-384-5p, rno-miR-409a-3p, rno-miR-409a-5p, rno-miR-409b, rno-miR-410-3p, rno-miR-410-5p, rno-miR-411-3p, rno-miR-411-5p, rno-miR-412-3p, rno-miR-412-5p, rno-miR-421-3p, rno-miR-421-5p, rno-miR-423-3p, rno-miR-423-5p, rno-miR-425-3p, rno-miR-425-5p, rno-miR-429, rno-miR-431, rno-miR-433-3p, rno-miR-433-5p, rno-miR-434-3p, rno-miR-434-5p, rno-miR-448-3p, rno-miR-448-5p, rno-miR-449a-3p, rno-miR-449a-5p, rno-miR-449c-3p, rno-miR-449c-5p, rno-miR-450a-3p, rno-miR-450a-5p, rno-miR-450b-3p, rno-miR-450b-5p, rno-miR-451-3p, rno-miR-451-5p, rno-miR-452-3p, rno-miR-452-5p, rno-miR-455-3p, rno-miR-455-5p, rno-miR-463-3p, rno-miR-463-5p, rno-miR-465-3p, rno-miR-465-5p, rno-miR-466b-2-3p, rno-miR-466b-3p, rno-miR-466b-4-3p, rno-miR-466b-5p, rno-miR-466c-3p, rno-miR-466c-5p, rno-miR-466d, rno-miR-471-3p, rno-miR-471-5p, rno-miR-483-3p, rno-miR-483-5p, rno-miR-484, rno-miR-485-3p, rno-miR-485-5p, rno-miR-486, rno-miR-487b-3p, rno-miR-487b-5p, rno-miR-488-3p, rno-miR-488-5p, rno-miR-489-3p, rno-miR-489-5p, rno-miR-490-3p, rno-miR-490-5p, rno-miR-493-3p, rno-miR-493-5p, rno-miR-494-3p, rno-miR-494-5p, rno-miR-495, rno-miR-496-3p, rno-miR-496-5p, rno-miR-497-3p, rno-miR-497-5p, rno-miR-499-3p, rno-miR-499-5p, rno-miR-500-3p, rno-miR-500-5p, rno-miR-501-3p, rno-miR-501-5p, rno-miR-503-3p, rno-miR-503-5p, rno-miR-504, rno-miR-505-3p, rno-miR-505-5p, rno-miR-509-3p, rno-miR-509-5p, rno-miR-511-3p, rno-miR-511-5p, rno-miR-5132-3p, rno-miR-5132-5p, rno-miR-532-3p, rno-miR-532-5p, rno-miR-539-3p, rno-miR-539-5p, rno-miR-540-3p, rno-miR-540-5p, rno-miR-541-3p, rno-miR-541-5p, rno-miR-542-3p, rno-miR-542-5p, rno-miR-

543-3p, rno-miR-543-5p, rno-miR-544-3p, rno-miR-544-5p, rno-miR-547-3p, rno-miR-547-5p, rno-miR-551b-3p, rno-miR-551b-5p, rno-miR-568, rno-miR-582-3p, rno-miR-582-5p, rno-miR-592, rno-miR-598-3p, rno-miR-598-5p, rno-miR-615, rno-miR-6215, rno-miR-6216, rno-miR-628, rno-miR-6314, rno-miR-6315, rno-miR-6316, rno-miR-6317, rno-miR-6318, rno-miR-6319, rno-miR-632, rno-miR-6320, rno-miR-6321, rno-miR-6322, rno-miR-6323, rno-miR-6324, rno-miR-6325, rno-miR-6326, rno-miR-6327, rno-miR-6328, rno-miR-6329, rno-miR-6330, rno-miR-6331, rno-miR-6332, rno-miR-6333, rno-miR-6334, rno-miR-652-3p, rno-miR-652-5p, rno-miR-653-3p, rno-miR-653-5p, rno-miR-664-1-5p, rno-miR-664-2-5p, rno-miR-664-3p, rno-miR-665, rno-miR-666-3p, rno-miR-666-5p, rno-miR-667-3p, rno-miR-667-5p, rno-miR-668, rno-miR-671, rno-miR-672-3p, rno-miR-672-5p, rno-miR-673-3p, rno-miR-673-5p, rno-miR-674-3p, rno-miR-674-5p, rno-miR-675-3p, rno-miR-675-5p, rno-miR-676, rno-miR-678, rno-miR-679, rno-miR-702-3p, rno-miR-702-5p, rno-miR-708-3p, rno-miR-708-5p, rno-miR-709, rno-miR-711, rno-miR-741-3p, rno-miR-741-5p, rno-miR-742-3p, rno-miR-742-5p, rno-miR-743a-3p, rno-miR-743a-5p, rno-miR-743b-3p, rno-miR-743b-5p, rno-miR-7578, rno-miR-758-3p, rno-miR-758-5p, rno-miR-759, rno-miR-760-3p, rno-miR-760-5p, rno-miR-761, rno-miR-762, rno-miR-764-3p, rno-miR-764-5p, rno-miR-770-3p, rno-miR-770-5p, rno-miR-7a-1-3p, rno-miR-7a-2-3p, rno-miR-7a-5p, rno-miR-7b, rno-miR-802-3p, rno-miR-802-5p, rno-miR-871-3p, rno-miR-871-5p, rno-miR-872-3p, rno-miR-872-5p, rno-miR-873-3p, rno-miR-873-5p, rno-miR-874-3p, rno-miR-874-5p, rno-miR-875, rno-miR-876, rno-miR-877, rno-miR-878, rno-miR-879-3p, rno-miR-879-5p, rno-miR-880-3p, rno-miR-880-5p, rno-miR-881-3p, rno-miR-881-5p, rno-miR-883-3p, rno-miR-883-5p, rno-miR-92a-1-5p, rno-miR-92a-2-5p, rno-miR-92a-3p, rno-miR-92b-3p, rno-miR-92b-5p, rno-miR-93-3p, rno-miR-93-5p, rno-miR-935, rno-miR-96-3p, rno-miR-96-5p, rno-miR-98-3p, rno-miR-98-5p, rno-miR-99a-3p, rno-miR-99a-5p, rno-miR-99b-3p, rno-miR-99b-5p, rno-miR-9a-3p, rno-miR-9a-5p, rno-miR-9b-3p, rno-miR-9b-5p, rrv-miR-rR1-1-3p, rrv-miR-rR1-1-5p, rrv-miR-rR1-2, rrv-miR-rR1-3, rrv-miR-rR1-4-3p, rrv-miR-rR1-4-5p, rrv-miR-rR1-5, rrv-miR-rR1-6-3p, rrv-miR-rR1-6-5p, rrv-miR-rR1-7-3p, rrv-miR-rR1-7-5p, sbi-miR1432, sbi-miR1435a, sbi-miR1435b, sbi-miR156a, sbi-miR156b, sbi-miR156c, sbi-miR156d, sbi-miR156e, sbi-miR156f, sbi-miR156g, sbi-miR156h, sbi-miR156i, sbi-miR159a, sbi-miR159b, sbi-miR160a, sbi-miR160b, sbi-miR160c, sbi-miR160d, sbi-miR160e, sbi-miR160f, sbi-miR162, sbi-miR164a, sbi-miR164b, sbi-miR164c, sbi-miR164d, sbi-miR164e, sbi-miR166a, sbi-miR166b, sbi-miR166c, sbi-miR166d, sbi-miR166e, sbi-miR166f, sbi-miR166g, sbi-miR166h, sbi-miR166i, sbi-miR166j, sbi-miR166k, sbi-miR167a, sbi-miR167b, sbi-miR167c, sbi-miR167d, sbi-miR167e, sbi-miR167f, sbi-

miR167g, sbi-miR167h, sbi-miR167i, sbi-miR168, sbi-miR169a, sbi-miR169b, sbi-miR169c, sbi-miR169d-3p, sbi-miR169d-5p, sbi-miR169e, sbi-miR169f, sbi-miR169g, sbi-miR169h, sbi-miR169i, sbi-miR169j, sbi-miR169k, sbi-miR169l, sbi-miR169m, sbi-miR169n, sbi-miR169o, sbi-miR169p, sbi-miR169q, sbi-miR171a, sbi-miR171b, sbi-miR171c, sbi-miR171d, sbi-miR171e, sbi-miR171f, sbi-miR171g, sbi-miR171h, sbi-miR171i, sbi-miR171j, sbi-miR171k, sbi-miR172a, sbi-miR172b, sbi-miR172c, sbi-miR172d, sbi-miR172e, sbi-miR172f, sbi-miR2118-3p, sbi-miR2118-5p, sbi-miR319a, sbi-miR319b, sbi-miR390, sbi-miR393a, sbi-miR393b, sbi-miR394a, sbi-miR394b, sbi-miR395a, sbi-miR395b, sbi-miR395c, sbi-miR395d, sbi-miR395e, sbi-miR395f, sbi-miR395g, sbi-miR395h, sbi-miR395i, sbi-miR395j, sbi-miR395k, sbi-miR395l, sbi-miR396a, sbi-miR396b, sbi-miR396c, sbi-miR396d, sbi-miR396e, sbi-miR397-3p, sbi-miR397-5p, sbi-miR398, sbi-miR399a, sbi-miR399b, sbi-miR399c, sbi-miR399d, sbi-miR399e, sbi-miR399f, sbi-miR399g, sbi-miR399h, sbi-miR399i, sbi-miR399j, sbi-miR399k, sbi-miR408, sbi-miR437a, sbi-miR437b, sbi-miR437c, sbi-miR437d, sbi-miR437e, sbi-miR437f, sbi-miR437g, sbi-miR437i, sbi-miR437j, sbi-miR437k, sbi-miR437l, sbi-miR437m, sbi-miR437n, sbi-miR437o, sbi-miR437p, sbi-miR437q, sbi-miR437r, sbi-miR437s, sbi-miR437t, sbi-miR437u, sbi-miR437v, sbi-miR437w, sbi-miR437x-3p, sbi-miR437x-5p, sbi-miR528, sbi-miR529, sbi-miR5381, sbi-miR5382, sbi-miR5383, sbi-miR5384, sbi-miR5385, sbi-miR5386, sbi-miR5387a, sbi-miR5387b, sbi-miR5388, sbi-miR5389, sbi-miR5564a, sbi-miR5564b, sbi-miR5564c-3p, sbi-miR5564c-5p, sbi-miR5565a, sbi-miR5565b, sbi-miR5565c, sbi-miR5565d, sbi-miR5565e, sbi-miR5565f, sbi-miR5565g-3p, sbi-miR5565g-5p, sbi-miR5566, sbi-miR5567, sbi-miR5568a, sbi-miR5568b-3p, sbi-miR5568b-5p, sbi-miR5568c-3p, sbi-miR5568c-5p, sbi-miR5568d-3p, sbi-miR5568d-5p, sbi-miR5568e-3p, sbi-miR5568e-5p, sbi-miR5568f-3p, sbi-miR5568f-5p, sbi-miR5568g-3p, sbi-miR5568g-5p, sbi-miR5569, sbi-miR5570, sbi-miR6217a-3p, sbi-miR6217a-5p, sbi-miR6217b-3p, sbi-miR6217b-5p, sbi-miR6218-3p, sbi-miR6218-5p, sbi-miR6219-3p, sbi-miR6219-5p, sbi-miR6220-3p, sbi-miR6220-5p, sbi-miR6221-3p, sbi-miR6221-5p, sbi-miR6222-3p, sbi-miR6222-5p, sbi-miR6223-3p, sbi-miR6223-5p, sbi-miR6224a-3p, sbi-miR6224a-5p, sbi-miR6224b-3p, sbi-miR6224b-5p, sbi-miR6224c-3p, sbi-miR6224c-5p, sbi-miR6225-3p, sbi-miR6225-5p, sbi-miR6226-3p, sbi-miR6226-5p, sbi-miR6227-3p, sbi-miR6227-5p, sbi-miR6228-3p, sbi-miR6228-5p, sbi-miR6229-3p, sbi-miR6229-5p, sbi-miR6230-3p, sbi-miR6230-5p, sbi-miR6231-3p, sbi-miR6231-5p, sbi-miR6232a-3p, sbi-miR6232a-5p, sbi-miR6232b-3p, sbi-miR6232b-5p, sbi-miR6233-3p, sbi-miR6233-5p, sbi-miR6234a-3p, sbi-miR6234a-5p, sbi-miR6234b-3p, sbi-miR6234b-5p, sbi-miR6235-3p, sbi-miR6235-5p, sbi-

miR821a, sbi-miR821b, sbi-miR821c, sbi-miR821d, sbi-miR821e, sbo-let-7a, sbo-let-7b, sbo-let-7e, sbo-let-7f, sbo-miR-100, sbo-miR-10a, sbo-miR-10b, sbo-miR-125a, sbo-miR-125b, sbo-miR-127, sbo-miR-143, sbo-miR-146b, sbo-miR-148a, sbo-miR-151, sbo-miR-16, sbo-miR-181a, sbo-miR-186, sbo-miR-191, sbo-miR-199, sbo-miR-21, sbo-miR-214, sbo-miR-22, sbo-miR-221, sbo-miR-24, sbo-miR-26a, sbo-miR-27a, sbo-miR-27b, sbo-miR-28, sbo-miR-29a, sbo-miR-423, sbo-miR-424, sbo-miR-486a, sbo-miR-486b, sbo-miR-6529, sbo-miR-92a, sbo-miR-99a, sci-miR-7642-3p, sci-miR-7642-5p, seu-miR11021, seu-miR11022, seu-miR11023, seu-miR11024, seu-miR11025, seu-miR11026, seu-miR11027, seu-miR11028, seu-miR11029, seu-miR11030a, seu-miR11030b, seu-miR11031, seu-miR11032, seu-miR11033, seu-miR11034, seu-miR11035, seu-miR11036, seu-miR11037, seu-miR11038, seu-miR11039, seu-miR11040, seu-miR11041, seu-miR11042, seu-miR11043, seu-miR11044, seu-miR11045, seu-miR11046, seu-miR11047, seu-miR11048, seu-miR11049, seu-miR319, sfr-miR-10-3p, sfr-miR-10-5p, sfr-miR-10451-3p, sfr-miR-10451-5p, sfr-miR-10452-3p, sfr-miR-10452-5p, sfr-miR-10453-3p, sfr-miR-10453-5p, sfr-miR-10454a-2-5p, sfr-miR-10454a-3p, sfr-miR-10454a-5p, sfr-miR-10454b-3p, sfr-miR-10454b-5p, sfr-miR-10454c-3p, sfr-miR-10454c-5p, sfr-miR-10454d-3p, sfr-miR-10454d-5p, sfr-miR-10454e-3p, sfr-miR-10454e-5p, sfr-miR-10454f-3p, sfr-miR-10454f-5p, sfr-miR-10454g-3p, sfr-miR-10454g-5p, sfr-miR-10454h-3p, sfr-miR-10454h-5p, sfr-miR-10455-3p, sfr-miR-10455-5p, sfr-miR-10456-3p, sfr-miR-10456-5p, sfr-miR-10457-3p, sfr-miR-10457-5p, sfr-miR-10458-3p, sfr-miR-10458-5p, sfr-miR-10459-3p, sfr-miR-10459-5p, sfr-miR-10460-3p, sfr-miR-10460-5p, sfr-miR-10461a-3p, sfr-miR-10461a-5p, sfr-miR-10461b-3p, sfr-miR-10461b-5p, sfr-miR-10462-3p, sfr-miR-10462-5p, sfr-miR-10463-3p, sfr-miR-10463-5p, sfr-miR-10464-3p, sfr-miR-10464-5p, sfr-miR-10465-2-3p, sfr-miR-10465-3p, sfr-miR-10465-5p, sfr-miR-10466-3p, sfr-miR-10466-5p, sfr-miR-10467-3p, sfr-miR-10467-5p, sfr-miR-10468-3p, sfr-miR-10468-5p, sfr-miR-10469-3p, sfr-miR-10469-5p, sfr-miR-10470-3p, sfr-miR-10470-5p, sfr-miR-10471-3p, sfr-miR-10471-5p, sfr-miR-10472-3p, sfr-miR-10472-5p, sfr-miR-10473-3p, sfr-miR-10473-5p, sfr-miR-10474-3p, sfr-miR-10474-5p, sfr-miR-10475-3p, sfr-miR-10475-5p, sfr-miR-10476-3p, sfr-miR-10476-5p, sfr-miR-10477-3p, sfr-miR-10477-5p, sfr-miR-10478-3p, sfr-miR-10478-5p, sfr-miR-10479-3p, sfr-miR-10479-5p, sfr-miR-10480-3p, sfr-miR-10480-5p, sfr-miR-10481-3p, sfr-miR-10481-5p, sfr-miR-10482-3p, sfr-miR-10482-5p, sfr-miR-10483-2-3p, sfr-miR-10483-3p, sfr-miR-10483-5p, sfr-miR-10484-??, sfr-miR-10484-3p, sfr-miR-10485-3p, sfr-miR-10485-5p, sfr-miR-10486-3p, sfr-miR-10486-5p, sfr-miR-10487-3p, sfr-miR-10487-5p, sfr-miR-10488-3p, sfr-miR-10488-5p, sfr-miR-10489-3p, sfr-miR-10489-5p, sfr-miR-10490-3p, sfr-miR-10490-5p,

sfr-miR-10491-3p, sfr-miR-10491-5p, sfr-miR-10492a-3p, sfr-miR-10492a-5p, sfr-miR-10492b-3p, sfr-miR-10492b-5p, sfr-miR-10492c-3p, sfr-miR-10492c-5p, sfr-miR-10493-3p, sfr-miR-10493-5p, sfr-miR-10494-3p, sfr-miR-10494-5p, sfr-miR-10495-3-3p, sfr-miR-10495-3p, sfr-miR-10495-5p, sfr-miR-10496-3p, sfr-miR-10496-5p, sfr-miR-10497-3p, sfr-miR-10497-5p, sfr-miR-10498-3p, sfr-miR-10498-5p, sfr-miR-10499a-3p, sfr-miR-10499a-4-5p, sfr-miR-10499a-5p, sfr-miR-10499b-2-5p, sfr-miR-10499b-3p, sfr-miR-10499b-5p, sfr-miR-10500-3p, sfr-miR-10500-5p, sfr-miR-10501-3p, sfr-miR-10501-5p, sfr-miR-10502-3p, sfr-miR-10502-5p, sfr-miR-10503-3p, sfr-miR-10503-5p, sfr-miR-10504-3p, sfr-miR-10504-5p, sfr-miR-10505-3p, sfr-miR-10505-5p, sfr-miR-10506-3p, sfr-miR-10506-5p, sfr-miR-10507-3p, sfr-miR-10507-5p, sfr-miR-10508a-2-3p, sfr-miR-10508a-3p, sfr-miR-10508a-5p, sfr-miR-10508b-3p, sfr-miR-10508b-5p, sfr-miR-10509-3p, sfr-miR-10509-5p, sfr-miR-10510-3p, sfr-miR-10510-5p, sfr-miR-10511-3p, sfr-miR-10511-5p, sfr-miR-10512-3p, sfr-miR-10512-5p, sfr-miR-10513-3p, sfr-miR-10513-5p, sfr-miR-10514-3p, sfr-miR-10514-5p, sfr-miR-11-3p, sfr-miR-11-5p, sfr-miR-13a-3p, sfr-miR-13a-5p, sfr-miR-13b-3p, sfr-miR-13b-5p, sfr-miR-14-3p, sfr-miR-14-5p, sfr-miR-210-3p, sfr-miR-210-5p, sfr-miR-263b-3p, sfr-miR-263b-5p, sfr-miR-274-3p, sfr-miR-274-5p, sfr-miR-2755-3p, sfr-miR-2755-5p, sfr-miR-2756-3p, sfr-miR-2756-5p, sfr-miR-2765-3p, sfr-miR-2765-5p, sfr-miR-2766-3p, sfr-miR-2766-5p, sfr-miR-277-3p, sfr-miR-277-5p, sfr-miR-279a-3p, sfr-miR-279a-5p, sfr-miR-279b-3p, sfr-miR-279b-5p, sfr-miR-279c-3p, sfr-miR-279c-5p, sfr-miR-281-3p, sfr-miR-281-5p, sfr-miR-285-3p, sfr-miR-285-5p, sfr-miR-2a-3p, sfr-miR-2a-5p, sfr-miR-2b-3p, sfr-miR-2b-5p, sfr-miR-2c-3p, sfr-miR-2c-5p, sfr-miR-307-3p, sfr-miR-307-5p, sfr-miR-316-3p, sfr-miR-316-5p, sfr-miR-317-3p, sfr-miR-317-5p, sfr-miR-3286-3p, sfr-miR-3286-5p, sfr-miR-34-3p, sfr-miR-34-5p, sfr-miR-375-3p, sfr-miR-375-5p, sfr-miR-6094-3p, sfr-miR-6094-5p, sfr-miR-7-3p, sfr-miR-7-5p, sfr-miR-92a-3p, sfr-miR-92a-5p, sfr-miR-932-3p, sfr-miR-932-5p, sfv-miR-S1-3p, sfv-miR-S2-3p, sfv-miR-S2-5p, sfv-miR-S3-3p, sfv-miR-S3-5p, sfv-miR-S4-3p, sfv-miR-S4-5p, sfv-miR-S5-3p, sfv-miR-S5-5p, sfv-miR-S6-3p, sfv-miR-S6-5p, sfv-miR-S7-3p, sfv-miR-S7-5p, sha-let-7a, sha-let-7g, sha-let-7i, sha-miR-100, sha-miR-101, sha-miR-10a, sha-miR-10b, sha-miR-125a, sha-miR-125b, sha-miR-126, sha-miR-128, sha-miR-129, sha-miR-130a, sha-miR-130b, sha-miR-1329, sha-miR-133a, sha-miR-135a, sha-miR-138, sha-miR-139, sha-miR-140, sha-miR-141, sha-miR-142, sha-miR-150, sha-miR-1540, sha-miR-1546, sha-miR-1549, sha-miR-181a-3p, sha-miR-181a-5p, sha-miR-190, sha-miR-193, sha-miR-199a, sha-miR-19b, sha-miR-200a, sha-miR-200b, sha-miR-200c, sha-miR-202, sha-miR-204, sha-miR-205, sha-miR-21, sha-miR-216a, sha-miR-216b, sha-miR-221, sha-miR-222, sha-miR-23a, sha-miR-23b, sha-miR-24, sha-miR-25, sha-miR-26a, sha-

miR-27b, sha-miR-30c, sha-miR-30e, sha-miR-338, sha-miR-340, sha-miR-352, sha-miR-363, sha-miR-383, sha-miR-454, sha-miR-497, sha-miR-7, sha-miR-9, sha-miR-92a, sha-miR-93, sja-bantam, sja-let-7, sja-miR-1, sja-miR-10-3p, sja-miR-10-5p, sja-miR-124-3p, sja-miR-124-5p, sja-miR-125a, sja-miR-125b, sja-miR-133, sja-miR-190-3p, sja-miR-190-5p, sja-miR-2162-3p, sja-miR-2162-5p, sja-miR-219-3p, sja-miR-219-5p, sja-miR-277, sja-miR-2a-3p, sja-miR-2a-5p, sja-miR-2b-3p, sja-miR-2b-5p, sja-miR-2c-3p, sja-miR-2c-5p, sja-miR-2d-3p, sja-miR-2d-5p, sja-miR-2e-3p, sja-miR-2e-5p, sja-miR-307, sja-miR-31-3p, sja-miR-31-5p, sja-miR-310, sja-miR-3479-3p, sja-miR-3479-5p, sja-miR-3480-3p, sja-miR-3480-5p, sja-miR-3481-3p, sja-miR-3481-5p, sja-miR-3482-3p, sja-miR-3482-5p, sja-miR-3483-3p, sja-miR-3483-5p, sja-miR-3484-3p, sja-miR-3484-5p, sja-miR-3485-3p, sja-miR-3485-5p, sja-miR-3486-3p, sja-miR-3486-5p, sja-miR-3487, sja-miR-3488, sja-miR-3489, sja-miR-3490, sja-miR-3491, sja-miR-3492, sja-miR-3493, sja-miR-3494, sja-miR-3495, sja-miR-3496, sja-miR-3497, sja-miR-3498, sja-miR-3499, sja-miR-3500, sja-miR-3501, sja-miR-3502, sja-miR-3503, sja-miR-3504, sja-miR-3505, sja-miR-3506, sja-miR-3507, sja-miR-36-3p, sja-miR-36-5p, sja-miR-61, sja-miR-7-3p, sja-miR-7-5p, sja-miR-71a, sja-miR-71b-3p, sja-miR-71b-5p, sja-miR-8-3p, sja-miR-8-5p, sja-miR-8185, sko-let-7, sko-miR-1-3p, sko-miR-1-5p, sko-miR-10, sko-miR-100, sko-miR-124-3p, sko-miR-124-5p, sko-miR-125a, sko-miR-133, sko-miR-137, sko-miR-153, sko-miR-182, sko-miR-183, sko-miR-184-3p, sko-miR-184-5p, sko-miR-190, sko-miR-193a-3p, sko-miR-193a-5p, sko-miR-193b, sko-miR-200, sko-miR-2001, sko-miR-2006-3p, sko-miR-2006-5p, sko-miR-2007-3p, sko-miR-2007-5p, sko-miR-2008, sko-miR-2011, sko-miR-2012-3p, sko-miR-2012-5p, sko-miR-2013, sko-miR-210-3p, sko-miR-210-5p, sko-miR-219, sko-miR-242, sko-miR-252a, sko-miR-252b, sko-miR-278, sko-miR-281, sko-miR-29a, sko-miR-29b-3p, sko-miR-29b-5p, sko-miR-31, sko-miR-315, sko-miR-33-3p, sko-miR-34-3p, sko-miR-34-5p, sko-miR-365-3p, sko-miR-365-5p, sko-miR-375, sko-miR-4817-5p, sko-miR-4818a, sko-miR-4818b-3p, sko-miR-4818b-5p, sko-miR-4818c, sko-miR-4818d, sko-miR-4818e-3p, sko-miR-4818e-5p, sko-miR-4818f, sko-miR-4818g-3p, sko-miR-4818g-5p, sko-miR-4819-3p, sko-miR-4819-5p, sko-miR-4820, sko-miR-4821, sko-miR-4822-3p, sko-miR-4822-5p, sko-miR-4823-3p, sko-miR-4823-5p, sko-miR-4824, sko-miR-4825-3p, sko-miR-4825-5p, sko-miR-4826-3p, sko-miR-4826-5p, sko-miR-4827a, sko-miR-4827b, sko-miR-4828a, sko-miR-4828b, sko-miR-4829a, sko-miR-4829b, sko-miR-4829c, sko-miR-4830a, sko-miR-4830b-3p, sko-miR-4830b-5p, sko-miR-4830c, sko-miR-4830d-3p, sko-miR-4830d-5p, sko-miR-4831, sko-miR-4832, sko-miR-4833, sko-miR-4834, sko-miR-4835-3p, sko-miR-4835-5p, sko-miR-4836-3p, sko-miR-4836-5p, sko-miR-4837, sko-miR-4838, sko-miR-4839, sko-miR-4840, sko-

miR-4841, sko-miR-4842, sko-miR-4843, sko-miR-4844, sko-miR-4845, sko-miR-4846, sko-miR-7-3p, sko-miR-7-5p, sko-miR-71, sko-miR-9-3p, sko-miR-9-5p, sko-miR-92a, sko-miR-92b, sko-miR-92c, sko-miR-96-3p, sko-miR-96-5p, sla-miR-100, sla-miR-101, sla-miR-105, sla-miR-106a, sla-miR-106b, sla-miR-10a, sla-miR-125b, sla-miR-127, sla-miR-128, sla-miR-133a, sla-miR-147, sla-miR-15a, sla-miR-16, sla-miR-17-3p, sla-miR-17-5p, sla-miR-18, sla-miR-181a, sla-miR-183, sla-miR-198, sla-miR-199a, sla-miR-19a, sla-miR-19b, sla-miR-20, sla-miR-204, sla-miR-214, sla-miR-218, sla-miR-22, sla-miR-223, sla-miR-23a, sla-miR-27a, sla-miR-28, sla-miR-29a, sla-miR-29b, sla-miR-32, sla-miR-34a, sla-miR-7, sla-miR-92, sla-miR-93, sla-miR-95, sla-miR-96, sly-miR10528, sly-miR10529, sly-miR10530, sly-miR10531, sly-miR10532, sly-miR10533, sly-miR10534, sly-miR10535a, sly-miR10535b, sly-miR10536, sly-miR10537, sly-miR10538, sly-miR10539, sly-miR10540, sly-miR10541, sly-miR10542, sly-miR156a, sly-miR156b, sly-miR156c, sly-miR156d-3p, sly-miR156d-5p, sly-miR156e-3p, sly-miR156e-5p, sly-miR159, sly-miR159b, sly-miR160a, sly-miR162, sly-miR164a-3p, sly-miR164a-5p, sly-miR164b-3p, sly-miR164b-5p, sly-miR166a, sly-miR166b, sly-miR166c-3p, sly-miR166c-5p, sly-miR167a, sly-miR167b-3p, sly-miR167b-5p, sly-miR168a-3p, sly-miR168a-5p, sly-miR168b-3p, sly-miR168b-5p, sly-miR169a, sly-miR169b, sly-miR169c, sly-miR169d, sly-miR169e-3p, sly-miR169e-5p, sly-miR169f, sly-miR171a, sly-miR171b-3p, sly-miR171b-5p, sly-miR171c, sly-miR171d, sly-miR171e, sly-miR171f, sly-miR172a, sly-miR172b, sly-miR172c, sly-miR172d, sly-miR1916, sly-miR1917, sly-miR1918, sly-miR1919a, sly-miR1919b, sly-miR1919c-3p, sly-miR1919c-5p, sly-miR319a, sly-miR319b, sly-miR319c-3p, sly-miR319c-5p, sly-miR319d, sly-miR390a-3p, sly-miR390a-5p, sly-miR390b-3p, sly-miR390b-5p, sly-miR391, sly-miR393, sly-miR394-3p, sly-miR394-5p, sly-miR395a, sly-miR395b, sly-miR396a-3p, sly-miR396a-5p, sly-miR396b, sly-miR397-3p, sly-miR397-5p, sly-miR398a, sly-miR399, sly-miR399b, sly-miR403-3p, sly-miR403-5p, sly-miR408, sly-miR477-3p, sly-miR477-5p, sly-miR482a, sly-miR482b, sly-miR482c, sly-miR482d-3p, sly-miR482d-5p, sly-miR482e-3p, sly-miR482e-5p, sly-miR530, sly-miR5300, sly-miR5302a, sly-miR5302b-3p, sly-miR5302b-5p, sly-miR5303, sly-miR5304, sly-miR6022, sly-miR6023, sly-miR6024, sly-miR6025, sly-miR6026, sly-miR6027-3p, sly-miR6027-5p, sly-miR7981a, sly-miR7981b, sly-miR7981c, sly-miR7981d, sly-miR7981e, sly-miR7981f, sly-miR827, sly-miR9469-3p, sly-miR9469-5p, sly-miR9470-3p, sly-miR9470-5p, sly-miR9471a-3p, sly-miR9471a-5p, sly-miR9471b-3p, sly-miR9471b-5p, sly-miR9472-3p, sly-miR9472-5p, sly-miR9473-3p, sly-miR9473-5p, sly-miR9474-3p, sly-miR9474-5p, sly-miR9475-3p, sly-miR9475-5p, sly-miR9476-3p, sly-miR9476-5p, sly-miR9477-3p, sly-miR9477-5p, sly-miR9478-3p, sly-

miR9478-5p, sly-miR9479-3p, sly-miR9479-5p, sma-bantam-3p, sma-bantam-5p, sma-let-7-3p, sma-let-7-5p, sma-miR-10-3p, sma-miR-10-5p, sma-miR-124a-3p, sma-miR-124a-5p, sma-miR-124b-3p, sma-miR-124b-5p, sma-miR-125a-3p, sma-miR-125a-5p, sma-miR-125b, sma-miR-125c-3p, sma-miR-125c-5p, sma-miR-190-3p, sma-miR-190-5p, sma-miR-1a-5p, sma-miR-1b-3p, sma-miR-1b-5p, sma-miR-2162-3p, sma-miR-2162-5p, sma-miR-219-3p, sma-miR-219-5p, sma-miR-281-3p, sma-miR-281-5p, sma-miR-2a-3p, sma-miR-2a-5p, sma-miR-2b-3p, sma-miR-2b-5p, sma-miR-2c-3p, sma-miR-2c-5p, sma-miR-2d-3p, sma-miR-2d-5p, sma-miR-2e-3p, sma-miR-2e-5p, sma-miR-2f-3p, sma-miR-31-3p, sma-miR-31-5p, sma-miR-3479-3p, sma-miR-3492, sma-miR-36a-3p, sma-miR-36a-5p, sma-miR-36b-3p, sma-miR-36b-5p, sma-miR-61-3p, sma-miR-61-5p, sma-miR-7-3p, sma-miR-7-5p, sma-miR-71a-3p, sma-miR-71a-5p, sma-miR-71b-3p, sma-miR-71b-5p, sma-miR-745-3p, sma-miR-745-5p, sma-miR-755-3p, sma-miR-755-5p, sma-miR-8-3p, sma-miR-8-5p, sma-miR-8403-3p, sma-miR-8403-5p, sma-miR-8404-3p, sma-miR-8404-5p, sma-miR-8405-3p, sma-miR-8405-5p, sma-miR-8406-3p, sma-miR-8406-5p, sma-miR-8407-3p, sma-miR-8407-5p, sma-miR-8408-3p, sma-miR-8408-5p, sma-miR-8409-3p, sma-miR-8409-5p, sma-miR-8410-3p, sma-miR-8410-5p, sma-miR-8411-3p, sma-miR-8411-5p, sma-miR-8412-3p, sma-miR-8412-5p, sma-miR-8413-3p, sma-miR-8413-5p, sma-miR-8414-3p, sma-miR-8414-5p, sma-miR-8415-3p, sma-miR-8415-5p, sma-miR-8416-3p, sma-miR-8416-5p, sma-miR-8417-3p, sma-miR-8417-5p, sma-miR-8418-3p, sma-miR-8418-5p, sma-miR-8419-3p, sma-miR-8419-5p, sma-miR-8420-3p, sma-miR-8420-5p, sma-miR-8421-3p, sma-miR-8421-5p, sma-miR-8422-3p, sma-miR-8422-5p, sma-miR-8423-3p, sma-miR-8423-5p, sma-miR-8424-3p, sma-miR-8424-5p, sma-miR-8425-3p, sma-miR-8425-5p, sma-miR-8426-3p, sma-miR-8426-5p, sma-miR-8427-3p, sma-miR-8427-5p, sma-miR-8428-3p, sma-miR-8428-5p, sma-miR-8429-3p, sma-miR-8429-5p, sma-miR-8430-3p, sma-miR-8430-5p, sma-miR-8431-3p, sma-miR-8431-5p, sma-miR-8432-3p, sma-miR-8432-5p, sma-miR-8433-3p, sma-miR-8433-5p, sma-miR-8434-3p, sma-miR-8434-5p, sma-miR-8435-3p, sma-miR-8435-5p, sma-miR-8436-3p, sma-miR-8436-5p, sma-miR-8437-3p, sma-miR-8437-5p, sma-miR-8438-3p, sma-miR-8438-5p, sma-miR-8439-3p, sma-miR-8439-5p, sma-miR-8440-3p, sma-miR-8440-5p, sma-miR-8441-3p, sma-miR-8441-5p, sma-miR-8442-3p, sma-miR-8442-5p, sma-miR-8443-3p, sma-miR-8443-5p, sma-miR-8444-3p, sma-miR-8444-5p, sma-miR-8445-3p, sma-miR-8445-5p, sma-miR-8446-3p, sma-miR-8446-5p, sma-miR-8447-3p, sma-miR-8447-5p, sma-miR-8448-3p, sma-miR-8448-5p, sma-miR-8449-3p, sma-miR-8449-5p, sma-miR-8450-3p, sma-miR-8450-5p, sma-miR-8451-3p, sma-miR-8451-5p, sma-miR-8452-3p, sma-miR-8452-5p, sma-miR-8453-3p, sma-miR-8453-5p, sma-miR-8454-3p, sma-miR-

8454-5p, sma-miR-8455-3p, sma-miR-8455-5p, sma-miR-8456-3p, sma-miR-8456-5p, sma-miR-8457-3p, sma-miR-8457-5p, sma-miR-8458-3p, sma-miR-8458-5p, sma-miR-8459-3p, sma-miR-8459-5p, sma-miR-8460-3p, sma-miR-8460-5p, sma-miR-8461-3p, sma-miR-8461-5p, sma-miR-8462-3p, sma-miR-8462-5p, sma-miR-8463-3p, sma-miR-8463-5p, sma-miR-8464-3p, sma-miR-8464-5p, sma-miR-8465-3p, sma-miR-8465-5p, sma-miR-8466-3p, sma-miR-8466-5p, sma-miR-8467-3p, sma-miR-8467-5p, sma-miR-8468-3p, sma-miR-8468-5p, sma-miR-8469-3p, sma-miR-8469-5p, sma-miR-8470-3p, sma-miR-8470-5p, sma-miR-8471-3p, sma-miR-8471-5p, sma-miR-8472-3p, sma-miR-8472-5p, sma-miR-8473-3p, sma-miR-8473-5p, sma-miR-8474-3p, sma-miR-8474-5p, sma-miR-8475-3p, sma-miR-8475-5p, sma-miR-8476-3p, sma-miR-8476-5p, sma-miR-8477-3p, sma-miR-8477-5p, sma-miR-8478-3p, sma-miR-8478-5p, sma-miR-8479-3p, sma-miR-8479-5p, sma-miR-8480-3p, sma-miR-8480-5p, sma-miR-8481-3p, sma-miR-8481-5p, sma-miR-8482-3p, sma-miR-8482-5p, sma-miR-8483-3p, sma-miR-8483-5p, sma-miR-8484-3p, sma-miR-8484-5p, sma-miR-96-3p, sma-miR-96-5p, smc-miR-12455-2-3p, smc-miR-12455-3p, smc-miR-12455-5p, smc-miR-12456-3p, smc-miR-12456-5p, smc-miR-12457-3p, smc-miR-12457-5p, smc-miR-12458-3p, smc-miR-12458-5p, smc-miR-12459-3p, smc-miR-12459-5p, smc-miR-12460-3p, smc-miR-12460-5p, smc-miR-12461-3p, smc-miR-12461-5p, sme-bantam-a, sme-bantam-b-3p, sme-bantam-b-5p, sme-bantam-c-3p, sme-bantam-c-5p, sme-let-7a-3p, sme-let-7a-5p, sme-let-7b-3p, sme-let-7b-5p, sme-let-7c-3p, sme-let-7c-5p, sme-let-7d, sme-lin-4-3p, sme-lin-4-5p, sme-miR-10a-3p, sme-miR-10a-5p, sme-miR-10b-3p, sme-miR-10b-5p, sme-miR-1175-3p, sme-miR-1175-5p, sme-miR-12-3p, sme-miR-12-5p, sme-miR-124a-3p, sme-miR-124a-5p, sme-miR-124b-3p, sme-miR-124b-5p, sme-miR-124c-1-5p, sme-miR-124c-2-5p, sme-miR-124c-3p, sme-miR-124d-3p, sme-miR-124d-5p, sme-miR-124e-3p, sme-miR-124e-5p, sme-miR-125a-3p, sme-miR-125a-5p, sme-miR-125b-3p, sme-miR-125b-5p, sme-miR-13-3p, sme-miR-13-5p, sme-miR-133a-3p, sme-miR-133a-5p, sme-miR-133b-3p, sme-miR-133b-5p, sme-miR-184-3p, sme-miR-184-5p, sme-miR-190a-3p, sme-miR-190a-5p, sme-miR-190b-3p, sme-miR-190b-5p, sme-miR-1992-3p, sme-miR-1992-5p, sme-miR-1993-3p, sme-miR-1993-5p, sme-miR-1a-3p, sme-miR-1a-5p, sme-miR-1b-3p, sme-miR-1b-5p, sme-miR-1c-3p, sme-miR-1c-5p, sme-miR-2147a, sme-miR-2147b, sme-miR-2147c, sme-miR-2147d-3p, sme-miR-2147d-5p, sme-miR-2148-3p, sme-miR-2148-5p, sme-miR-2149-3p, sme-miR-2149-5p, sme-miR-2150, sme-miR-2151-3p, sme-miR-2151-5p, sme-miR-2152, sme-miR-2153, sme-miR-2154-3p, sme-miR-2154-5p, sme-miR-2155, sme-miR-2156a-3p, sme-miR-2156a-5p, sme-miR-2156b-3p, sme-miR-2156b-5p, sme-miR-2157-3p, sme-miR-2157-5p, sme-miR-2158-3p, sme-miR-2158-5p, sme-miR-2159-3p, sme-miR-2159-5p, sme-

miR-216-3p, sme-miR-216-5p, sme-miR-2160-1-3p, sme-miR-2160-2-3p, sme-miR-2160-5p, sme-miR-2161-3p, sme-miR-2161-5p, sme-miR-2162-3p, sme-miR-2162-5p, sme-miR-2163-3p, sme-miR-2163-5p, sme-miR-2164-3p, sme-miR-2164-5p, sme-miR-2165-3p, sme-miR-2165-5p, sme-miR-2166, sme-miR-2167, sme-miR-2168-3p, sme-miR-2168-5p, sme-miR-2169-3p, sme-miR-2169-5p, sme-miR-2170, sme-miR-2171, sme-miR-2172-3p, sme-miR-2172-5p, sme-miR-2173-3p, sme-miR-2173-5p, sme-miR-2174, sme-miR-2175, sme-miR-2176, sme-miR-2177-3p, sme-miR-2177-5p, sme-miR-2178, sme-miR-2179-3p, sme-miR-2179-5p, sme-miR-2180, sme-miR-2181, sme-miR-219-3p, sme-miR-219-5p, sme-miR-2200-3p, sme-miR-2200-5p, sme-miR-2201-3p, sme-miR-2201-5p, sme-miR-2202-3p, sme-miR-2202-5p, sme-miR-2203-3p, sme-miR-2203-5p, sme-miR-2204-3p, sme-miR-2204-5p, sme-miR-2205-3p, sme-miR-2205-5p, sme-miR-2206-3p, sme-miR-2206-5p, sme-miR-277a-3p, sme-miR-277a-5p, sme-miR-277b-3p, sme-miR-277b-5p, sme-miR-277c-3p, sme-miR-277c-5p, sme-miR-277d-3p, sme-miR-277d-5p, sme-miR-278-3p, sme-miR-278-5p, sme-miR-281-3p, sme-miR-281-5p, sme-miR-2a-1-5p, sme-miR-2a-2-5p, sme-miR-2a-3p, sme-miR-2b-3p, sme-miR-2b-5p, sme-miR-2c-3p, sme-miR-2c-5p, sme-miR-2d-3p, sme-miR-2d-5p, sme-miR-2e-3p, sme-miR-2e-5p, sme-miR-2f-3p, sme-miR-2f-5p, sme-miR-315-3p, sme-miR-315-5p, sme-miR-31a-3p, sme-miR-31a-5p, sme-miR-31b-1-3p, sme-miR-31b-3p, sme-miR-31b-5p, sme-miR-36a-3p, sme-miR-36a-5p, sme-miR-36b-3p, sme-miR-36b-5p, sme-miR-36c-3p, sme-miR-36c-5p, sme-miR-61a-3p, sme-miR-61a-5p, sme-miR-61b-3p, sme-miR-61b-5p, sme-miR-67-3p, sme-miR-67-5p, sme-miR-71a-1-3p, sme-miR-71a-2-3p, sme-miR-71a-5p, sme-miR-71b-3p, sme-miR-71b-5p, sme-miR-71c-3p, sme-miR-71c-5p, sme-miR-745-3p, sme-miR-745-5p, sme-miR-746-3p, sme-miR-746-5p, sme-miR-747-3p, sme-miR-747-5p, sme-miR-748-3p, sme-miR-748-5p, sme-miR-749, sme-miR-750-3p, sme-miR-750-5p, sme-miR-751, sme-miR-752-3p, sme-miR-752-5p, sme-miR-753a, sme-miR-753b-3p, sme-miR-753b-5p, sme-miR-753c, sme-miR-753d-3p, sme-miR-753d-5p, sme-miR-753e-3p, sme-miR-753e-5p, sme-miR-754a, sme-miR-754b-3p, sme-miR-754b-5p, sme-miR-754c-1-3p, sme-miR-754c-2-3p, sme-miR-754c-5p, sme-miR-754d, sme-miR-755-3p, sme-miR-755-5p, sme-miR-756-3p, sme-miR-756-5p, sme-miR-76-3p, sme-miR-76-5p, sme-miR-79-3p, sme-miR-79-5p, sme-miR-7a-3p, sme-miR-7a-5p, sme-miR-7b-3p, sme-miR-7b-5p, sme-miR-7c-3p, sme-miR-7c-5p, sme-miR-7d-3p, sme-miR-7d-5p, sme-miR-87a-3p, sme-miR-87a-5p, sme-miR-87b-3p, sme-miR-87b-5p, sme-miR-87c-3p, sme-miR-87c-5p, sme-miR-87d-3p, sme-miR-87d-5p, sme-miR-8a-3p, sme-miR-8a-5p, sme-miR-8b-3p, sme-miR-8b-5p, sme-miR-92-3p, sme-miR-92-5p, sme-miR-96a-3p, sme-miR-96a-5p, sme-miR-96b-3p, sme-miR-96b-5p, sme-miR-9a-3p, sme-miR-9a-5p, sme-miR-9b-3p, sme-

miR-9b-5p, smi-miR12112, smo-miR1080, smo-miR1081, smo-miR1082a, smo-miR1082b, smo-miR1083, smo-miR1084, smo-miR1085-3p, smo-miR1085-5p, smo-miR1086, smo-miR1087, smo-miR1088-3p, smo-miR1088-5p, smo-miR1089, smo-miR1090, smo-miR1091, smo-miR1092, smo-miR1093, smo-miR1094a, smo-miR1094b, smo-miR1094c, smo-miR1095a, smo-miR1095b, smo-miR1096, smo-miR1097, smo-miR1098, smo-miR1099, smo-miR1100, smo-miR1101-3p, smo-miR1101-5p, smo-miR1102, smo-miR1103-3p, smo-miR1103-5p, smo-miR1104, smo-miR1105, smo-miR1106, smo-miR1107, smo-miR1108, smo-miR1109, smo-miR1110, smo-miR1111, smo-miR1112-3p, smo-miR1112-5p, smo-miR1113, smo-miR1114, smo-miR1115-3p, smo-miR1115-5p, smo-miR156a, smo-miR156b, smo-miR156c, smo-miR156d, smo-miR159, smo-miR160a, smo-miR160b, smo-miR166a, smo-miR166b, smo-miR166c, smo-miR171a, smo-miR171b, smo-miR171c, smo-miR171d, smo-miR319, smo-miR396, smo-miR408, smo-miR536, smr-miR-282, smr-miR-3930-3p, smr-miR-3930-5p, smr-miR-965, sof-miR156, sof-miR159a, sof-miR159b, sof-miR159c, sof-miR159d, sof-miR159e, sof-miR167a, sof-miR167b, sof-miR168a, sof-miR168b, sof-miR396, sof-miR408a, sof-miR408b, sof-miR408c, sof-miR408d, sof-miR408e, spu-let-7, spu-miR-1, spu-miR-10, spu-miR-124, spu-miR-125-3p, spu-miR-125-5p, spu-miR-133, spu-miR-137, spu-miR-153-3p, spu-miR-153-5p, spu-miR-182, spu-miR-183, spu-miR-184, spu-miR-200-3p, spu-miR-200-5p, spu-miR-2001, spu-miR-2002-3p, spu-miR-2002-5p, spu-miR-2003-3p, spu-miR-2003-5p, spu-miR-2004, spu-miR-2005, spu-miR-2006, spu-miR-2007, spu-miR-2008, spu-miR-2009, spu-miR-2010, spu-miR-2011, spu-miR-2012, spu-miR-2013, spu-miR-210, spu-miR-219-3p, spu-miR-219-5p, spu-miR-22, spu-miR-242, spu-miR-252a, spu-miR-252b, spu-miR-278-3p, spu-miR-278-5p, spu-miR-29a, spu-miR-29b, spu-miR-31, spu-miR-33, spu-miR-34, spu-miR-375, spu-miR-4847, spu-miR-4848a, spu-miR-4848b, spu-miR-4849, spu-miR-4850, spu-miR-4851, spu-miR-4852, spu-miR-4853, spu-miR-4854, spu-miR-4855, spu-miR-5992, spu-miR-5993, spu-miR-5994, spu-miR-7, spu-miR-71, spu-miR-9-3p, spu-miR-9-5p, spu-miR-92a, spu-miR-92b-3p, spu-miR-92b-5p, spu-miR-92c, spu-miR-92d, spu-miR-92e, spu-miR-96, spu-miR-981, ssa-let-7a-3-3p, ssa-let-7a-3p, ssa-let-7a-4-3p, ssa-let-7a-5-3p, ssa-let-7a-5p, ssa-let-7b-3p, ssa-let-7b-5p, ssa-let-7c-2-3p, ssa-let-7c-3p, ssa-let-7c-5p, ssa-let-7d-3p, ssa-let-7d-5p, ssa-let-7e-3p, ssa-let-7e-5p, ssa-let-7f-3p, ssa-let-7f-5p, ssa-let-7g-3p, ssa-let-7g-5p, ssa-let-7h-3p, ssa-let-7h-5p, ssa-let-7i-2-3p, ssa-let-7i-3p, ssa-let-7i-5p, ssa-let-7j-3p, ssa-let-7j-5p, ssa-miR-1-3-5p, ssa-miR-1-3p, ssa-miR-1-4-5p, ssa-miR-1-5p, ssa-miR-100a-2-3p, ssa-miR-100a-3p, ssa-miR-100a-5p, ssa-miR-101a-3p, ssa-miR-101a-5p, ssa-miR-101b-3p, ssa-miR-101b-5p, ssa-miR-103-3p, ssa-miR-103-5p, ssa-miR-106a-3p, ssa-miR-

106a-5p, ssa-miR-106b-3p, ssa-miR-106b-5p, ssa-miR-107-3p, ssa-miR-107-5p, ssa-miR-10a-2-3p, ssa-miR-10a-3p, ssa-miR-10a-5p, ssa-miR-10b-2-3p, ssa-miR-10b-3-3p, ssa-miR-10b-3p, ssa-miR-10b-5p, ssa-miR-10d-3p, ssa-miR-10d-5p, ssa-miR-122-2-3p, ssa-miR-122-3p, ssa-miR-122-5p, ssa-miR-125a-2-3p, ssa-miR-125a-3p, ssa-miR-125a-5p, ssa-miR-125b-1-3p, ssa-miR-125b-2-3p, ssa-miR-125b-3-3p, ssa-miR-125b-5p, ssa-miR-126-3p, ssa-miR-126-5p, ssa-miR-128-1-5p, ssa-miR-128-2-5p, ssa-miR-128-3-5p, ssa-miR-128-3p, ssa-miR-128-4-5p, ssa-miR-129-3-3p, ssa-miR-129-3p, ssa-miR-129-5p, ssa-miR-130a-2-3p, ssa-miR-130a-3p, ssa-miR-130a-5p, ssa-miR-130b-2-5p, ssa-miR-130b-3p, ssa-miR-130b-5p, ssa-miR-130d-1-5p, ssa-miR-130d-2-5p, ssa-miR-130d-3-5p, ssa-miR-130d-3p, ssa-miR-132-3-5p, ssa-miR-132-3p, ssa-miR-132-4-5p, ssa-miR-132-5p, ssa-miR-1338-3p, ssa-miR-1338-5p, ssa-miR-133a-3-5p, ssa-miR-133a-3p, ssa-miR-133a-5p, ssa-miR-133b-3p, ssa-miR-133b-5p, ssa-miR-135a-3p, ssa-miR-135a-5p, ssa-miR-135b-1-3p, ssa-miR-135b-2-3p, ssa-miR-135b-3-3p, ssa-miR-135b-5p, ssa-miR-135c-3p, ssa-miR-135c-5p, ssa-miR-137-3p, ssa-miR-137-5p, ssa-miR-138-3-3p, ssa-miR-138-3p, ssa-miR-138-4-3p, ssa-miR-138-5p, ssa-miR-139-2-3p, ssa-miR-139-3p, ssa-miR-139-5p, ssa-miR-140-3p, ssa-miR-140-5p, ssa-miR-142a-3p, ssa-miR-142a-5p, ssa-miR-142b-3p, ssa-miR-142b-5p, ssa-miR-143-3p, ssa-miR-143-5p, ssa-miR-144-3p, ssa-miR-144-5p, ssa-miR-145-3p, ssa-miR-145-5p, ssa-miR-146a-3-3p, ssa-miR-146a-3p, ssa-miR-146a-5p, ssa-miR-146b-3p, ssa-miR-146b-5p, ssa-miR-146d-2-3p, ssa-miR-146d-3p, ssa-miR-146d-5p, ssa-miR-148a-3p, ssa-miR-148a-5p, ssa-miR-148b-3p, ssa-miR-148b-5p, ssa-miR-150-3p, ssa-miR-150-5p, ssa-miR-152-3p, ssa-miR-152-5p, ssa-miR-153a-2-5p, ssa-miR-153a-3p, ssa-miR-153a-5p, ssa-miR-153b-3p, ssa-miR-153b-5p, ssa-miR-155-3p, ssa-miR-155-5p, ssa-miR-15a-3p, ssa-miR-15a-5p, ssa-miR-15b-3p, ssa-miR-15b-5p, ssa-miR-15c-2-3p, ssa-miR-15c-3p, ssa-miR-15c-5p, ssa-miR-15d-3p, ssa-miR-15d-5p, ssa-miR-15e-3p, ssa-miR-15e-5p, ssa-miR-16a-2-3p, ssa-miR-16a-3p, ssa-miR-16a-5p, ssa-miR-16b-3p, ssa-miR-16b-5p, ssa-miR-16c-3p, ssa-miR-16c-5p, ssa-miR-17-3-3p, ssa-miR-17-3p, ssa-miR-17-5p, ssa-miR-1788-3p, ssa-miR-1788-5p, ssa-miR-181a-1-3p, ssa-miR-181a-2-3p, ssa-miR-181a-3-3p, ssa-miR-181a-4-3p, ssa-miR-181a-5-3p, ssa-miR-181a-5p, ssa-miR-181b-3p, ssa-miR-181b-5p, ssa-miR-181c-3p, ssa-miR-181c-5p, ssa-miR-182-3p, ssa-miR-182-5p, ssa-miR-183-2-3p, ssa-miR-183-3p, ssa-miR-183-5p, ssa-miR-18a-3p, ssa-miR-18a-5p, ssa-miR-18b-3p, ssa-miR-18b-5p, ssa-miR-190a-3p, ssa-miR-190a-5p, ssa-miR-190b-3p, ssa-miR-190b-5p, ssa-miR-192a-2-3p, ssa-miR-192a-3p, ssa-miR-192a-5p, ssa-miR-192b-3p, ssa-miR-192b-5p, ssa-miR-193-3p, ssa-miR-193-5p, ssa-miR-194a-3p, ssa-miR-194a-5p, ssa-miR-194b-3p, ssa-miR-194b-5p, ssa-miR-194c-3p, ssa-miR-194c-5p, ssa-miR-196a-1-3p, ssa-miR-196a-2-3p, ssa-miR-196a-3-3p, ssa-miR-196a-4-

3p, ssa-miR-196a-5p, ssa-miR-196b-3p, ssa-miR-196b-5p, ssa-miR-199a-3p, ssa-miR-199a-5p, ssa-miR-19a-3-5p, ssa-miR-19a-3p, ssa-miR-19a-5p, ssa-miR-19c-3-5p, ssa-miR-19c-3p, ssa-miR-19c-4-5p, ssa-miR-19c-5p, ssa-miR-19d-3p, ssa-miR-19d-5p, ssa-miR-200a-1-5p, ssa-miR-200a-2-5p, ssa-miR-200a-3-5p, ssa-miR-200a-3p, ssa-miR-200b-3p, ssa-miR-200b-5p, ssa-miR-202-3p, ssa-miR-202-5p, ssa-miR-203a-2-5p, ssa-miR-203a-3p, ssa-miR-203a-5p, ssa-miR-203b-3p, ssa-miR-203b-5p, ssa-miR-204-3-3p, ssa-miR-204-3p, ssa-miR-204-4-3p, ssa-miR-204-5p, ssa-miR-205a-2-3p, ssa-miR-205a-3p, ssa-miR-205a-5p, ssa-miR-205b-1-3p, ssa-miR-205b-2-3p, ssa-miR-205b-3-3p, ssa-miR-205b-4-3p, ssa-miR-205b-5p, ssa-miR-206-3p, ssa-miR-206-5p, ssa-miR-20a-1-3p, ssa-miR-20a-2-3p, ssa-miR-20a-3-3p, ssa-miR-20a-5p, ssa-miR-20b-3p, ssa-miR-20b-5p, ssa-miR-210-3p, ssa-miR-210-5p, ssa-miR-212a-3p, ssa-miR-212a-5p, ssa-miR-212b-3p, ssa-miR-212b-5p, ssa-miR-214-3p, ssa-miR-214-5p, ssa-miR-216a-3p, ssa-miR-216a-5p, ssa-miR-216b-3p, ssa-miR-216b-5p, ssa-miR-218-3p, ssa-miR-218-5p, ssa-miR-2184-3p, ssa-miR-2184-5p, ssa-miR-2187-3p, ssa-miR-2187-5p, ssa-miR-2188-3p, ssa-miR-2188-5p, ssa-miR-219a-3p, ssa-miR-219a-5p, ssa-miR-219b-3p, ssa-miR-219b-5p, ssa-miR-219c-2-3p, ssa-miR-219c-3p, ssa-miR-219c-5p, ssa-miR-21a-2-3p, ssa-miR-21a-3p, ssa-miR-21a-5p, ssa-miR-21b-3p, ssa-miR-21b-5p, ssa-miR-221-3p, ssa-miR-221-5p, ssa-miR-222a-3p, ssa-miR-222a-5p, ssa-miR-222b-3p, ssa-miR-222b-5p, ssa-miR-22a-3p, ssa-miR-22a-5p, ssa-miR-22b-3p, ssa-miR-22b-5p, ssa-miR-23a-3-5p, ssa-miR-23a-3p, ssa-miR-23a-4-5p, ssa-miR-23a-5p, ssa-miR-23b-3p, ssa-miR-23b-5p, ssa-miR-24a-3-5p, ssa-miR-24a-3p, ssa-miR-24a-4-5p, ssa-miR-24a-5p, ssa-miR-24b-3p, ssa-miR-24b-5p, ssa-miR-25-3-5p, ssa-miR-25-3p, ssa-miR-25-5p, ssa-miR-26a-3-3p, ssa-miR-26a-3p, ssa-miR-26a-4-3p, ssa-miR-26a-5-3p, ssa-miR-26a-5p, ssa-miR-26a-6-3p, ssa-miR-26b-3p, ssa-miR-26b-5p, ssa-miR-26d-3p, ssa-miR-26d-5p, ssa-miR-27a-2-5p, ssa-miR-27a-3p, ssa-miR-27a-5p, ssa-miR-27b-3p, ssa-miR-27b-5p, ssa-miR-27c-2-5p, ssa-miR-27c-3p, ssa-miR-27c-5p, ssa-miR-27d-3p, ssa-miR-27d-5p, ssa-miR-29a-3p, ssa-miR-29a-5p, ssa-miR-29b-1-5p, ssa-miR-29b-2-5p, ssa-miR-29b-3-5p, ssa-miR-29b-3p, ssa-miR-29b-4-5p, ssa-miR-29c-3p, ssa-miR-29c-5p, ssa-miR-301a-3p, ssa-miR-301a-5p, ssa-miR-301b-3p, ssa-miR-301b-5p, ssa-miR-301c-3p, ssa-miR-301c-5p, ssa-miR-301d-3p, ssa-miR-301d-5p, ssa-miR-30a-3-3p, ssa-miR-30a-3p, ssa-miR-30a-4-3p, ssa-miR-30a-5p, ssa-miR-30b-3p, ssa-miR-30b-5p, ssa-miR-30c-3p, ssa-miR-30c-5p, ssa-miR-30d-2-3p, ssa-miR-30d-3p, ssa-miR-30d-5p, ssa-miR-30e-3-3p, ssa-miR-30e-3p, ssa-miR-30e-5p, ssa-miR-338a-3-5p, ssa-miR-338a-3p, ssa-miR-338a-4-5p, ssa-miR-338a-5p, ssa-miR-33a-3p, ssa-miR-33a-5p, ssa-miR-33b-3p, ssa-miR-33b-5p, ssa-miR-365-2-5p, ssa-miR-365-3p, ssa-miR-365-5p, ssa-miR-375-2-5p, ssa-miR-375-3-5p, ssa-miR-375-3p, ssa-miR-375-5p, ssa-miR-429-3p, ssa-miR-429-

5p, ssa-miR-430a-3p, ssa-miR-430a-5p, ssa-miR-430b-3p, ssa-miR-430b-5p, ssa-miR-430c-3p, ssa-miR-430c-5p, ssa-miR-449a-3p, ssa-miR-449a-5p, ssa-miR-449b-3p, ssa-miR-449b-5p, ssa-miR-454-3p, ssa-miR-454-5p, ssa-miR-455-3p, ssa-miR-455-5p, ssa-miR-456-3p, ssa-miR-456-5p, ssa-miR-458-3p, ssa-miR-458-5p, ssa-miR-459-3p, ssa-miR-459-5p, ssa-miR-460-3p, ssa-miR-460-5p, ssa-miR-462a-3p, ssa-miR-462a-5p, ssa-miR-462b-3p, ssa-miR-462b-5p, ssa-miR-489-3p, ssa-miR-489-5p, ssa-miR-499a-3p, ssa-miR-499a-5p, ssa-miR-499b-3p, ssa-miR-499b-5p, ssa-miR-551-3p, ssa-miR-551-5p, ssa-miR-7132a-3p, ssa-miR-7132a-5p, ssa-miR-7132b-3p, ssa-miR-7132b-5p, ssa-miR-722-3p, ssa-miR-722-5p, ssa-miR-723-3p, ssa-miR-723-5p, ssa-miR-724-3p, ssa-miR-724-5p, ssa-miR-725-3p, ssa-miR-725-5p, ssa-miR-727-3p, ssa-miR-727-5p, ssa-miR-729-3p, ssa-miR-729-5p, ssa-miR-730a-2-3p, ssa-miR-730a-3p, ssa-miR-730a-5p, ssa-miR-731-3p, ssa-miR-731-5p, ssa-miR-734-3p, ssa-miR-734-5p, ssa-miR-736-3p, ssa-miR-736-5p, ssa-miR-737-3p, ssa-miR-737-5p, ssa-miR-7552a-2-3p, ssa-miR-7552a-3p, ssa-miR-7552a-5p, ssa-miR-7552b-3p, ssa-miR-7552b-5p, ssa-miR-7a-1-3p, ssa-miR-7a-2-3p, ssa-miR-7a-3-3p, ssa-miR-7a-4-3p, ssa-miR-7a-5-3p, ssa-miR-7a-5p, ssa-miR-7a-6-3p, ssa-miR-7a-7-3p, ssa-miR-8156-3p, ssa-miR-8156-5p, ssa-miR-8157-3p, ssa-miR-8157-5p, ssa-miR-8158-3p, ssa-miR-8158-5p, ssa-miR-8159-3p, ssa-miR-8159-5p, ssa-miR-8160-2-3p, ssa-miR-8160-3p, ssa-miR-8160-5p, ssa-miR-8162-3p, ssa-miR-8162-5p, ssa-miR-8163-3p, ssa-miR-8163-5p, ssa-miR-8164-3p, ssa-miR-8164-5p, ssa-miR-92a-3-5p, ssa-miR-92a-3p, ssa-miR-92a-4-5p, ssa-miR-92a-5p, ssa-miR-92b-3p, ssa-miR-92b-5p, ssa-miR-93a-2-3p, ssa-miR-93a-3p, ssa-miR-93a-5p, ssa-miR-96-3p, ssa-miR-96-5p, ssa-miR-99-2-3p, ssa-miR-99-3p, ssa-miR-99-5p, ssa-miR-9a-1-3p, ssa-miR-9a-2-3p, ssa-miR-9a-3-3p, ssa-miR-9a-4-3p, ssa-miR-9a-5-3p, ssa-miR-9a-5p, ssa-miR-9a-6-3p, ssa-miR-9a-7-3p, ssa-miR-9a-8-3p, ssa-miR-9b-3p, ssa-miR-9b-5p, ssc-let-7a, ssc-let-7c, ssc-let-7d-3p, ssc-let-7d-5p, ssc-let-7e, ssc-let-7f-3p, ssc-let-7f-5p, ssc-let-7g, ssc-let-7i-3p, ssc-let-7i-5p, ssc-miR-1, ssc-miR-100, ssc-miR-101, ssc-miR-103, ssc-miR-10382, ssc-miR-10383, ssc-miR-10384, ssc-miR-10386, ssc-miR-10387, ssc-miR-10388, ssc-miR-10389, ssc-miR-10390, ssc-miR-10391, ssc-miR-105-1, ssc-miR-105-2, ssc-miR-106a, ssc-miR-107, ssc-miR-10a-3p, ssc-miR-10a-5p, ssc-miR-10b, ssc-miR-122-3p, ssc-miR-122-5p, ssc-miR-1224, ssc-miR-1249, ssc-miR-124a, ssc-miR-125a, ssc-miR-125b, ssc-miR-126-3p, ssc-miR-126-5p, ssc-miR-127, ssc-miR-1271-3p, ssc-miR-1271-5p, ssc-miR-1277, ssc-miR-128, ssc-miR-1285, ssc-miR-1296-3p, ssc-miR-1296-5p, ssc-miR-129a-3p, ssc-miR-129a-5p, ssc-miR-129b, ssc-miR-1306-3p, ssc-miR-1306-5p, ssc-miR-1307, ssc-miR-130a, ssc-miR-130b-3p, ssc-miR-130b-5p, ssc-miR-132, ssc-miR-133a-3p, ssc-miR-133a-5p, ssc-miR-133b, ssc-miR-1343, ssc-miR-135, ssc-miR-136-3p, ssc-miR-136-5p, ssc-miR-137, ssc-miR-138,

ssc-miR-1388, ssc-miR-139-3p, ssc-miR-139-5p, ssc-miR-140-3p, ssc-miR-140-5p, ssc-miR-141, ssc-miR-142-3p, ssc-miR-142-5p, ssc-miR-143-3p, ssc-miR-143-5p, ssc-miR-144, ssc-miR-145-3p, ssc-miR-145-5p, ssc-miR-1468, ssc-miR-146a-3p, ssc-miR-146a-5p, ssc-miR-146b, ssc-miR-148a-3p, ssc-miR-148a-5p, ssc-miR-148b-3p, ssc-miR-148b-5p, ssc-miR-149, ssc-miR-150, ssc-miR-151-3p, ssc-miR-151-5p, ssc-miR-152, ssc-miR-153, ssc-miR-155-3p, ssc-miR-155-5p, ssc-miR-15a, ssc-miR-15b, ssc-miR-16, ssc-miR-17-3p, ssc-miR-17-5p, ssc-miR-181a, ssc-miR-181b, ssc-miR-181c, ssc-miR-181d-3p, ssc-miR-181d-5p, ssc-miR-182, ssc-miR-183, ssc-miR-1839-3p, ssc-miR-1839-5p, ssc-miR-184, ssc-miR-1842, ssc-miR-185, ssc-miR-186-3p, ssc-miR-186-5p, ssc-miR-187, ssc-miR-18a, ssc-miR-18b, ssc-miR-190a, ssc-miR-190b, ssc-miR-191, ssc-miR-192, ssc-miR-193a-3p, ssc-miR-193a-5p, ssc-miR-194a-3p, ssc-miR-194a-5p, ssc-miR-194b-3p, ssc-miR-194b-5p, ssc-miR-195, ssc-miR-196a, ssc-miR-196b-3p, ssc-miR-196b-5p, ssc-miR-199a-3p, ssc-miR-199a-5p, ssc-miR-199b-3p, ssc-miR-199b-5p, ssc-miR-19a, ssc-miR-19b, ssc-miR-200b, ssc-miR-202-3p, ssc-miR-202-5p, ssc-miR-204, ssc-miR-205, ssc-miR-206, ssc-miR-208b, ssc-miR-20a-3p, ssc-miR-20a-5p, ssc-miR-20b, ssc-miR-21-3p, ssc-miR-21-5p, ssc-miR-210, ssc-miR-212, ssc-miR-214-3p, ssc-miR-214-5p, ssc-miR-215, ssc-miR-216, ssc-miR-217, ssc-miR-218, ssc-miR-218-3p, ssc-miR-218-5p, ssc-miR-218b, ssc-miR-219a, ssc-miR-219b-3p, ssc-miR-22-3p, ssc-miR-22-5p, ssc-miR-221-3p, ssc-miR-221-5p, ssc-miR-222, ssc-miR-223, ssc-miR-224, ssc-miR-2320-3p, ssc-miR-2320-5p, ssc-miR-2366, ssc-miR-23a, ssc-miR-23b, ssc-miR-24-1-5p, ssc-miR-24-2-5p, ssc-miR-24-3p, ssc-miR-2411, ssc-miR-2483, ssc-miR-26a, ssc-miR-26b-3p, ssc-miR-26b-5p, ssc-miR-27a, ssc-miR-27b-3p, ssc-miR-27b-5p, ssc-miR-28-3p, ssc-miR-28-5p, ssc-miR-296-3p, ssc-miR-296-5p, ssc-miR-299, ssc-miR-29a-3p, ssc-miR-29a-5p, ssc-miR-29b, ssc-miR-29c, ssc-miR-301, ssc-miR-30a-3p, ssc-miR-30a-5p, ssc-miR-30b-3p, ssc-miR-30b-5p, ssc-miR-30c-1-3p, ssc-miR-30c-3p, ssc-miR-30c-5p, ssc-miR-30d, ssc-miR-30e-3p, ssc-miR-30e-5p, ssc-miR-31, ssc-miR-32, ssc-miR-320, ssc-miR-323, ssc-miR-324, ssc-miR-325, ssc-miR-326, ssc-miR-328, ssc-miR-330, ssc-miR-331-3p, ssc-miR-331-5p, ssc-miR-335, ssc-miR-338, ssc-miR-339, ssc-miR-339-3p, ssc-miR-339-5p, ssc-miR-33b-3p, ssc-miR-33b-5p, ssc-miR-340, ssc-miR-342, ssc-miR-345-3p, ssc-miR-345-5p, ssc-miR-34a, ssc-miR-34c, ssc-miR-361-3p, ssc-miR-361-5p, ssc-miR-3613, ssc-miR-362, ssc-miR-363, ssc-miR-365-3p, ssc-miR-365-5p, ssc-miR-369, ssc-miR-370, ssc-miR-371-5p, ssc-miR-374a-3p, ssc-miR-374a-5p, ssc-miR-374b-3p, ssc-miR-374b-5p, ssc-miR-375, ssc-miR-376a-3p, ssc-miR-376a-5p, ssc-miR-376b, ssc-miR-376c, ssc-miR-378, ssc-miR-378b-3p, ssc-miR-381-3p, ssc-miR-381-5p, ssc-miR-382, ssc-miR-383, ssc-miR-411, ssc-miR-421-3p, ssc-miR-421-5p, ssc-miR-423-3p, ssc-miR-423-5p, ssc-miR-424-3p, ssc-

miR-424-5p, ssc-miR-425-3p, ssc-miR-425-5p, ssc-miR-429, ssc-miR-432-3p, ssc-miR-432-5p, ssc-miR-4331-3p, ssc-miR-4331-5p, ssc-miR-4332, ssc-miR-4334-3p, ssc-miR-4334-5p, ssc-miR-4335, ssc-miR-4337, ssc-miR-4338, ssc-miR-4339, ssc-miR-450a, ssc-miR-450b-3p, ssc-miR-450b-5p, ssc-miR-450c-3p, ssc-miR-450c-5p, ssc-miR-451, ssc-miR-452, ssc-miR-454, ssc-miR-455-3p, ssc-miR-455-5p, ssc-miR-484, ssc-miR-486, ssc-miR-487b, ssc-miR-489, ssc-miR-490, ssc-miR-490-3p, ssc-miR-490-5p, ssc-miR-491, ssc-miR-493-3p, ssc-miR-493-5p, ssc-miR-494, ssc-miR-497, ssc-miR-499-3p, ssc-miR-499-5p, ssc-miR-500-3p, ssc-miR-500-5p, ssc-miR-503, ssc-miR-504, ssc-miR-505, ssc-miR-532-3p, ssc-miR-532-5p, ssc-miR-542-3p, ssc-miR-542-5p, ssc-miR-545-3p, ssc-miR-545-5p, ssc-miR-551a, ssc-miR-574-3p, ssc-miR-574-5p, ssc-miR-582-3p, ssc-miR-582-5p, ssc-miR-615, ssc-miR-628-3p, ssc-miR-628-5p, ssc-miR-6516, ssc-miR-652, ssc-miR-6529, ssc-miR-660, ssc-miR-664-3p, ssc-miR-664-5p, ssc-miR-670, ssc-miR-671-3p, ssc-miR-671-5p, ssc-miR-676-3p, ssc-miR-676-5p, ssc-miR-6782-3p, ssc-miR-7-3p, ssc-miR-7-5p, ssc-miR-708-3p, ssc-miR-708-5p, ssc-miR-7134-3p, ssc-miR-7134-5p, ssc-miR-7135-3p, ssc-miR-7135-5p, ssc-miR-7136-3p, ssc-miR-7136-5p, ssc-miR-7137-3p, ssc-miR-7137-5p, ssc-miR-7138-3p, ssc-miR-7138-5p, ssc-miR-7139-3p, ssc-miR-7139-5p, ssc-miR-7140-3p, ssc-miR-7140-5p, ssc-miR-7141-3p, ssc-miR-7141-5p, ssc-miR-7142-3p, ssc-miR-7142-5p, ssc-miR-7143-3p, ssc-miR-7143-5p, ssc-miR-7144-3p, ssc-miR-7144-5p, ssc-miR-744, ssc-miR-758, ssc-miR-769-3p, ssc-miR-769-5p, ssc-miR-7857-3p, ssc-miR-802, ssc-miR-874, ssc-miR-885-3p, ssc-miR-885-5p, ssc-miR-9, ssc-miR-9-1, ssc-miR-9-2, ssc-miR-92a, ssc-miR-92b-3p, ssc-miR-92b-5p, ssc-miR-935, ssc-miR-95, ssc-miR-96-5p, ssc-miR-9784-5p, ssc-miR-9785-5p, ssc-miR-9786-3p, ssc-miR-9787-3p, ssc-miR-9788-3p, ssc-miR-9789-3p, ssc-miR-9790-3p, ssc-miR-9791-3p, ssc-miR-9792-5p, ssc-miR-9793-5p, ssc-miR-9794-3p, ssc-miR-9795-3p, ssc-miR-9796-3p, ssc-miR-9797-3p, ssc-miR-9798-3p, ssc-miR-9799-3p, ssc-miR-98, ssc-miR-9800-3p, ssc-miR-9801-5p, ssc-miR-9802-3p, ssc-miR-9803-5p, ssc-miR-9804-5p, ssc-miR-9805-3p, ssc-miR-9806-5p, ssc-miR-9807-5p, ssc-miR-9808-3p, ssc-miR-9809-3p, ssc-miR-9810-3p, ssc-miR-9811-5p, ssc-miR-9812-3p, ssc-miR-9813-5p, ssc-miR-9814-3p, ssc-miR-9815-3p, ssc-miR-9816-3p, ssc-miR-9817-5p, ssc-miR-9818-3p, ssc-miR-9819-5p, ssc-miR-9820-5p, ssc-miR-9821-5p, ssc-miR-9822-3p, ssc-miR-9823-5p, ssc-miR-9824-5p, ssc-miR-9825-5p, ssc-miR-9826-5p, ssc-miR-9827-5p, ssc-miR-9828-3p, ssc-miR-9829-5p, ssc-miR-9830-5p, ssc-miR-9831-3p, ssc-miR-9832-3p, ssc-miR-9833-5p, ssc-miR-9834-5p, ssc-miR-9835-3p, ssc-miR-9836-3p, ssc-miR-9837-5p, ssc-miR-9838-5p, ssc-miR-9839-5p, ssc-miR-9840-3p, ssc-miR-9841-3p, ssc-miR-9842-5p, ssc-miR-9843-3p, ssc-miR-9844-3p, ssc-miR-9845-5p, ssc-miR-9846-3p, ssc-miR-9847-3p, ssc-miR-9848-3p, ssc-miR-9849-5p, ssc-miR-9850-

5p, ssc-miR-9851-3p, ssc-miR-9852-3p, ssc-miR-9853-5p, ssc-miR-9854-5p, ssc-miR-9855-5p, ssc-miR-9856-3p, ssc-miR-9857-5p, ssc-miR-9858-5p, ssc-miR-9859-3p, ssc-miR-9860-5p, ssc-miR-9861-5p, ssc-miR-9862-3p, ssc-miR-99a-3p, ssc-miR-99a-5p, ssc-miR-99b, ssl-miR1078, ssl-miR156, ssl-miR164a, ssl-miR164b, ssl-miR166a, ssl-miR166b, ssl-miR169, ssl-miR171a, ssl-miR171b, ssl-miR172, ssl-miR394, ssl-miR395, ssl-miR396, ssl-miR397, ssl-miR398, ssl-miR399, ssl-miR828, ssl-miR948, ssp-miR1128, ssp-miR1432, ssp-miR156, ssp-miR159a, ssp-miR166, ssp-miR167b, ssp-miR168a, ssp-miR169, ssp-miR396, ssp-miR408a, ssp-miR408d, ssp-miR437a, ssp-miR437b, ssp-miR437c, ssp-miR444a, ssp-miR444b.1, ssp-miR444b.2, ssp-miR444c-3p, ssp-miR528, ssp-miR827, ssy-miR-506, ssy-miR-507, ssy-miR-508, ssy-miR-509a, ssy-miR-509b, ssy-miR-510, ssy-miR-513a, ssy-miR-513b, ssy-miR-513c, ssy-miR-514, str-bantam-3p, str-bantam-5p, str-lin-4-3p, str-lin-4-5p, str-miR-1-3p, str-miR-1-5p, str-miR-1175-3p, str-miR-1175-5p, str-miR-124-3p, str-miR-124-5p, str-miR-184-3p, str-miR-184-5p, str-miR-2-3p, str-miR-2-5p, str-miR-234-3p, str-miR-234-5p, str-miR-236-3p, str-miR-236-5p, str-miR-240-3p, str-miR-240-5p, str-miR-252a-3p, str-miR-252a-5p, str-miR-252b-3p, str-miR-252b-5p, str-miR-255-3p, str-miR-255-5p, str-miR-279-3p, str-miR-279-5p, str-miR-34a-3p, str-miR-34a-5p, str-miR-34b-3p, str-miR-34b-5p, str-miR-34c-3p, str-miR-34c-5p, str-miR-360-3p, str-miR-360-5p, str-miR-37a-3p, str-miR-37a-5p, str-miR-37b-3p, str-miR-37b-5p, str-miR-40-3p, str-miR-40-5p, str-miR-47-3p, str-miR-47-5p, str-miR-50-3p, str-miR-50-5p, str-miR-5359-3p, str-miR-5359-5p, str-miR-58-3p, str-miR-58-5p, str-miR-71-3p, str-miR-71-5p, str-miR-72-3p, str-miR-72-5p, str-miR-76-3p, str-miR-76-5p, str-miR-7880a-3p, str-miR-7880a-5p, str-miR-7880b-1-5p, str-miR-7880b-2-5p, str-miR-7880b-3-5p, str-miR-7880b-3p, str-miR-7880b-4-5p, str-miR-7880c-3p, str-miR-7880c-5p, str-miR-7880d-3p, str-miR-7880d-5p, str-miR-7880e-2-5p, str-miR-7880e-3p, str-miR-7880e-5p, str-miR-7880f-3p, str-miR-7880f-5p, str-miR-7880g-3p, str-miR-7880g-5p, str-miR-7880h-3p, str-miR-7880h-5p, str-miR-7880i-3p, str-miR-7880i-5p, str-miR-7880j-3p, str-miR-7880j-5p, str-miR-7880k-3p, str-miR-7880k-5p, str-miR-7880l-3p, str-miR-7880l-5p, str-miR-7880m-3p, str-miR-7880m-5p, str-miR-7880n-3p, str-miR-7880n-5p, str-miR-7880o-3p, str-miR-7880o-5p, str-miR-7880p-3p, str-miR-7880p-5p, str-miR-7880q-3p, str-miR-7880q-5p, str-miR-7880r-3p, str-miR-7880r-5p, str-miR-7880s-3p, str-miR-7880s-5p, str-miR-7880t-3p, str-miR-7880t-5p, str-miR-7880u-3p, str-miR-7880u-5p, str-miR-7880v-3p, str-miR-7880v-5p, str-miR-7880w-3p, str-miR-7880w-5p, str-miR-7880x-3p, str-miR-7880x-5p, str-miR-7880y-3p, str-miR-7880y-5p, str-miR-81a-3p, str-miR-81a-5p, str-miR-81b-3p, str-miR-81b-5p, str-miR-81c-3p, str-miR-81c-5p, str-miR-8365-3p, str-miR-8365-5p, str-miR-8366a-3p, str-miR-8366a-5p, str-miR-8366b-3p, str-miR-

8366b-5p, str-miR-8367-3p, str-miR-8367-5p, str-miR-8368-3p, str-miR-8368-5p, str-miR-8369-3p, str-miR-8369-5p, str-miR-8370-3p, str-miR-8370-5p, str-miR-8371-3p, str-miR-8371-5p, str-miR-8372-3p, str-miR-8372-5p, str-miR-8373-3p, str-miR-8373-5p, str-miR-8374-3p, str-miR-8374-5p, str-miR-8375-3p, str-miR-8375-5p, str-miR-8376-3p, str-miR-8376-5p, str-miR-8377-3p, str-miR-8377-5p, str-miR-8378-3p, str-miR-8378-5p, str-miR-8379a-3p, str-miR-8379a-5p, str-miR-8379b-3p, str-miR-8379b-5p, str-miR-8380-3p, str-miR-8380-5p, str-miR-8381-3p, str-miR-8381-5p, str-miR-8382-3p, str-miR-8382-5p, str-miR-8383-3p, str-miR-8383-5p, str-miR-8384-3p, str-miR-8384-5p, str-miR-8385-3p, str-miR-8385-5p, str-miR-8386-3p, str-miR-8386-5p, str-miR-8387-3p, str-miR-8387-5p, str-miR-8388-3p, str-miR-8388-5p, str-miR-8389-3p, str-miR-8389-5p, str-miR-8390-3p, str-miR-8390-5p, str-miR-8391-3p, str-miR-8391-5p, str-miR-8392-3p, str-miR-8392-5p, str-miR-8393-3p, str-miR-8393-5p, str-miR-8394-3p, str-miR-8394-5p, str-miR-8395-3p, str-miR-8395-5p, str-miR-8396-3p, str-miR-8396-5p, str-miR-8397-3p, str-miR-8397-5p, str-miR-8398-3p, str-miR-8398-5p, str-miR-8399-3p, str-miR-8399-5p, str-miR-84-3p, str-miR-84-5p, str-miR-8400-3p, str-miR-8400-5p, str-miR-8401-3p, str-miR-8401-5p, str-miR-8402-3p, str-miR-8402-5p, str-miR-86-3p, str-miR-86-5p, str-miR-87a-3p, str-miR-87a-5p, str-miR-87b-3p, str-miR-87b-5p, str-miR-9-3p, str-miR-9-5p, str-miR-92-3p, str-miR-92-5p, stu-miR156a, stu-miR156b, stu-miR156c, stu-miR156d-3p, stu-miR156d-5p, stu-miR156e, stu-miR156f-3p, stu-miR156f-5p, stu-miR156g-3p, stu-miR156g-5p, stu-miR156h-3p, stu-miR156h-5p, stu-miR156i-3p, stu-miR156i-5p, stu-miR156j-3p, stu-miR156j-5p, stu-miR156k-3p, stu-miR156k-5p, stu-miR160a-3p, stu-miR160a-5p, stu-miR160b, stu-miR162a-3p, stu-miR162a-5p, stu-miR162b-3p, stu-miR162b-5p, stu-miR164-3p, stu-miR164-5p, stu-miR166a-3p, stu-miR166a-5p, stu-miR166b, stu-miR166c-3p, stu-miR166c-5p, stu-miR166d-3p, stu-miR166d-5p, stu-miR167a-3p, stu-miR167a-5p, stu-miR167b-3p, stu-miR167b-5p, stu-miR167c-3p, stu-miR167c-5p, stu-miR167d-3p, stu-miR167d-5p, stu-miR169a-3p, stu-miR169a-5p, stu-miR169b-3p, stu-miR169b-5p, stu-miR169c-3p, stu-miR169c-5p, stu-miR169d-3p, stu-miR169d-5p, stu-miR169e-3p, stu-miR169e-5p, stu-miR169f-3p, stu-miR169f-5p, stu-miR169g, stu-miR169h, stu-miR171a-3p, stu-miR171a-5p, stu-miR171b-3p, stu-miR171b-5p, stu-miR171c-3p, stu-miR171c-5p, stu-miR171d-3p, stu-miR171d-5p, stu-miR171e, stu-miR172a-3p, stu-miR172a-5p, stu-miR172b-3p, stu-miR172b-5p, stu-miR172c-3p, stu-miR172c-5p, stu-miR172d-3p, stu-miR172d-5p, stu-miR172e-3p, stu-miR172e-5p, stu-miR1886a, stu-miR1886b, stu-miR1886c, stu-miR1886d, stu-miR1886e, stu-miR1886f, stu-miR1886g-3p, stu-miR1886g-5p, stu-miR1886h, stu-miR1886i-3p, stu-miR1886i-5p, stu-miR1919-3p, stu-miR1919-5p, stu-miR319-3p, stu-

miR319-5p, stu-miR319a-3p, stu-miR319a-5p, stu-miR319b, stu-miR3627-3p, stu-miR3627-5p, stu-miR384-3p, stu-miR384-5p, stu-miR390-3p, stu-miR390-5p, stu-miR391-3p, stu-miR391-5p, stu-miR393-3p, stu-miR393-5p, stu-miR395a, stu-miR395b, stu-miR395c, stu-miR395d, stu-miR395e, stu-miR395f, stu-miR395g, stu-miR395h, stu-miR395i, stu-miR395j, stu-miR396-3p, stu-miR396-5p, stu-miR397-3p, stu-miR397-5p, stu-miR398a-3p, stu-miR398a-5p, stu-miR398b-3p, stu-miR398b-5p, stu-miR399a-3p, stu-miR399a-5p, stu-miR399b-3p, stu-miR399b-5p, stu-miR399c-3p, stu-miR399c-5p, stu-miR399d-3p, stu-miR399d-5p, stu-miR399e-3p, stu-miR399e-5p, stu-miR399f-3p, stu-miR399f-5p, stu-miR399g-3p, stu-miR399g-5p, stu-miR399h, stu-miR399i-3p, stu-miR399i-5p, stu-miR399j-3p, stu-miR399j-5p, stu-miR399k-3p, stu-miR399k-5p, stu-miR399l-3p, stu-miR399l-5p, stu-miR399m-3p, stu-miR399m-5p, stu-miR399n-3p, stu-miR399n-5p, stu-miR399o-3p, stu-miR399o-5p, stu-miR408a-3p, stu-miR408a-5p, stu-miR408b-3p, stu-miR408b-5p, stu-miR477a-3p, stu-miR477a-5p, stu-miR477b-3p, stu-miR477b-5p, stu-miR479, stu-miR482a-3p, stu-miR482a-5p, stu-miR482b-3p, stu-miR482b-5p, stu-miR482c, stu-miR482d-3p, stu-miR482d-5p, stu-miR482e-3p, stu-miR482e-5p, stu-miR530, stu-miR5303a, stu-miR5303b, stu-miR5303c, stu-miR5303d, stu-miR5303e, stu-miR5303f, stu-miR5303g, stu-miR5303h, stu-miR5303i, stu-miR5303j, stu-miR5304-3p, stu-miR5304-5p, stu-miR6022, stu-miR6023, stu-miR6024-3p, stu-miR6024-5p, stu-miR6025, stu-miR6026-3p, stu-miR6026-5p, stu-miR6027, stu-miR6149-3p, stu-miR6149-5p, stu-miR7122-3p, stu-miR7122-5p, stu-miR7979, stu-miR7980a, stu-miR7980b-3p, stu-miR7980b-5p, stu-miR7981-3p, stu-miR7981-5p, stu-miR7982a, stu-miR7982b, stu-miR7983-3p, stu-miR7983-5p, stu-miR7984a, stu-miR7984b-3p, stu-miR7984b-5p, stu-miR7984c-3p, stu-miR7984c-5p, stu-miR7984d-3p, stu-miR7984d-5p, stu-miR7985, stu-miR7986, stu-miR7987, stu-miR7988, stu-miR7989, stu-miR7990a, stu-miR7990b, stu-miR7991a, stu-miR7991b, stu-miR7991c, stu-miR7992-3p, stu-miR7992-5p, stu-miR7993a, stu-miR7993b-3p, stu-miR7993b-5p, stu-miR7993c, stu-miR7993d, stu-miR7994a, stu-miR7994b-3p, stu-miR7994b-5p, stu-miR7995, stu-miR7996a, stu-miR7996b, stu-miR7996c, stu-miR7997a, stu-miR7997b, stu-miR7997c, stu-miR7998, stu-miR7999-3p, stu-miR7999-5p, stu-miR8000, stu-miR8001a, stu-miR8001b-3p, stu-miR8001b-5p, stu-miR8002-3p, stu-miR8002-5p, stu-miR8003, stu-miR8004, stu-miR8005a, stu-miR8005b-3p, stu-miR8005b-5p, stu-miR8005c, stu-miR8006-3p, stu-miR8006-5p, stu-miR8007a-3p, stu-miR8007a-5p, stu-miR8007b-3p, stu-miR8007b-5p, stu-miR8008a, stu-miR8008b, stu-miR8009, stu-miR8010, stu-miR8011a-3p, stu-miR8011a-5p, stu-miR8011b-3p, stu-miR8011b-5p, stu-miR8012, stu-miR8013, stu-miR8014-3p, stu-miR8014-5p, stu-miR8015-3p, stu-miR8015-5p, stu-miR8016, stu-

miR8017, stu-miR8018, stu-miR8019-3p, stu-miR8019-5p, stu-miR8020, stu-miR8021, stu-miR8022, stu-miR8023, stu-miR8024a-3p, stu-miR8024a-5p, stu-miR8024b, stu-miR8025-3p, stu-miR8025-5p, stu-miR8026, stu-miR8027, stu-miR8028-3p, stu-miR8028-5p, stu-miR8029, stu-miR8030-3p, stu-miR8030-5p, stu-miR8031, stu-miR8032a-3p, stu-miR8032a-5p, stu-miR8032b-3p, stu-miR8032b-5p, stu-miR8032c, stu-miR8032d-3p, stu-miR8032d-5p, stu-miR8032e-3p, stu-miR8032e-5p, stu-miR8032f-3p, stu-miR8032f-5p, stu-miR8032g-3p, stu-miR8032g-5p, stu-miR8033-3p, stu-miR8033-5p, stu-miR8034, stu-miR8035, stu-miR8036-3p, stu-miR8036-5p, stu-miR8037, stu-miR8038a-3p, stu-miR8038a-5p, stu-miR8038b-3p, stu-miR8038b-5p, stu-miR8039, stu-miR8040-3p, stu-miR8040-5p, stu-miR8041a-3p, stu-miR8041a-5p, stu-miR8041b-3p, stu-miR8041b-5p, stu-miR8042, stu-miR8043, stu-miR8044-3p, stu-miR8044-5p, stu-miR8045, stu-miR8046-3p, stu-miR8046-5p, stu-miR8047, stu-miR8048-3p, stu-miR8048-5p, stu-miR8049-3p, stu-miR8049-5p, stu-miR8050-3p, stu-miR8050-5p, stu-miR8051-3p, stu-miR8051-5p, stu-miR827-3p, stu-miR827-5p, sv40-miR-S1-3p, sv40-miR-S1-5p, tae-miR10516, tae-miR10517, tae-miR10518, tae-miR10519, tae-miR10520, tae-miR10521, tae-miR1117, tae-miR1118, tae-miR1119, tae-miR1120a, tae-miR1120b-3p, tae-miR1120c-5p, tae-miR1121, tae-miR1122a, tae-miR1122b-3p, tae-miR1122c-3p, tae-miR1123, tae-miR1124, tae-miR1125, tae-miR1127a, tae-miR1127b-3p, tae-miR1128, tae-miR1129, tae-miR1130a, tae-miR1130b-3p, tae-miR1131, tae-miR1133, tae-miR1134, tae-miR1135, tae-miR1136, tae-miR1137a, tae-miR1137b-5p, tae-miR1138, tae-miR1139, tae-miR156, tae-miR159a, tae-miR159b, tae-miR160, tae-miR164, tae-miR167a, tae-miR167b, tae-miR167c-5p, tae-miR169, tae-miR171a, tae-miR171b, tae-miR1847-5p, tae-miR2275-3p, tae-miR319, tae-miR395a, tae-miR395b, tae-miR396-5p, tae-miR397-5p, tae-miR398, tae-miR399, tae-miR408, tae-miR444a, tae-miR444b, tae-miR5048-5p, tae-miR5049-3p, tae-miR5050, tae-miR5062-5p, tae-miR5084, tae-miR5085, tae-miR5086, tae-miR5175-5p, tae-miR5200, tae-miR530, tae-miR531, tae-miR5384-3p, tae-miR6197-5p, tae-miR6201, tae-miR7757-5p, tae-miR9652-3p, tae-miR9652-5p, tae-miR9653a-3p, tae-miR9653b, tae-miR9654a-3p, tae-miR9654b-3p, tae-miR9655-3p, tae-miR9656-3p, tae-miR9657a-3p, tae-miR9657b-3p, tae-miR9657b-5p, tae-miR9657c-3p, tae-miR9658-3p, tae-miR9659-3p, tae-miR9660-5p, tae-miR9661-5p, tae-miR9662a-3p, tae-miR9662b-3p, tae-miR9663-5p, tae-miR9664-3p, tae-miR9665-3p, tae-miR9666a-3p, tae-miR9666b-3p, tae-miR9666b-5p, tae-miR9666c-5p, tae-miR9667-5p, tae-miR9668-5p, tae-miR9669-5p, tae-miR9670-3p, tae-miR9671-5p, tae-miR9672a-3p, tae-miR9672b, tae-miR9673-5p, tae-miR9674a-5p, tae-miR9674b-5p, tae-miR9675-3p, tae-miR9676-5p, tae-miR9677a, tae-miR9677b, tae-miR9678-3p, tae-miR9679-5p, tae-miR9772,

tae-miR9773, tae-miR9774, tae-miR9775, tae-miR9776, tae-miR9777, tae-miR9778, tae-miR9779, tae-miR9780, tae-miR9781, tae-miR9782, tae-miR9783, tca-bantam-3p, tca-bantam-5p, tca-let-7-3p, tca-let-7-5p, tca-miR-1-3p, tca-miR-1-5p, tca-miR-10-3p, tca-miR-10-5p, tca-miR-100-3p, tca-miR-100-5p, tca-miR-1000-3p, tca-miR-1000-5p, tca-miR-11-3p, tca-miR-11-5p, tca-miR-11614-3p, tca-miR-11614-5p, tca-miR-11615-3p, tca-miR-11615-5p, tca-miR-11617a-3-3p, tca-miR-11617a-3p, tca-miR-11617a-4-3p, tca-miR-11617a-5p, tca-miR-11617b-3p, tca-miR-11617b-5p, tca-miR-11617c-3p, tca-miR-11617c-5p, tca-miR-11617d-5p, tca-miR-11617e-5p, tca-miR-11617f-5p, tca-miR-11618a-3-3p, tca-miR-11618a-3p, tca-miR-11618a-4-5p, tca-miR-11618a-5-3p, tca-miR-11618a-5p, tca-miR-11618b-3-3p, tca-miR-11618b-3p, tca-miR-11618b-4-3p, tca-miR-11618b-5p, tca-miR-11619a-3-3p, tca-miR-11619a-3p, tca-miR-11619a-5p, tca-miR-11619b-3p, tca-miR-11619c-3p, tca-miR-11619c-5p, tca-miR-11619d-3p, tca-miR-11619d-5p, tca-miR-11619e-3p, tca-miR-11619e-5p, tca-miR-11619f-3p, tca-miR-11619f-5p, tca-miR-11620-3p, tca-miR-11620-5p, tca-miR-11621-3p, tca-miR-11621-5p, tca-miR-11622-3p, tca-miR-11622-5p, tca-miR-11623-3p, tca-miR-11623-5p, tca-miR-11624a-3-3p, tca-miR-11624a-3p, tca-miR-11624a-5p, tca-miR-11624b-3p, tca-miR-11624b-5p, tca-miR-11624c-3p, tca-miR-11624c-5p, tca-miR-11624d-3p, tca-miR-11624d-5p, tca-miR-11625a-3p, tca-miR-11625a-5p, tca-miR-11625b-3p, tca-miR-11625b-5p, tca-miR-11626a-3p, tca-miR-11626a-5p, tca-miR-11626b-3p, tca-miR-11626b-5p, tca-miR-11627-3p, tca-miR-11627-5p, tca-miR-11628-3p, tca-miR-11628-5p, tca-miR-11629-3p, tca-miR-11629-5p, tca-miR-11630-3p, tca-miR-11630-5p, tca-miR-11631-3p, tca-miR-11631-5p, tca-miR-11632-3p, tca-miR-11632-5p, tca-miR-11633-3p, tca-miR-11633-5p, tca-miR-11634-3p, tca-miR-11634-5p, tca-miR-11635-3p, tca-miR-11636-3p, tca-miR-11636-5p, tca-miR-11637-5p, tca-miR-11638-3p, tca-miR-11639-3p, tca-miR-11641-5p, tca-miR-11642-3p, tca-miR-11642-5p, tca-miR-11643-3p, tca-miR-11643-5p, tca-miR-11644-3p, tca-miR-11644-5p, tca-miR-11645-5p, tca-miR-11646-3p, tca-miR-11646-5p, tca-miR-11647-3p, tca-miR-11648-3p, tca-miR-11648-5p, tca-miR-11649-3p, tca-miR-11650-3p, tca-miR-1175-3p, tca-miR-1175-5p, tca-miR-12-3p, tca-miR-12-5p, tca-miR-124-3p, tca-miR-124-5p, tca-miR-125-3p, tca-miR-125-5p, tca-miR-133-3p, tca-miR-133-5p, tca-miR-137-3p, tca-miR-137-5p, tca-miR-13a-3p, tca-miR-13a-5p, tca-miR-13b-3p, tca-miR-13b-5p, tca-miR-14-3p, tca-miR-14-5p, tca-miR-184-3p, tca-miR-184-5p, tca-miR-190-3p, tca-miR-190-5p, tca-miR-193-3p, tca-miR-193-5p, tca-miR-2-1-5p, tca-miR-2-2-5p, tca-miR-2-3-5p, tca-miR-2-3p, tca-miR-210-3p, tca-miR-210-5p, tca-miR-219-3p, tca-miR-219-5p, tca-miR-252a-3p, tca-miR-252a-5p, tca-miR-252b-3p, tca-miR-252b-5p, tca-miR-263a-3p, tca-miR-263a-5p, tca-miR-263b-3p, tca-miR-263b-5p, tca-miR-275-3p, tca-miR-275-5p,

tca-miR-276-3p, tca-miR-276-5p, tca-miR-2765-3p, tca-miR-2765-5p, tca-miR-276b-3p, tca-miR-276b-5p, tca-miR-277-3p, tca-miR-277-5p, tca-miR-2788-3p, tca-miR-2788-5p, tca-miR-2796-3p, tca-miR-2796-5p, tca-miR-279a-3p, tca-miR-279a-5p, tca-miR-279b-3p, tca-miR-279b-5p, tca-miR-279c-3p, tca-miR-279c-5p, tca-miR-279d-3p, tca-miR-279d-5p, tca-miR-279e-3p, tca-miR-279e-5p, tca-miR-281-3p, tca-miR-281-5p, tca-miR-282-3p, tca-miR-282-5p, tca-miR-283-3p, tca-miR-283-5p, tca-miR-29-3p, tca-miR-29-5p, tca-miR-2944a-3p, tca-miR-2944a-5p, tca-miR-2944b-3p, tca-miR-2944b-5p, tca-miR-2944c-3p, tca-miR-2944c-5p, tca-miR-304, tca-miR-3049-3p, tca-miR-3049-5p, tca-miR-305-3p, tca-miR-305-5p, tca-miR-307-3p, tca-miR-307-5p, tca-miR-307b-3p, tca-miR-307b-5p, tca-miR-308-3p, tca-miR-308-5p, tca-miR-309a-3p, tca-miR-309a-5p, tca-miR-309b-3p, tca-miR-309b-5p, tca-miR-309c-3p, tca-miR-309c-5p, tca-miR-31-3p, tca-miR-31-5p, tca-miR-315, tca-miR-316-3p, tca-miR-316-5p, tca-miR-317-3p, tca-miR-317-5p, tca-miR-33-3p, tca-miR-33-5p, tca-miR-34-3p, tca-miR-34-5p, tca-miR-3477-3p, tca-miR-3477-5p, tca-miR-375-3p, tca-miR-375-5p, tca-miR-3791-3p, tca-miR-3791-5p, tca-miR-3802-3p, tca-miR-3802-5p, tca-miR-3803-3p, tca-miR-3803-5p, tca-miR-3804a-3p, tca-miR-3804a-5p, tca-miR-3804b-3p, tca-miR-3804b-5p, tca-miR-3805a-3p, tca-miR-3805a-5p, tca-miR-3805b-3p, tca-miR-3805b-5p, tca-miR-3806-3p, tca-miR-3806-5p, tca-miR-3806b-3p, tca-miR-3806b-5p, tca-miR-3806c-3p, tca-miR-3807-3p, tca-miR-3807-5p, tca-miR-3808-3p, tca-miR-3808-5p, tca-miR-3809-3p, tca-miR-3809-5p, tca-miR-3810-3p, tca-miR-3810-5p, tca-miR-3811a-1-5p, tca-miR-3811a-3-5p, tca-miR-3811a-3p, tca-miR-3811a-5-5p, tca-miR-3811a-5p, tca-miR-3811b-3p, tca-miR-3811b-5p, tca-miR-3812-3p, tca-miR-3812-5p, tca-miR-3813-3p, tca-miR-3813-5p, tca-miR-3814-3p, tca-miR-3814-5p, tca-miR-3815-3p, tca-miR-3815-5p, tca-miR-3816-3p, tca-miR-3816-5p, tca-miR-3817-3p, tca-miR-3817-5p, tca-miR-3818-3p, tca-miR-3818-5p, tca-miR-3819-5p, tca-miR-3820-3p, tca-miR-3820-5p, tca-miR-3821-3p, tca-miR-3821-5p, tca-miR-3822-3p, tca-miR-3822-5p, tca-miR-3823-3p, tca-miR-3823-5p, tca-miR-3824-3p, tca-miR-3824-5p, tca-miR-3825-3p, tca-miR-3825-5p, tca-miR-3826-3p, tca-miR-3826-5p, tca-miR-3827-3p, tca-miR-3827-5p, tca-miR-3828-3p, tca-miR-3828-5p, tca-miR-3829-3p, tca-miR-3829-5p, tca-miR-3830-3p, tca-miR-3830-5p, tca-miR-3831-3p, tca-miR-3831-5p, tca-miR-3832-3p, tca-miR-3832-5p, tca-miR-3833-3p, tca-miR-3833-5p, tca-miR-3834-3p, tca-miR-3834-5p, tca-miR-3835-3p, tca-miR-3835-5p, tca-miR-3836a-3p, tca-miR-3836a-5p, tca-miR-3836b-3p, tca-miR-3836b-5p, tca-miR-3836c-1-3p, tca-miR-3836c-2-3p, tca-miR-3836c-3-5p, tca-miR-3836c-3p, tca-miR-3836c-5p, tca-miR-3836d-3p, tca-miR-3836d-5p, tca-miR-3836e-3p, tca-miR-3836e-5p, tca-miR-3836f-3p, tca-miR-3836f-5p, tca-miR-3836g-3p, tca-miR-3836g-5p, tca-miR-3836h-3p, tca-miR-3836i-3p, tca-miR-3836i-

5p, tca-miR-3836j-3p, tca-miR-3837-3p, tca-miR-3837-5p, tca-miR-3838-3p, tca-miR-3838-5p, tca-miR-3839-3p, tca-miR-3839-5p, tca-miR-3840-3p, tca-miR-3840-5p, tca-miR-3841-3p, tca-miR-3841-5p, tca-miR-3842-3p, tca-miR-3842-5p, tca-miR-3843-3p, tca-miR-3843-5p, tca-miR-3844-3p, tca-miR-3844-5p, tca-miR-3845-3p, tca-miR-3845-5p, tca-miR-3846-3p, tca-miR-3846-5p, tca-miR-3847-3p, tca-miR-3847-5p, tca-miR-3848-3p, tca-miR-3848-5p, tca-miR-3849-3p, tca-miR-3849-5p, tca-miR-3850-3p, tca-miR-3850-5p, tca-miR-3851a-3p, tca-miR-3851a-5p, tca-miR-3851b-3p, tca-miR-3851b-5p, tca-miR-3851c-3p, tca-miR-3851c-5p, tca-miR-3851d-2-5p, tca-miR-3851d-3p, tca-miR-3851d-5p, tca-miR-3851e-3p, tca-miR-3851e-5p, tca-miR-3851f-3p, tca-miR-3851f-5p, tca-miR-3851g-2-3p, tca-miR-3851g-3p, tca-miR-3851g-5p, tca-miR-3851h-3p, tca-miR-3851h-5p, tca-miR-3851i-3p, tca-miR-3851i-5p, tca-miR-3851j-3p, tca-miR-3851j-5p, tca-miR-3851k-3p, tca-miR-3851k-5p, tca-miR-3851l-2-3p, tca-miR-3851l-3-5p, tca-miR-3851l-3p, tca-miR-3851l-4-3p, tca-miR-3851l-5p, tca-miR-3851m-3p, tca-miR-3851m-4-3p, tca-miR-3851m-5p, tca-miR-3851n-3p, tca-miR-3851n-5p, tca-miR-3851o-2-5p, tca-miR-3851o-3p, tca-miR-3851o-5p, tca-miR-3851p-3p, tca-miR-3851p-5p, tca-miR-3851q-3p, tca-miR-3851q-5p, tca-miR-3851r-3p, tca-miR-3851r-5p, tca-miR-3852-3p, tca-miR-3852-5p, tca-miR-3853-3p, tca-miR-3853-5p, tca-miR-3854-3p, tca-miR-3854-5p, tca-miR-3855-3p, tca-miR-3855-5p, tca-miR-3856-3p, tca-miR-3856-5p, tca-miR-3857-3p, tca-miR-3857-5p, tca-miR-3858-3p, tca-miR-3858-5p, tca-miR-3858a-3p, tca-miR-3858a-5p, tca-miR-3858b-3p, tca-miR-3858b-5p, tca-miR-3859-3p, tca-miR-3859-5p, tca-miR-3860-3p, tca-miR-3860-5p, tca-miR-3861-3p, tca-miR-3861-5p, tca-miR-3862-3p, tca-miR-3862-5p, tca-miR-3863-3p, tca-miR-3863-5p, tca-miR-3864-3p, tca-miR-3864-5p, tca-miR-3865-3p, tca-miR-3865-5p, tca-miR-3866-3p, tca-miR-3866-5p, tca-miR-3867-3p, tca-miR-3867-5p, tca-miR-3868-3p, tca-miR-3868-5p, tca-miR-3869-3p, tca-miR-3869-5p, tca-miR-3870-3p, tca-miR-3870-5p, tca-miR-3871-3p, tca-miR-3871-5p, tca-miR-3872-3p, tca-miR-3872-5p, tca-miR-3873-3p, tca-miR-3873-5p, tca-miR-3874-3p, tca-miR-3874-5p, tca-miR-3875-3p, tca-miR-3875-5p, tca-miR-3876-3p, tca-miR-3876-5p, tca-miR-3877-3p, tca-miR-3877-5p, tca-miR-3878-3p, tca-miR-3878-5p, tca-miR-3879-3p, tca-miR-3879-5p, tca-miR-3880-3p, tca-miR-3880-5p, tca-miR-3881-3p, tca-miR-3881-5p, tca-miR-3882-3p, tca-miR-3882-5p, tca-miR-3883-3p, tca-miR-3883-5p, tca-miR-3884-3p, tca-miR-3884-5p, tca-miR-3885-3p, tca-miR-3885-5p, tca-miR-3886-3p, tca-miR-3886-5p, tca-miR-3887-3p, tca-miR-3887-5p, tca-miR-3888-3p, tca-miR-3888-5p, tca-miR-3889-3p, tca-miR-3889-5p, tca-miR-3890-3p, tca-miR-3890-5p, tca-miR-3891-3p, tca-miR-3891-5p, tca-miR-3892-3p, tca-miR-3892-5p, tca-miR-3893-3p, tca-miR-3893-5p, tca-miR-3894-3p, tca-miR-3894-5p, tca-miR-3895-3p, tca-miR-3895-5p, tca-miR-3896-3p, tca-miR-3896-5p,

tca-miR-3897-3p, tca-miR-3897-5p, tca-miR-3898-3p, tca-miR-3898-5p, tca-miR-3899-3p, tca-miR-3899-5p, tca-miR-3900-3p, tca-miR-3900-5p, tca-miR-3901-3p, tca-miR-3901-5p, tca-miR-3902-3p, tca-miR-3902-5p, tca-miR-3903-3p, tca-miR-3904-3p, tca-miR-3904-5p, tca-miR-3905-5p, tca-miR-6007-3p, tca-miR-6007-5p, tca-miR-6008-3p, tca-miR-6008-5p, tca-miR-6009-3p, tca-miR-6009-5p, tca-miR-6010-3p, tca-miR-6010-5p, tca-miR-6011-3p, tca-miR-6011-5p, tca-miR-6012-3p, tca-miR-6012-5p, tca-miR-6013-3p, tca-miR-6013-5p, tca-miR-6014-3p, tca-miR-6014-5p, tca-miR-6015-3p, tca-miR-6015-5p, tca-miR-6016-3p, tca-miR-6016-5p, tca-miR-6016b-3p, tca-miR-6016b-5p, tca-miR-6017-3p, tca-miR-6017-5p, tca-miR-6018-3p, tca-miR-6018-5p, tca-miR-7-3p, tca-miR-7-5p, tca-miR-71-3p, tca-miR-71-5p, tca-miR-750-3p, tca-miR-750-5p, tca-miR-8-3p, tca-miR-8-5p, tca-miR-87a-3p, tca-miR-87a-5p, tca-miR-87b-3p, tca-miR-87b-5p, tca-miR-927a-3p, tca-miR-927a-5p, tca-miR-927b-3p, tca-miR-927b-5p, tca-miR-927c-3p, tca-miR-927c-5p, tca-miR-929-3p, tca-miR-929-5p, tca-miR-92a-3p, tca-miR-92a-5p, tca-miR-92b-3p, tca-miR-92b-5p, tca-miR-92c-3p, tca-miR-92c-5p, tca-miR-932-3p, tca-miR-932-5p, tca-miR-965-3p, tca-miR-965-5p, tca-miR-970-3p, tca-miR-970-5p, tca-miR-971b-3p, tca-miR-971b-5p, tca-miR-980-3p, tca-miR-980-5p, tca-miR-981, tca-miR-989-3p, tca-miR-989-5p, tca-miR-993-3p, tca-miR-993-5p, tca-miR-995-3p, tca-miR-995-5p, tca-miR-998-3p, tca-miR-998-5p, tca-miR-9a-3p, tca-miR-9a-5p, tca-miR-9b-3p, tca-miR-9b-5p, tca-miR-9c-3p, tca-miR-9c-5p, tca-miR-9d-3p, tca-miR-9d-5p, tca-miR-9e-3p, tca-miR-9e-5p, tca-miR-iab-4-3p, tca-miR-iab-4-5p, tca-miR-iab-8-3p, tca-miR-iab-8-5p, tcc-miR156a, tcc-miR156b, tcc-miR156c, tcc-miR156d, tcc-miR156e, tcc-miR156f, tcc-miR156g, tcc-miR160a, tcc-miR160b, tcc-miR160c, tcc-miR162, tcc-miR164a, tcc-miR164b, tcc-miR164c, tcc-miR166a, tcc-miR166b, tcc-miR166c, tcc-miR166d, tcc-miR167a, tcc-miR167b, tcc-miR167c, tcc-miR168, tcc-miR169a, tcc-miR169b, tcc-miR169c, tcc-miR169d, tcc-miR169e, tcc-miR169f, tcc-miR169g, tcc-miR169h, tcc-miR169i, tcc-miR169j, tcc-miR169k, tcc-miR169l, tcc-miR169m, tcc-miR169n, tcc-miR171a, tcc-miR171b, tcc-miR171c, tcc-miR171d, tcc-miR171e, tcc-miR171f, tcc-miR171g, tcc-miR171h, tcc-miR172a, tcc-miR172b, tcc-miR172c, tcc-miR172d, tcc-miR172e, tcc-miR2111, tcc-miR319, tcc-miR390a, tcc-miR390b, tcc-miR393a, tcc-miR393b, tcc-miR394a, tcc-miR394b, tcc-miR395a, tcc-miR395b, tcc-miR396a, tcc-miR396b, tcc-miR396c, tcc-miR396d, tcc-miR396e, tcc-miR397, tcc-miR398a, tcc-miR398b, tcc-miR399a, tcc-miR399b, tcc-miR399c, tcc-miR399d, tcc-miR399e, tcc-miR399f, tcc-miR399g, tcc-miR399h, tcc-miR399i, tcc-miR403a, tcc-miR403b, tcc-miR530a, tcc-miR530b, tcc-miR535, tcc-miR827, tcf-bantam, tcf-let-7-3p, tcf-let-7-5p, tcf-miR-1, tcf-miR-10-3p, tcf-miR-10-5p, tcf-miR-100, tcf-miR-10294, tcf-miR-10295, tcf-miR-

10296, tcf-miR-10297, tcf-miR-10298a, tcf-miR-10298b, tcf-miR-10299, tcf-miR-10300, tcf-miR-10301, tcf-miR-10302, tcf-miR-10303a, tcf-miR-10303b, tcf-miR-10304, tcf-miR-10305, tcf-miR-10306, tcf-miR-10307, tcf-miR-10308, tcf-miR-10309, tcf-miR-10310, tcf-miR-10311, tcf-miR-10312, tcf-miR-10313, tcf-miR-10314, tcf-miR-10315a, tcf-miR-10315b, tcf-miR-10316a, tcf-miR-10316b, tcf-miR-10316c, tcf-miR-10317, tcf-miR-10318, tcf-miR-10319, tcf-miR-10320, tcf-miR-10321, tcf-miR-10322, tcf-miR-10323, tcf-miR-10324, tcf-miR-10325, tcf-miR-10326, tcf-miR-10327, tcf-miR-10328, tcf-miR-10329, tcf-miR-10330, tcf-miR-10331, tcf-miR-10332, tcf-miR-10333, tcf-miR-10334, tcf-miR-10335, tcf-miR-10336, tcf-miR-10337, tcf-miR-10338, tcf-miR-10339, tcf-miR-10340, tcf-miR-10341, tcf-miR-10342, tcf-miR-10343, tcf-miR-10344, tcf-miR-10345, tcf-miR-10346, tcf-miR-10347, tcf-miR-10348, tcf-miR-10349, tcf-miR-10350, tcf-miR-10351, tcf-miR-10352, tcf-miR-10353, tcf-miR-10354, tcf-miR-10402, tcf-miR-10403, tcf-miR-1175-3p, tcf-miR-1175-5p, tcf-miR-12, tcf-miR-124-3p, tcf-miR-124-5p, tcf-miR-125, tcf-miR-13, tcf-miR-133, tcf-miR-137, tcf-miR-153-3p, tcf-miR-153-5p, tcf-miR-184-3p, tcf-miR-184-5p, tcf-miR-190, tcf-miR-193, tcf-miR-210-3p, tcf-miR-210-5p, tcf-miR-219, tcf-miR-252a-3p, tcf-miR-252a-5p, tcf-miR-252b, tcf-miR-263a, tcf-miR-263b, tcf-miR-275, tcf-miR-276-3p, tcf-miR-276-5p, tcf-miR-277, tcf-miR-278, tcf-miR-2788, tcf-miR-279a, tcf-miR-279b, tcf-miR-279c, tcf-miR-279d, tcf-miR-279e, tcf-miR-279f, tcf-miR-281-3p, tcf-miR-281-5p, tcf-miR-282, tcf-miR-283, tcf-miR-285, tcf-miR-2944a, tcf-miR-2944b, tcf-miR-2a-3p, tcf-miR-2a-5p, tcf-miR-2b, tcf-miR-305, tcf-miR-307, tcf-miR-309, tcf-miR-31, tcf-miR-315-3p, tcf-miR-315-5p, tcf-miR-316, tcf-miR-317, tcf-miR-318, tcf-miR-33, tcf-miR-34, tcf-miR-3477, tcf-miR-375, tcf-miR-3791, tcf-miR-7, tcf-miR-71-3p, tcf-miR-71-5p, tcf-miR-745, tcf-miR-750, tcf-miR-79, tcf-miR-8-3p, tcf-miR-8-5p, tcf-miR-87, tcf-miR-87b, tcf-miR-92a, tcf-miR-92b, tcf-miR-96, tcf-miR-965, tcf-miR-981, tcf-miR-993-3p, tcf-miR-993-5p, tcf-miR-995, tcf-miR-996, tcf-miR-998, tcf-miR-9a-3p, tcf-miR-9a-5p, tcf-miR-9b-3p, tcf-miR-9b-5p, tcf-miR-iab-4, tcf-miR-iab-8, tch-let-7a-3p, tch-let-7a-5p, tch-let-7e-5p, tch-let-7f-5p, tch-let-7g-5p, tch-let-7i-5p, tch-miR-100-5p, tch-miR-101, tch-miR-103a-3p, tch-miR-107, tch-miR-10b-5p, tch-miR-122-5p, tch-miR-1247-5p, tch-miR-125a-5p, tch-miR-125b-5p, tch-miR-127-3p, tch-miR-1277-5p, tch-miR-128, tch-miR-129-5p, tch-miR-1301, tch-miR-1306-3p, tch-miR-1306-5p, tch-miR-130a-3p, tch-miR-135a-5p, tch-miR-135b-5p, tch-miR-136-5p, tch-miR-139-5p, tch-miR-140-5p, tch-miR-141-3p, tch-miR-142, tch-miR-143-3p, tch-miR-146a-5p, tch-miR-147b, tch-miR-148a-3p, tch-miR-148b-3p, tch-miR-152, tch-miR-155-5p, tch-miR-15a-5p, tch-miR-15b-5p, tch-miR-17-5p, tch-miR-181a-5p, tch-miR-181b-5p, tch-miR-181c-5p, tch-miR-181d, tch-miR-183-5p, tch-miR-184, tch-miR-185-5p, tch-

miR-186-5p, tch-miR-188-3p, tch-miR-188-5p, tch-miR-190a, tch-miR-190b, tch-miR-191-5p, tch-miR-192-5p, tch-miR-193a-3p, tch-miR-193b-3p, tch-miR-194-5p, tch-miR-195-5p, tch-miR-196a-5p, tch-miR-199a-3p, tch-miR-199b-3p, tch-miR-19a-3p, tch-miR-19b-3p, tch-miR-200a-3p, tch-miR-200b-3p, tch-miR-200c-3p, tch-miR-20a-5p, tch-miR-21-5p, tch-miR-210, tch-miR-218-5p, tch-miR-219-5p, tch-miR-22-3p, tch-miR-221-3p, tch-miR-222-3p, tch-miR-23b-3p, tch-miR-25-3p, tch-miR-26a-2-5p, tch-miR-26a-5p, tch-miR-26b-5p, tch-miR-27a-3p, tch-miR-27b-3p, tch-miR-28-5p, tch-miR-296-3p, tch-miR-29a-3p, tch-miR-29b-3p, tch-miR-29c-3p, tch-miR-30a-5p, tch-miR-30b-5p, tch-miR-30c-5p, tch-miR-32-5p, tch-miR-324-5p, tch-miR-326, tch-miR-328, tch-miR-330-3p, tch-miR-335-5p, tch-miR-33a-5p, tch-miR-342-3p, tch-miR-34a-5p, tch-miR-34c-5p, tch-miR-361-5p, tch-miR-363-3p, tch-miR-365a-3p, tch-miR-365b-3p, tch-miR-369-3p, tch-miR-374a-5p, tch-miR-374b-5p, tch-miR-376a-3p, tch-miR-376b-3p, tch-miR-376c-3p, tch-miR-378a-3p, tch-miR-381-3p, tch-miR-409-3p, tch-miR-411-5p, tch-miR-423-3p, tch-miR-424-5p, tch-miR-425-5p, tch-miR-432-5p, tch-miR-450a-5p, tch-miR-455-3p, tch-miR-486-3p, tch-miR-491-5p, tch-miR-497-5p, tch-miR-499a-5p, tch-miR-503, tch-miR-504, tch-miR-505-3p, tch-miR-532-5p, tch-miR-539-3p, tch-miR-542-3p, tch-miR-592, tch-miR-628-5p, tch-miR-652-3p, tch-miR-6529, tch-miR-656, tch-miR-671-5p, tch-miR-7-5p, tch-miR-708-5p, tch-miR-885-3p, tch-miR-9-5p, tch-miR-92a-3p, tch-miR-93-5p, tch-miR-95, tch-miR-9770, tch-miR-9771a, tch-miR-9771b, tch-miR-9771c, tch-miR-9771d, tch-miR-9771e, tch-miR-9771f, tch-miR-9771g, tch-miR-9771h, tch-miR-9771i, tch-miR-9771j, tch-miR-9771k, tch-miR-9771l, tch-miR-9771m, tch-miR-9771n, tch-miR-9771o, tch-miR-9771p, tch-miR-98-5p, tch-miR-99a-5p, tch-miR-99b-5p, tgu-let-7a-1-3p, tgu-let-7a-2-3p, tgu-let-7a-4-3p, tgu-let-7a-5p, tgu-let-7b-3p, tgu-let-7b-5p, tgu-let-7c-3p, tgu-let-7c-5p, tgu-let-7d-3p, tgu-let-7d-5p, tgu-let-7e-3p, tgu-let-7e-5p, tgu-let-7f-3p, tgu-let-7f-5p, tgu-let-7g-3p, tgu-let-7g-5p, tgu-let-7i-3p, tgu-let-7i-5p, tgu-miR-1-1-5p, tgu-miR-1-2-5p, tgu-miR-1-3p, tgu-miR-100-3p, tgu-miR-100-5p, tgu-miR-101-1-5p, tgu-miR-101-2-5p, tgu-miR-101-3p, tgu-miR-103-3p, tgu-miR-103-5p, tgu-miR-106-3p, tgu-miR-106-5p, tgu-miR-107, tgu-miR-10a-3p, tgu-miR-10a-5p, tgu-miR-122-3p, tgu-miR-122-5p, tgu-miR-124-3p, tgu-miR-124-5p, tgu-miR-125-1-3p, tgu-miR-125-2-3p, tgu-miR-125-5p, tgu-miR-126-3p, tgu-miR-126-5p, tgu-miR-128-1-5p, tgu-miR-128-2-5p, tgu-miR-128-3p, tgu-miR-129-3p, tgu-miR-129-5p, tgu-miR-130a-3p, tgu-miR-130a-5p, tgu-miR-130b-3p, tgu-miR-130b-5p, tgu-miR-130c-3p, tgu-miR-130c-5p, tgu-miR-132, tgu-miR-1329-3p, tgu-miR-1329-5p, tgu-miR-133-3p, tgu-miR-133-5p, tgu-miR-135a-1-3p, tgu-miR-135a-2-3p, tgu-miR-135a-5p, tgu-miR-135b, tgu-miR-137-3p, tgu-miR-137-5p, tgu-miR-138-1-3p, tgu-miR-138-2-3p, tgu-miR-138-5p, tgu-miR-1388-3p, tgu-miR-1388-5p,

tgu-miR-139-3p, tgu-miR-139-5p, tgu-miR-1397-3p, tgu-miR-1397-5p, tgu-miR-140-3p, tgu-miR-140-5p, tgu-miR-142-3p, tgu-miR-142-5p, tgu-miR-144-3p, tgu-miR-144-5p, tgu-miR-1451-3p, tgu-miR-1451-5p, tgu-miR-1460, tgu-miR-1467-3p, tgu-miR-1467-5p, tgu-miR-146a-3p, tgu-miR-146a-5p, tgu-miR-146b-3p, tgu-miR-146b-5p, tgu-miR-146c, tgu-miR-147, tgu-miR-148a-3p, tgu-miR-148a-5p, tgu-miR-148b, tgu-miR-153-1-5p, tgu-miR-153-2-5p, tgu-miR-153-3p, tgu-miR-155-3p, tgu-miR-155-5p, tgu-miR-1559, tgu-miR-15a-3p, tgu-miR-15a-5p, tgu-miR-15b-3p, tgu-miR-15b-5p, tgu-miR-15c-3p, tgu-miR-15c-5p, tgu-miR-1641, tgu-miR-1662, tgu-miR-1669, tgu-miR-1677-3p, tgu-miR-1677-5p, tgu-miR-16a-3p, tgu-miR-16a-5p, tgu-miR-16b-3p, tgu-miR-16b-5p, tgu-miR-16c, tgu-miR-1729-3p, tgu-miR-1729-5p, tgu-miR-1743, tgu-miR-1744, tgu-miR-1756, tgu-miR-1759, tgu-miR-1781, tgu-miR-1784-3p, tgu-miR-1784-5p, tgu-miR-1788, tgu-miR-1789, tgu-miR-1791, tgu-miR-17a-3p, tgu-miR-17a-5p, tgu-miR-1803-3p, tgu-miR-1803-5p, tgu-miR-1805-3p, tgu-miR-1805-5p, tgu-miR-181a-1-3p, tgu-miR-181a-2-3p, tgu-miR-181a-5p, tgu-miR-181b-1-3p, tgu-miR-181b-2-3p, tgu-miR-181b-5p, tgu-miR-183, tgu-miR-184, tgu-miR-187-3p, tgu-miR-187-5p, tgu-miR-18a, tgu-miR-18b, tgu-miR-190-3p, tgu-miR-190-5p, tgu-miR-192, tgu-miR-193a-3p, tgu-miR-193a-5p, tgu-miR-193b-3p, tgu-miR-193b-5p, tgu-miR-194-3p, tgu-miR-194-5p, tgu-miR-196, tgu-miR-199-3p, tgu-miR-199-5p, tgu-miR-19a-3p, tgu-miR-19a-5p, tgu-miR-19b-1-5p, tgu-miR-19b-2-5p, tgu-miR-19b-3p, tgu-miR-200a-3p, tgu-miR-200a-5p, tgu-miR-200b-3p, tgu-miR-200b-5p, tgu-miR-202, tgu-miR-203-3p, tgu-miR-203-5p, tgu-miR-204, tgu-miR-205, tgu-miR-20a-3p, tgu-miR-20a-5p, tgu-miR-20b-3p, tgu-miR-20b-5p, tgu-miR-21-3p, tgu-miR-21-5p, tgu-miR-2131, tgu-miR-214-3p, tgu-miR-214-5p, tgu-miR-215-3p, tgu-miR-215-5p, tgu-miR-216a-3p, tgu-miR-216a-5p, tgu-miR-216b-3p, tgu-miR-216b-5p, tgu-miR-217-3p, tgu-miR-217-5p, tgu-miR-218-3p, tgu-miR-218-5p, tgu-miR-2188-3p, tgu-miR-2188-5p, tgu-miR-219a, tgu-miR-219b, tgu-miR-221-3p, tgu-miR-221-5p, tgu-miR-222-3p, tgu-miR-222-5p, tgu-miR-223, tgu-miR-23-3p, tgu-miR-23-5p, tgu-miR-24-3p, tgu-miR-24-5p, tgu-miR-25, tgu-miR-26-3p, tgu-miR-26-5p, tgu-miR-27-3p, tgu-miR-27-5p, tgu-miR-2954-3p, tgu-miR-2954-5p, tgu-miR-2955-3p, tgu-miR-2955-5p, tgu-miR-2956, tgu-miR-2958, tgu-miR-2959, tgu-miR-2960, tgu-miR-2961, tgu-miR-2962-3p, tgu-miR-2962-5p, tgu-miR-2963-3p, tgu-miR-2963-5p, tgu-miR-2965, tgu-miR-2966, tgu-miR-2967, tgu-miR-2968, tgu-miR-2969, tgu-miR-2970-3p, tgu-miR-2970-5p, tgu-miR-2971, tgu-miR-2972, tgu-miR-2973-3p, tgu-miR-2973-5p, tgu-miR-2974, tgu-miR-2975, tgu-miR-2976, tgu-miR-2977, tgu-miR-2978, tgu-miR-2979-3p, tgu-miR-2979-5p, tgu-miR-2980, tgu-miR-2981, tgu-miR-2982, tgu-miR-2983, tgu-miR-2984-3p, tgu-miR-2984-5p, tgu-miR-2985, tgu-miR-2986, tgu-miR-2987-3p, tgu-miR-2987-5p, tgu-miR-2988,

tgu-miR-2989, tgu-miR-2991, tgu-miR-2992, tgu-miR-2993, tgu-miR-2994, tgu-miR-2995, tgu-miR-2996, tgu-miR-2997-3p, tgu-miR-2997-5p, tgu-miR-29a-1-5p, tgu-miR-29a-2-5p, tgu-miR-29a-3p, tgu-miR-29b-1-5p, tgu-miR-29b-2-5p, tgu-miR-29b-3p, tgu-miR-301-3p, tgu-miR-301-5p, tgu-miR-30a-3p, tgu-miR-30a-5p, tgu-miR-30b-3p, tgu-miR-30b-5p, tgu-miR-30c-3p, tgu-miR-30c-5p, tgu-miR-30d-3p, tgu-miR-30d-5p, tgu-miR-30e, tgu-miR-31, tgu-miR-32, tgu-miR-33-3p, tgu-miR-33-5p, tgu-miR-338-3p, tgu-miR-338-5p, tgu-miR-34a, tgu-miR-34b, tgu-miR-34c-3p, tgu-miR-34c-5p, tgu-miR-363-3p, tgu-miR-363-5p, tgu-miR-365-1-5p, tgu-miR-365-2-5p, tgu-miR-365-3p, tgu-miR-367, tgu-miR-375, tgu-miR-383-3p, tgu-miR-383-5p, tgu-miR-425-3p, tgu-miR-425-5p, tgu-miR-451, tgu-miR-454-3p, tgu-miR-454-5p, tgu-miR-455-3p, tgu-miR-455-5p, tgu-miR-456-3p, tgu-miR-456-5p, tgu-miR-458-3p, tgu-miR-458-5p, tgu-miR-460a-3p, tgu-miR-460a-5p, tgu-miR-460b-3p, tgu-miR-460b-5p, tgu-miR-489-3p, tgu-miR-489-5p, tgu-miR-490-3p, tgu-miR-490-5p, tgu-miR-499-3p, tgu-miR-499-5p, tgu-miR-551-3p, tgu-miR-551-5p, tgu-miR-7-1-3p, tgu-miR-7-4-3p, tgu-miR-7-5p, tgu-miR-7643-3p, tgu-miR-7643-5p, tgu-miR-7644-3p, tgu-miR-7644-5p, tgu-miR-7645-3p, tgu-miR-7645-5p, tgu-miR-9-3p, tgu-miR-9-5p, tgu-miR-92-1-5p, tgu-miR-92-2-5p, tgu-miR-92-3p, tgu-miR-99-3p, tgu-miR-99-5p, tni-let-7a, tni-let-7b, tni-let-7d, tni-let-7e, tni-let-7g, tni-let-7h, tni-let-7i, tni-let-7j, tni-miR-1, tni-miR-100, tni-miR-101a, tni-miR-101b, tni-miR-103, tni-miR-107, tni-miR-10b, tni-miR-10c, tni-miR-10d, tni-miR-122, tni-miR-124, tni-miR-125a, tni-miR-125b, tni-miR-126, tni-miR-128, tni-miR-129, tni-miR-130, tni-miR-132, tni-miR-133, tni-miR-135a, tni-miR-135b, tni-miR-137, tni-miR-138, tni-miR-140, tni-miR-142a, tni-miR-142b, tni-miR-144, tni-miR-148, tni-miR-152, tni-miR-153a, tni-miR-153b, tni-miR-15a, tni-miR-15b, tni-miR-16, tni-miR-17, tni-miR-18, tni-miR-181a-3p, tni-miR-181a-5p, tni-miR-181b, tni-miR-182, tni-miR-183, tni-miR-184, tni-miR-187, tni-miR-190, tni-miR-192, tni-miR-193, tni-miR-194, tni-miR-196a, tni-miR-196b, tni-miR-199, tni-miR-19a, tni-miR-19b, tni-miR-20, tni-miR-200a, tni-miR-200b, tni-miR-202, tni-miR-203, tni-miR-204a, tni-miR-204b, tni-miR-205, tni-miR-21, tni-miR-210, tni-miR-212, tni-miR-214, tni-miR-216a, tni-miR-216b, tni-miR-217, tni-miR-218a, tni-miR-218b, tni-miR-219, tni-miR-221, tni-miR-222, tni-miR-223, tni-miR-22a, tni-miR-22b, tni-miR-23a, tni-miR-23b, tni-miR-24, tni-miR-25, tni-miR-26, tni-miR-27b, tni-miR-27c, tni-miR-27e, tni-miR-29a, tni-miR-29b, tni-miR-301, tni-miR-30b, tni-miR-30c, tni-miR-30d, tni-miR-338, tni-miR-365, tni-miR-375, tni-miR-429, tni-miR-455, tni-miR-458, tni-miR-460, tni-miR-489, tni-miR-7, tni-miR-9, tni-miR-92, tni-miR-96, tre-miR-5045, ttu-miR160, ttv-miR-T1-3p, ttv-miR-T1-5p, tur-miR-1-3p, tur-miR-1-5p, tur-miR-10-3p, tur-miR-10-5p, tur-miR-124-1-5p, tur-miR-124-2-5p, tur-miR-124-3p, tur-miR-12a-3p, tur-miR-12a-5p, tur-

miR-12b-3p, tur-miR-12b-5p, tur-miR-133-3p, tur-miR-133-5p, tur-miR-137-3p, tur-miR-137-5p, tur-miR-184-3p, tur-miR-184-5p, tur-miR-190-3p, tur-miR-190-5p, tur-miR-2-3p, tur-miR-2-5p, tur-miR-210-3p, tur-miR-210-5p, tur-miR-252-3p, tur-miR-252-5p, tur-miR-263a-3p, tur-miR-263a-5p, tur-miR-263b-3p, tur-miR-263b-5p, tur-miR-276-3p, tur-miR-276-5p, tur-miR-278-3p, tur-miR-278-5p, tur-miR-279-3p, tur-miR-279-5p, tur-miR-281-3p, tur-miR-281-5p, tur-miR-305-3p, tur-miR-305-5p, tur-miR-307-3p, tur-miR-307-5p, tur-miR-317-3p, tur-miR-317-5p, tur-miR-34-3p, tur-miR-34-5p, tur-miR-3931-3p, tur-miR-3931-5p, tur-miR-5727-3p, tur-miR-5727-5p, tur-miR-5728-1-5p, tur-miR-5728-2-5p, tur-miR-5728-3p, tur-miR-5729a-3p, tur-miR-5729a-5p, tur-miR-5729b-3p, tur-miR-5729b-5p, tur-miR-5730-3p, tur-miR-5730-5p, tur-miR-5731-3p, tur-miR-5731-5p, tur-miR-5732-3p, tur-miR-5732-5p, tur-miR-5733-3p, tur-miR-5733-5p, tur-miR-5734-3p, tur-miR-5734-5p, tur-miR-5735-3p, tur-miR-5735-5p, tur-miR-5736a-3p, tur-miR-5736a-5p, tur-miR-5736b-3p, tur-miR-5736b-5p, tur-miR-5737-3p, tur-miR-5737-5p, tur-miR-5738-3p, tur-miR-5738-5p, tur-miR-7-3p, tur-miR-7-5p, tur-miR-71-3p, tur-miR-71-5p, tur-miR-745-3p, tur-miR-745-5p, tur-miR-87-3p, tur-miR-87-5p, tur-miR-9-3p, tur-miR-9-5p, tur-miR-92-3p, tur-miR-92-5p, tur-miR-993a-3p, tur-miR-993a-5p, tur-miR-993b-3p, tur-miR-993b-5p, vca-miR10202a-3p, vca-miR10202a-5p, vca-miR10202b-3p, vca-miR10202b-5p, vca-miR10203-3p, vca-miR10203-5p, vca-miR10204-3p, vca-miR10204-5p, vca-miR10205-3p, vca-miR10205-5p, vca-miR10206a-3p, vca-miR10206a-5p, vca-miR10206b-3p, vca-miR10206b-5p, vca-miR10207-3p, vca-miR10207-5p, vca-miR10208-3p, vca-miR10208-5p, vca-miR10209-3p, vca-miR10209-5p, vca-miR10210-3p, vca-miR10210-5p, vca-miR1432-3p, vca-miR1432-5p, vca-miR156a-3p, vca-miR156a-5p, vca-miR156b-3p, vca-miR156b-5p, vca-miR159-3p, vca-miR159-5p, vca-miR160-5p, vca-miR166a-3p, vca-miR166a-5p, vca-miR166b-3p, vca-miR166b-5p, vca-miR166c-3p, vca-miR166c-5p, vca-miR167a-3p, vca-miR167a-5p, vca-miR167b-3p, vca-miR167b-5p, vca-miR168a-3p, vca-miR168a-5p, vca-miR168b-3p, vca-miR168b-5p, vca-miR172a-3p, vca-miR172a-5p, vca-miR172b-3p, vca-miR172b-5p, vca-miR391-3p, vca-miR391-5p, vca-miR393-3p, vca-miR393-5p, vca-miR396-3p, vca-miR396-5p, vca-miR396b-3p, vca-miR396b-5p, vca-miR397-3p, vca-miR397-5p, vca-miR408-3p, vca-miR408-5p, vca-miR528-3p, vca-miR528-5p, vca-miR535-3p, vca-miR535-5p, vun-miR1507a, vun-miR1507b, vun-miR156a, vun-miR156b, vun-miR160, vun-miR162, vun-miR164, vun-miR168, vun-miR169, vun-miR172, vun-miR2118, vun-miR319a, vun-miR319b, vun-miR395, vun-miR399a, vun-miR399b, vun-miR408, vun-miR482, vvi-miR156a, vvi-miR156b, vvi-miR156c, vvi-miR156d, vvi-miR156e, vvi-miR156f, vvi-miR156g, vvi-miR156h, vvi-miR156i, vvi-miR159a, vvi-miR159b, vvi-

miR159c, vvi-miR160a, vvi-miR160b, vvi-miR160c, vvi-miR160d, vvi-miR160e, vvi-miR162, vvi-miR164a, vvi-miR164b, vvi-miR164c, vvi-miR164d, vvi-miR166a, vvi-miR166b, vvi-miR166c, vvi-miR166d, vvi-miR166e, vvi-miR166f, vvi-miR166g, vvi-miR166h, vvi-miR167a, vvi-miR167b, vvi-miR167c, vvi-miR167d, vvi-miR167e, vvi-miR168, vvi-miR169a, vvi-miR169b, vvi-miR169c, vvi-miR169d, vvi-miR169e, vvi-miR169f, vvi-miR169g, vvi-miR169h, vvi-miR169i, vvi-miR169j, vvi-miR169k, vvi-miR169l, vvi-miR169m, vvi-miR169n, vvi-miR169o, vvi-miR169p, vvi-miR169q, vvi-miR169r, vvi-miR169s, vvi-miR169t, vvi-miR169u, vvi-miR169v, vvi-miR169w, vvi-miR169x, vvi-miR169y, vvi-miR171a, vvi-miR171b, vvi-miR171c, vvi-miR171d, vvi-miR171e, vvi-miR171f, vvi-miR171g, vvi-miR171h, vvi-miR171i, vvi-miR171j, vvi-miR172a, vvi-miR172b, vvi-miR172c, vvi-miR172d, vvi-miR2111-3p, vvi-miR2111-5p, vvi-miR2950-3p, vvi-miR2950-5p, vvi-miR319b, vvi-miR319c, vvi-miR319e, vvi-miR319f, vvi-miR319g, vvi-miR3623-3p, vvi-miR3623-5p, vvi-miR3624-3p, vvi-miR3624-5p, vvi-miR3625-3p, vvi-miR3625-5p, vvi-miR3626-3p, vvi-miR3626-5p, vvi-miR3627-3p, vvi-miR3627-5p, vvi-miR3628-3p, vvi-miR3628-5p, vvi-miR3629a-3p, vvi-miR3629a-5p, vvi-miR3629b, vvi-miR3629c, vvi-miR3630-3p, vvi-miR3630-5p, vvi-miR3631a-3p, vvi-miR3631a-5p, vvi-miR3631b-3p, vvi-miR3631b-5p, vvi-miR3631c, vvi-miR3631d, vvi-miR3632-3p, vvi-miR3632-5p, vvi-miR3633a-3p, vvi-miR3633a-5p, vvi-miR3633b-3p, vvi-miR3633b-5p, vvi-miR3634-3p, vvi-miR3634-5p, vvi-miR3635-3p, vvi-miR3635-5p, vvi-miR3636-3p, vvi-miR3636-5p, vvi-miR3637-3p, vvi-miR3637-5p, vvi-miR3638-3p, vvi-miR3638-5p, vvi-miR3639-3p, vvi-miR3639-5p, vvi-miR3640-3p, vvi-miR3640-5p, vvi-miR390, vvi-miR393a, vvi-miR393b, vvi-miR394a, vvi-miR394b, vvi-miR394c, vvi-miR395a, vvi-miR395b, vvi-miR395c, vvi-miR395d, vvi-miR395e, vvi-miR395f, vvi-miR395g, vvi-miR395h, vvi-miR395i, vvi-miR395j, vvi-miR395k, vvi-miR395l, vvi-miR395m, vvi-miR395n, vvi-miR396a, vvi-miR396b, vvi-miR396c, vvi-miR396d, vvi-miR397a, vvi-miR398a, vvi-miR398b, vvi-miR398c, vvi-miR399a, vvi-miR399b, vvi-miR399c, vvi-miR399d, vvi-miR399e, vvi-miR399f, vvi-miR399g, vvi-miR399h, vvi-miR399i, vvi-miR403a, vvi-miR403b, vvi-miR403c, vvi-miR403d, vvi-miR403e, vvi-miR403f, vvi-miR408, vvi-miR477a, vvi-miR477b-3p, vvi-miR477b-5p, vvi-miR479, vvi-miR482, vvi-miR535a, vvi-miR535b, vvi-miR535c, vvi-miR828a, vvi-miR845a, vvi-miR845b, vvi-miR845c, vvi-miR845d, vvi-miR845e, xbo-miR-124, xbo-miR-137, xbo-miR-2012, xbo-miR-2013, xbo-miR-219, xbo-miR-4907, xbo-miR-92a, xbo-miR-92b, xla-let-7a-3p, xla-let-7a-5p, xla-let-7b-3p, xla-let-7b-5p, xla-let-7c-3p, xla-let-7c-5p, xla-let-7e-3p, xla-let-7e-5p, xla-let-7f-3p, xla-let-7f-5p, xla-let-7i-3p, xla-let-7i-5p, xla-let-7j-3p, xla-let-7j-5p,

xla-miR-100-2-3p, xla-miR-100-3p, xla-miR-100-5p, xla-miR-101-3p, xla-miR-101-5p, xla-miR-103a-3p, xla-miR-103a-5p, xla-miR-103b-3p, xla-miR-103b-5p, xla-miR-106-3p, xla-miR-106-5p, xla-miR-107-3p, xla-miR-107-5p, xla-miR-10a-3p, xla-miR-10a-5p, xla-miR-10b-3p, xla-miR-10b-5p, xla-miR-122-3p, xla-miR-122-5p, xla-miR-124-2-5p, xla-miR-124-3p, xla-miR-124-5p, xla-miR-125a-3p, xla-miR-125a-5p, xla-miR-125b-3p, xla-miR-125b-5p, xla-miR-126-2-3p, xla-miR-126-3p, xla-miR-126-5p, xla-miR-128-2-5p, xla-miR-128-3p, xla-miR-128-5p, xla-miR-1306, xla-miR-130a-3p, xla-miR-130a-5p, xla-miR-130b-3p, xla-miR-130b-5p, xla-miR-130c-3p, xla-miR-130c-5p, xla-miR-133a, xla-miR-133b, xla-miR-133d, xla-miR-135-3p, xla-miR-135-5p, xla-miR-138-2-3p, xla-miR-138-3p, xla-miR-138-5p, xla-miR-140-3p, xla-miR-140-5p, xla-miR-142, xla-miR-142-3p, xla-miR-142-5p, xla-miR-143-3p, xla-miR-143-5p, xla-miR-144-3p, xla-miR-144-5p, xla-miR-145-3p, xla-miR-145-5p, xla-miR-146a-3p, xla-miR-146a-5p, xla-miR-146b-3p, xla-miR-146b-5p, xla-miR-148a-3p, xla-miR-148a-5p, xla-miR-148b-3p, xla-miR-148b-5p, xla-miR-15a-3p, xla-miR-15a-5p, xla-miR-15b-3p, xla-miR-15b-5p, xla-miR-15c, xla-miR-15c-3p, xla-miR-15c-5p, xla-miR-16a-3p, xla-miR-16a-5p, xla-miR-16b-3p, xla-miR-16b-5p, xla-miR-16c-3p, xla-miR-16c-5p, xla-miR-17-2-3p, xla-miR-17-3p, xla-miR-17-5p, xla-miR-181a-3p, xla-miR-181a-5p, xla-miR-181b-2-3p, xla-miR-181b-3p, xla-miR-181b-5p, xla-miR-182-2-3p, xla-miR-182-3p, xla-miR-182-5p, xla-miR-183-3p, xla-miR-183-5p, xla-miR-184-3p, xla-miR-184-5p, xla-miR-18a-3p, xla-miR-18a-5p, xla-miR-18b-3p, xla-miR-18b-5p, xla-miR-190-3p, xla-miR-190-5p, xla-miR-191-3p, xla-miR-191-5p, xla-miR-192-3p, xla-miR-192-5p, xla-miR-193-3p, xla-miR-193-5p, xla-miR-194, xla-miR-194-3p, xla-miR-194-5p, xla-miR-199-3p, xla-miR-199-5p, xla-miR-19a-3p, xla-miR-19a-5p, xla-miR-19b, xla-miR-19b-3p, xla-miR-19b-5p, xla-miR-1a-3p, xla-miR-1a-5p, xla-miR-1b, xla-miR-20, xla-miR-200a-3p, xla-miR-200a-5p, xla-miR-200b-3p, xla-miR-200b-5p, xla-miR-202-3p, xla-miR-202-5p, xla-miR-203-3p, xla-miR-203-5p, xla-miR-205, xla-miR-206-3p, xla-miR-206-5p, xla-miR-20a-3p, xla-miR-20a-5p, xla-miR-210-3p, xla-miR-210-5p, xla-miR-212-3p, xla-miR-212-5p, xla-miR-214-3p, xla-miR-214-5p, xla-miR-216-3p, xla-miR-216-5p, xla-miR-217-3p, xla-miR-217-5p, xla-miR-22-3p, xla-miR-22-5p, xla-miR-221-3p, xla-miR-221-5p, xla-miR-222-3p, xla-miR-222-5p, xla-miR-223, xla-miR-23a, xla-miR-23a-3p, xla-miR-23a-5p, xla-miR-23b-3p, xla-miR-23b-5p, xla-miR-24a-3p, xla-miR-24a-5p, xla-miR-24b-3p, xla-miR-24b-5p, xla-miR-25-3p, xla-miR-25-5p, xla-miR-26-2-3p, xla-miR-26-3p, xla-miR-26-5p, xla-miR-27a-3p, xla-miR-27a-5p, xla-miR-27b-3p, xla-miR-27b-5p, xla-miR-29b-3p, xla-miR-29b-5p, xla-miR-29c-3p, xla-miR-29c-5p, xla-miR-301-3p, xla-miR-301-5p, xla-miR-30a-3p, xla-miR-30a-5p, xla-miR-30b-3p, xla-miR-30b-5p, xla-miR-30c-3p, xla-miR-30c-5p,

xla-miR-30d-3p, xla-miR-30d-5p, xla-miR-30e-3p, xla-miR-30e-5p, xla-miR-338-3p, xla-miR-338-5p, xla-miR-33a-3p, xla-miR-33a-5p, xla-miR-33b-3p, xla-miR-33b-5p, xla-miR-34a-3p, xla-miR-34a-5p, xla-miR-34b-3p, xla-miR-34b-5p, xla-miR-363, xla-miR-363-3p, xla-miR-363-5p, xla-miR-375-3p, xla-miR-375-5p, xla-miR-425-2-3p, xla-miR-425-3p, xla-miR-425-5p, xla-miR-427, xla-miR-427-3p, xla-miR-427-5p, xla-miR-428, xla-miR-428a-3p, xla-miR-428a-5p, xla-miR-428b-3p, xla-miR-428b-5p, xla-miR-429, xla-miR-429-3p, xla-miR-429-5p, xla-miR-449-3p, xla-miR-449-5p, xla-miR-455-3p, xla-miR-455-5p, xla-miR-499-3p, xla-miR-499-5p, xla-miR-703, xla-miR-92a-3p, xla-miR-92a-4-5p, xla-miR-92a-5p, xla-miR-92b-3p, xla-miR-92b-5p, xla-miR-93-3p, xla-miR-93-5p, xla-miR-96-3p, xla-miR-96-5p, xla-miR-98-3p, xla-miR-98-5p, xla-miR-99-3p, xla-miR-99-5p, xtr-let-7a, xtr-let-7b, xtr-let-7c, xtr-let-7e, xtr-let-7f, xtr-let-7g, xtr-let-7i, xtr-miR-100, xtr-miR-101a, xtr-miR-103, xtr-miR-106, xtr-miR-107, xtr-miR-10a, xtr-miR-10b, xtr-miR-10c, xtr-miR-122, xtr-miR-124, xtr-miR-125a, xtr-miR-125b, xtr-miR-126-3p, xtr-miR-126-5p, xtr-miR-128, xtr-miR-129, xtr-miR-130a, xtr-miR-130b, xtr-miR-130c, xtr-miR-132, xtr-miR-133a, xtr-miR-133b, xtr-miR-133c, xtr-miR-133d, xtr-miR-135, xtr-miR-137, xtr-miR-138, xtr-miR-139, xtr-miR-140, xtr-miR-142-3p, xtr-miR-142-5p, xtr-miR-143, xtr-miR-144, xtr-miR-145, xtr-miR-146a, xtr-miR-146b, xtr-miR-148a, xtr-miR-148b, xtr-miR-150, xtr-miR-153, xtr-miR-155, xtr-miR-15a, xtr-miR-15b, xtr-miR-15c, xtr-miR-16a, xtr-miR-16b, xtr-miR-16c, xtr-miR-17-3p, xtr-miR-17-5p, xtr-miR-181a-1-3p, xtr-miR-181a-2-3p, xtr-miR-181a-5p, xtr-miR-181b, xtr-miR-182-3p, xtr-miR-182-5p, xtr-miR-183, xtr-miR-184, xtr-miR-187, xtr-miR-18a-3p, xtr-miR-18a-5p, xtr-miR-18b, xtr-miR-190, xtr-miR-191, xtr-miR-192, xtr-miR-193, xtr-miR-194, xtr-miR-196a, xtr-miR-196b, xtr-miR-199a-3p, xtr-miR-199a-5p, xtr-miR-199b, xtr-miR-19a, xtr-miR-19b, xtr-miR-1a, xtr-miR-1b, xtr-miR-200a, xtr-miR-200b, xtr-miR-202-3p, xtr-miR-202-5p, xtr-miR-203, xtr-miR-204, xtr-miR-205a, xtr-miR-205b, xtr-miR-206, xtr-miR-208, xtr-miR-20a-3p, xtr-miR-20a-5p, xtr-miR-20b, xtr-miR-210, xtr-miR-212, xtr-miR-214, xtr-miR-215, xtr-miR-216, xtr-miR-217, xtr-miR-218, xtr-miR-2184, xtr-miR-2188, xtr-miR-219, xtr-miR-22-3p, xtr-miR-22-5p, xtr-miR-221, xtr-miR-222, xtr-miR-223, xtr-miR-23a, xtr-miR-23b, xtr-miR-24a-3p, xtr-miR-24a-5p, xtr-miR-24b, xtr-miR-25, xtr-miR-26, xtr-miR-27a, xtr-miR-27b, xtr-miR-27c, xtr-miR-29a, xtr-miR-29b, xtr-miR-29c-3p, xtr-miR-29c-5p, xtr-miR-29d, xtr-miR-301, xtr-miR-302, xtr-miR-30a-3p, xtr-miR-30a-5p, xtr-miR-30b, xtr-miR-30c, xtr-miR-30d, xtr-miR-30e, xtr-miR-31a, xtr-miR-31b, xtr-miR-320, xtr-miR-338, xtr-miR-33a, xtr-miR-33b, xtr-miR-34a, xtr-miR-34b, xtr-miR-363-3p, xtr-miR-363-5p, xtr-miR-365, xtr-miR-367, xtr-miR-375, xtr-miR-383, xtr-miR-425-5p, xtr-miR-427, xtr-miR-428a, xtr-miR-428b, xtr-miR-429, xtr-miR-449a-3p, xtr-

miR-449a-5p, xtr-miR-449b-3p, xtr-miR-449b-5p, xtr-miR-449c-3p, xtr-miR-449c-5p, xtr-miR-451, xtr-miR-454-3p, xtr-miR-455, xtr-miR-460a-3p, xtr-miR-460b-3p, xtr-miR-489, xtr-miR-499, xtr-miR-551b-3p, xtr-miR-7, xtr-miR-9-3p, xtr-miR-9-5p, xtr-miR-92a, xtr-miR-92b, xtr-miR-93a, xtr-miR-93b, xtr-miR-9406, xtr-miR-9407, xtr-miR-96, xtr-miR-98, xtr-miR-99, xtr-miR-9a-3p, xtr-miR-9a-5p, xtr-miR-9b-3p, xtr-miR-9b-5p, zma-miR11969-3p, zma-miR11969-5p, zma-miR11970-3p, zma-miR11970-5p, zma-miR1432-3p, zma-miR1432-5p, zma-miR156a-3p, zma-miR156a-5p, zma-miR156b-3p, zma-miR156b-5p, zma-miR156c, zma-miR156d-3p, zma-miR156d-5p, zma-miR156e-3p, zma-miR156e-5p, zma-miR156f-3p, zma-miR156f-5p, zma-miR156g-3p, zma-miR156g-5p, zma-miR156h-3p, zma-miR156h-5p, zma-miR156i-3p, zma-miR156i-5p, zma-miR156j-3p, zma-miR156j-5p, zma-miR156k-3p, zma-miR156k-5p, zma-miR156l-3p, zma-miR156l-5p, zma-miR159a-3p, zma-miR159a-5p, zma-miR159b-3p, zma-miR159b-5p, zma-miR159c-3p, zma-miR159c-5p, zma-miR159d-3p, zma-miR159d-5p, zma-miR159e-3p, zma-miR159e-5p, zma-miR159f-3p, zma-miR159f-5p, zma-miR159g-3p, zma-miR159g-5p, zma-miR159h-3p, zma-miR159h-5p, zma-miR159i-3p, zma-miR159i-5p, zma-miR159j-3p, zma-miR159j-5p, zma-miR159k-3p, zma-miR159k-5p, zma-miR160a-3p, zma-miR160a-5p, zma-miR160b-3p, zma-miR160b-5p, zma-miR160c-3p, zma-miR160c-5p, zma-miR160d-3p, zma-miR160d-5p, zma-miR160e, zma-miR160f-3p, zma-miR160f-5p, zma-miR160g-3p, zma-miR160g-5p, zma-miR162-3p, zma-miR162-5p, zma-miR164a-3p, zma-miR164a-5p, zma-miR164b-3p, zma-miR164b-5p, zma-miR164c-3p, zma-miR164c-5p, zma-miR164d-3p, zma-miR164d-5p, zma-miR164e-3p, zma-miR164e-5p, zma-miR164f-3p, zma-miR164f-5p, zma-miR164g-3p, zma-miR164g-5p, zma-miR164h-3p, zma-miR164h-5p, zma-miR166a-3p, zma-miR166a-5p, zma-miR166b-3p, zma-miR166b-5p, zma-miR166c-3p, zma-miR166c-5p, zma-miR166d-3p, zma-miR166d-5p, zma-miR166e, zma-miR166f, zma-miR166g-3p, zma-miR166g-5p, zma-miR166h-3p, zma-miR166h-5p, zma-miR166i-3p, zma-miR166i-5p, zma-miR166j-3p, zma-miR166j-5p, zma-miR166k-3p, zma-miR166k-5p, zma-miR166l-3p, zma-miR166l-5p, zma-miR166m-3p, zma-miR166m-5p, zma-miR166n-3p, zma-miR166n-5p, zma-miR167a-3p, zma-miR167a-5p, zma-miR167b-3p, zma-miR167b-5p, zma-miR167c-3p, zma-miR167c-5p, zma-miR167d-3p, zma-miR167d-5p, zma-miR167e-3p, zma-miR167e-5p, zma-miR167f-3p, zma-miR167f-5p, zma-miR167g-3p, zma-miR167g-5p, zma-miR167h-3p, zma-miR167h-5p, zma-miR167i-3p, zma-miR167i-5p, zma-miR167j-3p, zma-miR167j-5p, zma-miR168a-3p, zma-miR168a-5p, zma-miR168b-3p, zma-miR168b-5p, zma-miR169a-3p, zma-miR169a-5p, zma-miR169b-3p, zma-miR169b-5p, zma-miR169c-3p, zma-miR169c-5p, zma-miR169d, zma-miR169e, zma-miR169f-3p, zma-miR169f-5p, zma-miR169g, zma-miR169h, zma-miR169i-3p, zma-

miR169i-5p, zma-miR169j-3p, zma-miR169j-5p, zma-miR169k-3p, zma-miR169k-5p, zma-miR169l-3p, zma-miR169l-5p, zma-miR169m-3p, zma-miR169m-5p, zma-miR169n-3p, zma-miR169n-5p, zma-miR169o-3p, zma-miR169o-5p, zma-miR169p-3p, zma-miR169p-5p, zma-miR169q-3p, zma-miR169q-5p, zma-miR169r-3p, zma-miR169r-5p, zma-miR171a-3p, zma-miR171a-5p, zma-miR171b-3p, zma-miR171b-5p, zma-miR171c-3p, zma-miR171c-5p, zma-miR171d-3p, zma-miR171d-5p, zma-miR171e-3p, zma-miR171e-5p, zma-miR171f-3p, zma-miR171f-5p, zma-miR171g-3p, zma-miR171g-5p, zma-miR171h-3p, zma-miR171h-5p, zma-miR171i-3p, zma-miR171i-5p, zma-miR171j-3p, zma-miR171j-5p, zma-miR171k-3p, zma-miR171k-5p, zma-miR171l-3p, zma-miR171l-5p, zma-miR171m-3p, zma-miR171m-5p, zma-miR171n-3p, zma-miR171n-5p, zma-miR172a, zma-miR172b-3p, zma-miR172b-5p, zma-miR172c-3p, zma-miR172c-5p, zma-miR172d-3p, zma-miR172d-5p, zma-miR172e, zma-miR2118a, zma-miR2118b, zma-miR2118c, zma-miR2118d, zma-miR2118e, zma-miR2118f, zma-miR2118g, zma-miR2275a-3p, zma-miR2275a-5p, zma-miR2275b-3p, zma-miR2275b-5p, zma-miR2275c-3p, zma-miR2275c-5p, zma-miR2275d-3p, zma-miR2275d-5p, zma-miR319a-3p, zma-miR319a-5p, zma-miR319b-3p, zma-miR319b-5p, zma-miR319c-3p, zma-miR319c-5p, zma-miR319d-3p, zma-miR319d-5p, zma-miR390a-3p, zma-miR390a-5p, zma-miR390b-3p, zma-miR390b-5p, zma-miR393a-3p, zma-miR393a-5p, zma-miR393b-3p, zma-miR393b-5p, zma-miR393c-3p, zma-miR393c-5p, zma-miR394a-3p, zma-miR394a-5p, zma-miR394b-3p, zma-miR394b-5p, zma-miR395a-3p, zma-miR395a-5p, zma-miR395b-3p, zma-miR395b-5p, zma-miR395c-3p, zma-miR395c-5p, zma-miR395d-3p, zma-miR395d-5p, zma-miR395e-3p, zma-miR395e-5p, zma-miR395f-3p, zma-miR395f-5p, zma-miR395g-3p, zma-miR395g-5p, zma-miR395h-3p, zma-miR395h-5p, zma-miR395i-3p, zma-miR395i-5p, zma-miR395j-3p, zma-miR395j-5p, zma-miR395k-3p, zma-miR395k-5p, zma-miR395l-3p, zma-miR395l-5p, zma-miR395m-3p, zma-miR395m-5p, zma-miR395n-3p, zma-miR395n-5p, zma-miR395o-3p, zma-miR395o-5p, zma-miR395p-3p, zma-miR395p-5p, zma-miR396a-3p, zma-miR396a-5p, zma-miR396b-3p, zma-miR396b-5p, zma-miR396c, zma-miR396d, zma-miR396e-3p, zma-miR396e-5p, zma-miR396f-3p, zma-miR396f-5p, zma-miR396g-3p, zma-miR396g-5p, zma-miR396h, zma-miR397a-3p, zma-miR397a-5p, zma-miR397b-3p, zma-miR397b-5p, zma-miR398a-3p, zma-miR398a-5p, zma-miR398b-3p, zma-miR398b-5p, zma-miR399a-3p, zma-miR399a-5p, zma-miR399b-3p, zma-miR399b-5p, zma-miR399c-3p, zma-miR399c-5p, zma-miR399d-3p, zma-miR399d-5p, zma-miR399e-3p, zma-miR399e-5p, zma-miR399f-3p, zma-miR399f-5p, zma-miR399g-3p, zma-miR399g-5p, zma-miR399h-3p, zma-miR399h-5p, zma-miR399i-3p, zma-miR399i-5p, zma-miR399j-3p, zma-miR399j-5p, zma-miR408a, zma-miR408b-3p, zma-miR408b-5p,

zma-miR444a, zma-miR444b, zma-miR482-3p, zma-miR482-5p, zma-miR528a-3p, zma-miR528a-5p, zma-miR528b-3p, zma-miR528b-5p, zma-miR529-3p, zma-miR529-5p, zma-miR827-3p, zma-miR827-5p, or a combination thereof.

[0092] Many miRNAs exhibit a tissue-specific expression pattern. Examples of miRNAs that are ES-cell specific include miR-296. Examples of miRNAs that are expressed in ES cells, but upregulated on differentiation include miR-21 and miR-22. Examples of miRNAs that are expressed in both ES cells and various adult tissues include miR-15a, miR-16, miR-19b, miR-92, miR-93, miR-96, miR-130 and miR-130b. Examples of miRNAs that are enriched during mouse brain development include miR-128, miR-19b, miR-9, miR-125b, miR-131, miR-178, miR-124a, miR-266 and miR-103. Examples of miRNAs that are enriched in adult brain include miR-9*, miR-125a, miR-125b, miR-128, miR-132, miR-137, miR-139, miR-7, miR-9, miR124a, miR-124b, miR-135, miR-153, miR-149, miR-183, miR-190, and miR-219. Examples of miRNAs that are enriched in lung include miR-18, miR-19a, miR-24, miR-32, miR-130, miR-213, miR-20, miR-141, miR-193 and miR-200b. Examples of miRNAs that are enriched in spleen include miR99a, miR-127, miR-142-a, miR-142-s, miR-151, miR-189b and miR-212. Examples of miRNAs that are hematopoietic tissues include miR-181, miR-223 and miR-142. Examples of miRNAs that are enriched in liver include miR-122a, miR-152, miR-194, miR-199 and miR-215. Examples of miRNAs that are enriched in heart include miR-1b, miR-1d, miR-133, miR-206, miR-208, and miR-143. Examples of miRNAs that are enriched in kidney include miR-30b, miR-30c, miR-18, miR-20, miR-24, miR-32, miR-141, miR-193 and miR-200b. Examples of miRNAs that are ubiquitously expressed include miR-16, miR-26a, miR-27a, miR-143a, miR-21, let-7a, miR-7b, miR-30b and miR-30c. See, Houbaviy et al, Dev. Cell (2003) 5: 351-358; Sempere et al, Genome Biol. (2004) 5, R13; and Krichevsky et al, RNA (2003), 9: 1274-1281, each of which is incorporated herein by reference in its entirety.

[0093] Some miRNAs can be abnormally expressed in a diseased state (e.g., tumorigenesis). For example, miR-15 and miR-16 are downregulated in chronic lymphocytic leukemia; miR-26a and miR-99a are downregulated in lung cancer cell lines; miR143/miR-145 cluster are downregulated in colon cancers; and miR-155 is upregulated in Burkitt Lymphoma, and ES cells, embryonic stem cells. See, Calin et al, Proc Natl Acad Sci (2002) 99: 15524-15529; Calin et al, Proc Natl Acad Sci (2004) 101: 2999-3004; Michael et al, Mol Cancer Res (2003) 1: 882-891, and Metzier et al, Genes Chromosomes Cancer (2004) 39: 167-169, each of which is incorporated herein by reference in its entirety.

[0094] In various embodiments, a polynucleotide molecule described herein comprise a nucleotide sequence encoding a ribosomal frameshift stimulator. The one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the ribosomal frameshift stimulator in the absence of the respective miRNA targeting the MSE sequence.

[0095] In some embodiments, the one or more MSE sequences are positioned in the open reading frame (ORF) or in 3' untranslated region (3' UTR) of the ribosomal frameshift stimulator transcript coding sequence.

[0096] In some embodiments, the ribosomal frameshift stimulator is a cardiovirus 2A protein.

[0097] Cardioviruses are a genus of viruses that belong to the Picornaviridae family. There are currently six species in the genus *Cardiovirus A*, *Cardiovirus B*, *Cardiovirus C*, *Cardiovirus D*, *Cardiovirus E*, and *Cardiovirus F*. *Cardiovirus A* is composed of one serotype, encephalomyocarditis virus (EMCV). *Cardiovirus B* comprises four known viruses: Theiler's Murine encephalomyelitis virus (TMEV), Vilyuisk human encephalomyelitis virus (VHEV), a Theiler-like rat virus (TRV) and Saffold virus (SAF-V).

[0098] In some embodiments, the cardiovirus 2A protein is derived from EMCV, or a variant thereof. In other embodiments, the cardiovirus 2A protein may be derived from TMEV, VHEV, TRV or SAF-V, or a variant thereof.

[0099] Despite the low sequence identity amongst *Cardiovirus* 2A orthologs, they adopt a common architecture. They form a so-called $\beta_3\alpha\beta_3\alpha\beta$ '*β*-shell' fold comprised of six- or seven-stranded antiparallel β-sheet, packed against two α-helices. One of the most conserved elements is the flexible "arginine loop", located between β5 and β6. This loop can be essential for both RNA binding and frameshifting. See, Napthine, S. *et al.* Protein-directed ribosomal frameshifting temporally regulates gene expression. *Nat Commun* **8**, 15582 (2017), Finch, L. *et al.*, Characterization of Ribosomal Frameshifting in Theiler's Murine Encephalomyelitis Virus. J Virol. 2015 Aug;89(16):8580-9, Napthine, S. *et al.*, Characterization of the stimulators of protein-directed ribosomal frameshifting in Theiler's murine encephalomyelitis virus. Nucleic Acids Res. 2019 Sep 5;47(15):8207-8223; each of which is incorporated by reference in its entirety.

[00100] In some embodiments, the cardiovirus 2A protein comprises the amino acid sequence

MSPNALDISRTYPTLHVLIQFNHRGLEVRLFRHGHFWAETRADVILRSKTKQVSFLSN
GNYPSMDSRAPWNPWKNTYQAVLRAEPCRVTMDIYYKRVRPFRLPLVQKEWPVRE

ENVFGLYRIFNAHYAGYFADLLIHDIETNPG (SEQ ID NO: 1), or a sequence having at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, or at least 99% identity to SEQ ID NO: 1. In one embodiment, the cardiovirus 2A protein comprises the amino acid sequence of SEQ ID NO: 1. In one embodiment, the cardiovirus 2A protein consists of the amino acid sequence of SEQ ID NO: 1.

[00101] In some embodiments, the nucleotide sequence encoding the cardiovirus 2A protein comprises the nucleotide sequence

ATGAGTCCAAATGCCCTAGACATTTCAAGAACATACCCCACGTTACATGTTCTCA
TTCAATTCAACCATAGAGGTTTGGAGGTTAGATTGTTTAGACATGGACACTTTTG
GGCTGAAACACGTGCGGACGTGATTCTGAGATCAAAGACCAAACAGGTCTCTTT
CCTGAGCAACGGGAACTACCCGTCAATGGACTCTAGAGCTCCCTGGAATCCTTGG
AAGAATACCTACCAGGCGGTTCTAAGAGCAGAACCATGTAGAGTGACCATGGAT
ATATATTATAAGAGAGTCAGGCCTTTTAGACTGCCCCTGGTTCAGAAGGAATGGC
CCGTGCGAGAGGAGAACGTTTTCGGTTTGTACCGGATCTTCAATGCCCACTACGC
TGGTTACTTTGCGGACCTACTGATTCATGACATTGAGACAAATCCAGGGTAG

(SEQ ID NO: 2), or a sequence having at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, or at least 99% identity to SEQ ID NO: 2. In one embodiment, the nucleotide sequence encoding the cardiovirus 2A protein comprises the nucleotide sequence of SEQ ID NO: 2. In one embodiment, the nucleotide sequence encoding the cardiovirus 2A protein consists of the nucleotide sequence of SEQ ID NO: 2.

[00102] In some embodiments, the nucleotide sequence encoding the cardiovirus 2A protein is codon optimized for expression in a target species.

[00103] In some embodiments, a ribosomal frameshift element used in a miRNA-based polynucleotide circuit described herein is derived from a cardiovirus.

[00104] **Figs. 1-2** illustrate the ribosomal frameshift biology utilized by the family of cardioviruses. In the context of cardioviruses, a stretch of uracil bases upstream of an RNA hairpin induce a consistent ribosomal slippage event during translation[13]. Similar to many frameshift motifs utilized by viruses, a stretch of ~5 uracil bases located 12-15nts upstream of a structure that induces a steric hindrance on the ribosome such as a stable GC-rich RNA hairpin. During translation, the ribosome is stalled in place as it advances into the hairpin as the active peptidyl transferase site is positioned directly on the stretch of uracils, causing

slippage and a change in reading frame. While ribosomal frame shift elements can function based entirely on the RNA motif described, cardioviruses impose an additional level of control onto the element by evolving the need for a protein (2A protein) to stabilize the hairpin and impose the steric hindrance on the ribosome – enabling utilization of a -1 reading frames[13]. Ribosomal frame shift phenomena are further described in Hill, C. H. *et al.* Structural and molecular basis for cardiovirus 2A protein as a viral gene expression switch. *Nat Commun* **12**, 7166 (2021), Napthine, S. *et al.* Protein-directed ribosomal frameshifting temporally regulates gene expression. *Nat Commun* **8**, 15582 (2017), and Loughran, G. *et al.* Ribosomal frameshifting into an overlapping gene in the 2B-encoding region of the cardiovirus genome. *PNAS* **108,** 46, 1111 (2011), each of which is incorporated by reference in its entirety.

[00105] Cardiovirus programmed ribosomal frameshifting (PRF) system typically requires:

1. 5' shift site composed of GGUUUUU ;
2. 3' adjacent to the shift site is a stimulatory RNA spacer of 13-14nts;
3. 3' adjacent to the stimulatory RNA spacer is a stem loop comprising a cytosine triplet in the loop; and
4. a cardiovirus 2A protein capable of recognizing the RNA stem loop.

[00106] In some embodiments, the ribosomal frameshift element is derived from EMCV, or a variant thereof. In some embodiments, the ribosomal frameshift element is derived from TMEV, VHEV, TRV or SAF-V, or a variant thereof.

[00107] In some embodiments, a ribosomal frameshift element used in a miRNA-based polynucleotide circuit described herein comprises from 5' to 3': 1) a 5' shift site, 2) a spacer sequence, and 3) a stem-loop structure.

[00108] In some embodiments, the 5' shift site comprises the sequence 5'-GGUUUUU-3'. In some embodiments, the 5' shift site consists of the sequence 5'-GGUUUUU-3'.

[00109] In some embodiments, the spacer is 13-17 nucleotides long. In some embodiments, the spacer is 13, 14, 15, 16 or 17 nucleotides long. The spacer may not need to be sequence specific.

[00110] In some embodiments, the spacer is 13 or 14 nucleotides long. In some embodiments, the spacer comprises the sequence CAGACUCAAGGAG (SEQ ID NO: 4), or a sequence having at least 35%, at least 45%, at least 50%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, or at least 99%

identity to SEQ ID NO: 4. In some embodiments, the spacer comprises the sequence SEQ ID NO: 4. In some embodiments, the spacer consists of the sequence SEQ ID NO: 4.

[00111] In some embodiments, the stem-loop structure comprises a stem of about 7-10 nucleotides. In some embodiments, the stem-loop structure comprises a stem of about 7, 8, 9 or 10 nucleotides. In some embodiments, the stem-loop structure comprises a stem of about 7 nucleotides. In some embodiments, the stem-loop structure comprises the sequence 5'-CGGCAGU-3' followed by a loop and the complementary sequence 5'ACUGCCG-3'.

[00112] In some embodiments, the loop comprises about 18-30 nucleotides. In some embodiments, the loop comprises 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30 nucleotides. In some embodiments, the loop comprises about 21 nucleotides. In some embodiments, the loop of the stem-loop structure comprises an adenosine triplet followed by a cytosine triplet. In some embodiments, the loop structure comprises the sequence GUCAUCAAUGGCUCAAACCCU (SEQ ID NO: 7), or a sequence having at least 60%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, or at least 99% identity to SEQ ID NO: 7. In some embodiments, the loop structure comprises the sequence SEQ ID NO: 7. In some embodiments, the loop structure consists of the sequence SEQ ID NO: 7.

[00113] In some embodiments, a ribosomal frameshift element used in a miRNA-based polynucleotide circuit described herein comprises the sequence GGUUUUUCAGACUCAAGGAGCGGCAGUGUCAUCAAUGGCUCAAACCCUACUGCCG (SEQ ID NO: 8), or a sequence having at least 60%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, or at least 99% identity to SEQ ID NO: 8.

[00114] In some embodiments, a ribosomal frameshift element used in a miRNA-based polynucleotide circuit described herein comprises the sequence GGUUUUUCAGACUCAAGGAGCGGCAGUGUCAUCAAUGGCUCAAACCCUACUGCCG (SEQ ID NO: 12), or a sequence having at least 60%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, or at least 99% identity to SEQ ID NO: 12.

[00115] In various embodiments, a ribosomal frameshift element used in a miRNA-based polynucleotide circuit described herein causes a -1 frameshift in the presence of the ribosomal frameshift stimulator.

[00116] In various embodiments, a polynucleotide molecule described herein further comprises a promoter, and wherein expression of the ribosomal frameshift stimulator is under the control of the promoter. In some embodiments, expression of the payload polypeptide is under the control of the same promoter.

[00117] In various embodiments, a polynucleotide molecule described herein is structured as an alternatively spliced construct, wherein one transcript comprises the nucleotide sequence encoding the ribosomal frameshift stimulator and one or more MSE sequences, and another transcript comprises the ribosomal frameshift element and the nucleotide sequence encoding the payload polypeptide. In various embodiments, a polynucleotide molecule described herein is structured as an alternatively spliced construct, wherein one transcript comprises the nucleotide sequence encoding the ribosomal frameshift stimulator and one or more MSE sequences, and another transcript does not comprise the nucleotide sequence encoding the ribosomal frameshift stimulator and one or more MSE sequence.

[00118] When the miRNA-based polynucleotide circuit is structured as an alternatively spliced construct, the miRNA-based polynucleotide circuit further comprises a 5' donor splice site and a 3' acceptor splice site. In one embodiment, the 5' donor splice site comprises the sequence AG*GU(A/G)AGU, wherein * denotes the splice junction. In one embodiment, the 5' donor splice site comprises the sequence AG*GU(A/G)GAU, wherein * denotes the splice junction. In one embodiment, the 3' acceptor splice site comprises a branch point, a pyrimidine tract, and the sequence AG*G, wherein * denotes the splice junction.

[00119] In some embodiments, a polynucleotide molecule described herein may comprise one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, and wherein expression of the first payload polypeptide and the one or more additional payload polypeptides is under the control of the same promoter. In such embodiments, the polynucleotide molecule may further comprise other elements such as a 2A ribosomal "stop-carry" site encoding a 2A peptide (e.g., porcine teschovirus-1 2A (P2A), *Thosea asigna* virus 2A (T2A), equine rhinitis A virus 2A (E2A), or foot-and-mouth disease virus 2A (F2A)) to generate a polycistronic mRNA.

[00120] In some embodiments, a polynucleotide molecule described herein may comprise one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, and wherein expression of the first payload polypeptide is under the control of a first promoter, and expression of each of the additional payload polypeptides is under the control of respective additional promoters.

[00121] In some embodiments, in addition to the promoter which controls the expression of the ribosomal frameshift stimulator, a polynucleotide molecule described herein may comprise a second promoter which controls expression of the payload polypeptide. The polynucleotide may further comprise one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, and wherein expression of each of the additional payload polypeptides is under the control of respective additional promoters.

[00122] In further embodiments, a polynucleotide molecule described herein may further comprise one or more DNA insulator elements. The one or more DNA insulator elements may be positioned between the 3'UTR of a ribosomal frameshift stimulator transcript coding sequence and a subsequent promoter. The one or more DNA insulator elements may enhance efficiency of termination of transcription of the ribosomal frameshift stimulator.

[00123] When multiple combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide are included, the DNA insulator elements may be positioned between the 3'UTR of each subsequent transcript and each subsequent promoter, and wherein the DNA insulator elements enhance efficiency of termination of transcription.

[00124] Promotors used in a polynucleotide molecule described herein may be an RNA polymerase II promoter. Examples of RNA polymerase II promoter include, but are not limited to, a cytomegalovirus (CMV) promoter, a simian virus 40 (SV40) promoter, a human elongation factor 1 alpha (EF1α) promoter, or a phosphoglycerate kinase (PGK) promoter, a minimal promoter fragment derived from the CMV promoter (minCMV promoter), a RSV LTR, a MoMLV LTR, a CK6 promoter, a transthyretin promoter (TTR), a TK promoter, a tetracycline responsive promoter (TRE), an HBV promoter, an hAAT promoter, a LSP promoter, chimeric liver- specific promoters (LSPs), a E2F promoter, a telomerase (hTERT) promoter, a cytomegalovirus enhancer/chicken beta-actin/Rabbit β-globin promoter (CAG) promoter, a rod opsin promoter, a cone opsin promoter, a beta phosphodiesterase (PDE) promoter, a retinitis pigmentosa (RP1) promoter, or an interphotoreceptor retinoid-binding protein gene (IRBP) promoter.

[00125] Promotors used in a polynucleotide molecule described herein can be bi-directional promoters. Examples of bi-directional promoters include, but are not limited to, human promoter for 3-phosphoglycerate kinase (hPGK), a minimal Cytomegalovirus (CMV) promoter, TRE3G promoter (Heumüller, M. et al., Nat Methods 16, 699–702 (2019); incorporated herein by reference in its entirety), Ponasterone A promoter (Genes & Dev.,

2013, 27:541–551; incorporated herein by reference in its entirety), or any combinations thereof.

[00126] In certain embodiments, a bi-direction promoter comprises a hPGK promoter in one direction and a minimal CMV promoter in the other direction. In some embodiments, a bi-directional promoter comprises a hPGK promoter comprising the nucleotide sequence GGGGTTGGGGTTGCGCCTTTTCCAAGGCAGCCCTGGGTTTGCGCAGGGACGCGG CTGCTCTGGGCGTGGTTCCGGGAAACGCAGCGGCGCCGACCCTGGGTCTCGCAC ATTCTTCACGTCCGTTCGCAGCGTCACCCGGATCTTCGCCGCTACCCTTGTGGGCC CCCCGGCGACGCTTCCTGCTCCGCCCCTAAGTCGGGAAGGTTCCTTGCGGTTCGC GGCGTGCCGGACGTGACAAACGGAAGCCGCACGTCTCACTAGTACCCTCGCAGA CGGACAGCGCCAGGGAGCAATGGCAGCGCGCCGACCGCGATGGGCTGTGGCCA ATAGCGGCTGCTCAGCAGGGCGCGCCGAGAGCAGCGGCCGGGAAGGGGCGGTG CGGGAGGCGGGGTGTGGGGCGGTAGTGTGGGCCCTGTTCCTGCCCGCGCGGTGT TCCGCATTCTGCAAGCCTCCGGAGCGCACGTCGGCAGTCGGCTCCCTCGTTGACC GAATCACCGACCTCTCTCCCCAG (SEQ ID NO: 13), or a variant having at least 60%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, or at least 99% identity to SEQ ID NO: 13. In some embodiments, a bi-directional promoter comprises a minimal CMV promoter comprising the nucleotide sequence GGTAGGCGTGTACGGTGGGAGGCCTATATAAGCAGAGCT (SEQ ID NO: 14), or a variant having at least 60%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, or at least 99% identity to SEQ ID NO: 14.

[00127] In one embodiment, a DNA insulator element used herein comprises CCCTC-binding factor sites. For example, the DNA insulator may be derived from the chicken beta-globin gene and may comprise the nucleotide sequence 5'-CTCCTCCTCCGGAGGGCGGGGTGGAGGGTCGGGGGCCCTCTCTCCCCTCTCCCCT CTCTCTCTCCCTCTCTCCCTCTCCCTCCTCTCTCCCTCTCCCTCTCCTCTCTCTCCTC TCTCTCTCTCCCTCTCTCCCTCTCCCTCTCTCTCTCTCTCCCTCTCCCTCTCTCTC TCCTCCCTCCTCTCTCTCTCCTCTCTCTCCTCTCTCTCCCTCTCTCTCTCTCTCTC TCCCTCTCTC - 3' (SEQ ID NO: 11), or a variant having at least 60%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, or at least 99% identity to SEQ ID NO: 11.

[00128] In various embodiments, the nucleotide sequence encoding the payload polypeptide is positioned in frame with the ribosomal frameshift element.

[00129] In various embodiments, the nucleotide sequence encoding the payload polypeptide is positioned in -1 translation frame in relation to the ribosomal frameshift element.

[00130] In some embodiments where multiple combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide are included, the nucleotide sequence encoding each payload polypeptide may be independently positioned in frame or in -1 translation frame in relation to its closest 5' ribosomal frameshift element in the resulting mRNA.

[00131] In some embodiments where multiple combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide are used, the additional ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the additional payload polypeptide. Translation of the additional payload polypeptide may be controlled by the additional ribosomal frameshift element and may require either the presence or absence of the ribosomal frameshift stimulator. The nucleotide sequence encoding the additional payload polypeptide may be positioned in frame or in -1 translation frame in relation to the additional ribosomal frameshift element.

[00132] In some embodiments, the nucleotide sequence payload polypeptide is codon optimized at the 5' end such that when a frameshift is induced, the 5' of the transcript contains one or more stop codons. This can minimize the expression of unwanted protein products.

Exemplary embodiments

[00133] In one embodiment, a polynucleotide of the present disclosure comprises from 5' to 3':

a) a first promoter;
b) a 5' donor splice site;
c) a nucleotide sequence encoding a ribosomal frameshift stimulator;
d) one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of said one or more MSE sequences is targeted by a miRNA, and wherein each of said one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the ribosomal frameshift stimulator in the absence of the respective miRNA targeting said MSE sequence;

e) a 3' splice acceptor site, and

f) a first ribosomal frameshift element, and

g) a nucleotide sequence encoding a first payload polypeptide,

wherein the first ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the first payload polypeptide,

wherein translation of the first payload polypeptide is controlled by the first ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and

wherein the nucleotide sequence encoding the first payload polypeptide is positioned in frame or in -1 translation frame in relation to the first ribosomal frameshift element.

[00134] In one embodiment, the polynucleotide further comprises 3' to the nucleotide sequence encoding the first payload polypeptide from 5' to 3':

h) a second promoter;

i) a second ribosomal frameshift element, and

j) a nucleotide sequence encoding a second payload polypeptide,

wherein the second ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the second payload polypeptide,

wherein translation of the second payload polypeptide is controlled by the second ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and

wherein the nucleotide sequence encoding the second payload polypeptide is positioned in frame or in -1 translation frame in relation to the second ribosomal frameshift element.

[00135] In one embodiment, the polynucleotide further comprises a DNA insulator element, wherein said DNA insulator element is positioned between the nucleotide sequence encoding the first payload polypeptide and the second promoter, and wherein said DNA insulator element enhances efficiency of termination of transcription.

[00136] In one embodiment, the 5' donor splice site comprises the sequence AG*GU(A/G)AGU or AG*GU(A/G)GAU, wherein * denotes the splice junction.

[00137] In one embodiment, the 3' acceptor splice site comprises a branch point, a pyrimidine tract, and the sequence AG*G, wherein * denotes the splice junction.

[00138] In another embodiment, a polynucleotide of the present disclosure comprises from 5' to 3':

a) a first promoter;
b) a nucleotide sequence encoding a ribosomal frameshift stimulator;
c) one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of said one or more MSE sequences is targeted by a miRNA, and wherein each of said one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the ribosomal frameshift stimulator in the absence of the respective miRNA targeting said MSE sequence,
d) a second promoter;
e) a first ribosomal frameshift element, and
f) a nucleotide sequence encoding a first payload polypeptide,
wherein the first ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the first payload polypeptide,
wherein translation of the first payload polypeptide is controlled by the first ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and
wherein the nucleotide sequence encoding the first payload polypeptide is positioned in frame or in -1 translation frame in relation to the first ribosomal frameshift element.

[00139] In one embodiment, the polynucleotide further comprises a DNA insulator element, wherein said DNA insulator element is positioned between the 3'UTR of the ribosomal frameshift stimulator transcript coding sequence and the second promoter, and wherein said DNA insulator element enhances efficiency of termination of transcription.

[00140] In one embodiment, the polynucleotide further comprises 3' to the nucleotide sequence encoding the first payload polypeptide from 5' to 3':

g) a third promoter;
h) a second ribosomal frameshift element, and
i) a nucleotide sequence encoding a second payload polypeptide,
wherein the second ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the second payload polypeptide,
wherein translation of the second payload polypeptide is controlled by the second ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and

wherein the nucleotide sequence encoding the second payload polypeptide is positioned in frame or in -1 translation frame in relation to the second ribosomal frameshift element.

[00141] In one embodiment, a polynucleotide of the present disclosure comprises from 5' to 3':

a) one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of said one or more MSE sequences is targeted by a miRNA,
b) a nucleotide sequence encoding a ribosomal frameshift stimulator, wherein each of said one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the ribosomal frameshift stimulator in the absence of the respective miRNA targeting said MSE sequence;
c) a bi-directional promoter;
d) a first ribosomal frameshift element;
e) a nucleotide sequence encoding a first payload polypeptide, wherein the first ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the first payload polypeptide, wherein translation of the first payload polypeptide is controlled by the first ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and wherein the bi-directional promoter drives expression of the ribosomal frameshift stimulator in one direction and the first payload polypeptide in the opposite direction; and
f) optionally one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, wherein within each combination, the ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the payload polypeptide, wherein translation of each additional payload polypeptide is controlled by its closest 5' ribosomal frameshift element in the resulting mRNA and independently requires either the presence or absence of the ribosomal frameshift stimulator.

Payload polypeptides

[00142] In various embodiments, miRNA-based polynucleotide circuits described herein include a sequence nucleotide sequence encoding a payload polypeptide.

[00143] In some embodiments, the payload polypeptide is a gene editing nuclease, a chimeric antigen receptor (CAR), an antibody, a cytotoxic protein, a cell surface receptor, a

transcription factor, an enzyme, a reporter protein, a cytokine, or a polypeptide that confers drug resistance.

[00144] In some embodiments, the payload polypeptide is a gene editing nuclease. Examples of gene editing nucleases include, but are not limited to, a CRISPR-associated protein (Cas) nucleases (e.g., Cas9), zinc finger nucleases (ZFNs), transcription activator-like effector nucleases (TALENs), meganucleases, other endo- or exo-nucleases, and variants or fragments thereof. In one embodiment, the payload polypeptide is a Cas9 nuclease.

[00145] In some embodiments, the payload polypeptide is a chimeric antigen receptor (CAR). CARs typically consist of four components: i) an extracellular antigen recognition domain, most commonly a single chain variable fragment (scFv), ii) structural components, such as hinge and transmembrane domains, iii) a costimulatory domain that provides signals to sustain CAR T cell effector functions, and iv) a CD3ζ activation domain.

[00146] In some embodiments, the payload polypeptide is a cytotoxic protein. A cytotoxic protein may induce cell death in when expressed in a host cell and/or cell death of a neighboring cell when secreted by the host cell. In some embodiments, the cytotoxic protein is a caspase, p53, diphtheria toxin (DT), Pseudomonas Exotoxin A (PEA), Type I ribosome inactivating proteins (RIPs) (e.g., saporin and gelonin), Type II RIPs (e.g., ricin), Shiga-like toxin 1 (Slt1), photosensitive reactive oxygen species (e.g., killer-red).

[00147] In some embodiments, the payload polypeptide is a reporter protein. A reporter protein may produce a detectable signal which allows detection of the target cell or tissue. Examples of reporter proteins include, without limitation, b-lactamase, b- galactosidase (LacZ), alkaline phosphatase, thymidine kinase, green fluorescent protein (GFP), red fluorescent protein (RFP), yellow fluorescent protein (YFP), chloramphenicol acetyltransferase (CAT), luciferase, membrane bound proteins including, for example, CD2, CD4, CD8, the influenza hemagglutinin protein, to which high affinity antibodies directed thereto exist or can be produced by conventional means, and fusion proteins comprising a membrane bound protein appropriately fused to an antigen tag domain from, among others, hemagglutinin or Myc.

[00148] In some embodiments, the payload polypeptide is an antibody or antigen binding fragment thereof (e.g., antigen-binding fragment of a monoclonal antibody, a single chain variable fragment (scFv), a Fab, a Fab', a F(ab')2, and a Fv fragment). In some embodiments, the antibody or antigen binding fragment thereof specifically binds to a cell surface receptor, such as an immune checkpoint receptor (e.g., PD1, PDL1, and CTLA4) or additional cell surface receptors involved in cell growth and activation (e.g., OX40, CD200R, SIRPα,

CSF1R, 4-1BB, CD40, and NKG2D). Examples of therapeutic antibodies that can be expressed by the miRNA-based polynucleotide circuits include e.g., a monoclonal antibody such as sutimlimab, naxitamab, margetuximab, tanezumab, narsoplimab, evinacumab, aducanumab, tralokinumab, dostarlimab, teplizumab, omburtamab, inolimomb, ansuvimab, bimekizumab, balstilimab, anifrolumab, and the like.

[00149] In some embodiments, the payload polypeptide is a ligand for a cell surface receptor. Exemplary ligands suitable for use as payloads include, but are not limited to, NKG2D ligands, neuropilin ligands, Flt3 ligand, 4-1BBL, CD40L, GITRL, LIGHT, and CD47.

[00150] In some embodiments, the payload polypeptide is a soluble receptor. Exemplary soluble receptors suitable for use as payloads include, but are not limited to, soluble receptors such as IL-35R, IL-15R, IL-2R, IL-12R, IL-13R, TGFβR1, TGFβR2, SIRPα, PD-1, interferon receptors, VEGF receptors, TNF-a-binding receptors such as etanercept, and γδ T cell receptors.

[00151] In some embodiments, the payload polypeptide is a cytokine. Exemplary cytokines suitable for use as payloads include, but are not limited to, IL-1, IL-12, IL-15, IL-18, IL-36, TNFα, IFNα, IFNβ, and IFNγ.

[00152] In some embodiments, the payload molecule is a chemokine. Exemplary chemokines suitable for use as payloads include, but are not limited to, CXCL10, CXCL9, CCL21, CCL4, and CCL5.

[00153] In some embodiments, the payload polypeptide is an enzyme. Exemplary enzymes suitable for use as payloads include, but are not limited to, an adenosine deaminase, 15-Hydroxyprostaglandin Dehydrogenase, a matrix metalloprotease (e.g., MMP9), a collagenase, a hyaluronidase, a gelatinase, and an elastase. In some embodiments, the enzyme is part of a gene directed enzyme prodrug therapy (GDEPT) system, such as herpes simplex virus thymidine kinase, cytosine deaminase, nitroreductase, carboxypeptidase G2, purine nucleoside phosphorylase, or cytochrome P450.

[00154] Other suitable payload polypeptides include, but are not limited to, an angiogenic agent (e.g., vascular endothelial growth factor (VEGF); an anti-angiogenic agent (e.g., a soluble VEGF receptor); a blood factor (e.g., Activase® (alteplase) tissue plasminogen activator, coagulation Factor IX, b-globin hemoglobin, Factor V (FV), FVII, FVIII, FIX, FX, FXI, FXIII, FII, Protein C, C1 -inhibitor, prekallikrein, high molecular weight kininogen (HMWK) or von Willebrand's factor, and the like); a chemokine (e.g., IP-10, Mig, Groa/IL-8, RANTES, MIR-Ia, MIR-Ib, MCP-1, PF-4, and the like); a cytokine; a colony stimulating

factor (e.g., granulocyte colony stimulating factor (G-CSF), granulocyte-monocyte colony stimulating factor, macrophage colony stimulating factor, megakaryocyte colony stimulating factor and the like); an enzyme (e.g., a-glucosidase, alglucerase), an enzyme activator (e.g., tissue plasminogen activator); an erythropoietin ("EPO", e.g., epoetin-a, darbepoietin-a, epoetin-b, and the like); a growth hormone (e.g., a somatotropin, a human growth hormone and the like); a growth factor (e.g. beclapermin PDGF, trafermin bFGF, ancestim stem cell factor, keratinocyte growth factor, an acidic fibroblast growth factor, a stem cell factor, a basic fibroblast growth factor, a hepatocyte growth factor, and the like); an insulin; an interferon (e.g., IFN-g, IFN-a, IFN-b, IFN-w, IFN-x); an interleukin (e.g., IL-1, IL-2, including, e.g., Proleukin®, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, etc.); a cell surface receptor; a protein vaccine; a neuroactive peptide (e.g., bradykinin, cholecystokinin, gastin, secretin, oxytocin, gonadotropin-releasing hormone, beta-endorphin, enkephalin, substance P, somatostatin, prolactin, galanin, growth hormone-releasing hormone, bombesin, dynorphin, neurotensin, motilin, thyrotropin, neuropeptide Y, luteinizing hormone, calcitonin, insulin, glucagon, vasopressin, angiotensin II, thyrotropin-releasing hormone, vasoactive intestinal peptide, a sleep peptide, etc.); other proteins such as a thrombolytic agent, an atrial natriuretic peptide, bone morphogenic protein, thrombopoietin, relaxin, glial fibrillary acidic protein, follicle stimulating hormone, a human alpha-1 antitrypsin, a leukemia inhibitory factor, a transforming growth factor, an insulin-like growth factor, a luteinizing hormone, a macrophage activating factor, tumor necrosis factor, a neutrophil chemotactic factor, a nerve growth factor a tissue inhibitor of metalloproteinases; a vasoactive intestinal peptide, angiogenin, angiotropin, fibrin, hirudin, a leukemia inhibitory factor, an IL-1 receptor antagonist (e.g., anakinra), an ion channel, e.g., cystic fibrosis transmembrane conductance regulator (CFTR), dystrophin, utrophin, a tumor suppressor, lysosomal enzyme acid a-glucosidase (GAA) and the like, or any functional fragments or variants thereof.

Vectors

[00155] In another aspect, provided herein is a vector comprising a miRNA-based polynucleotide circuit described herein.

[00156] In various embodiments, the vector described herein is a viral vector. In some embodiments, the viral vector is a retroviral vector (e.g., lentiviral vector), an adenovirus vector (e.g., Ad2, Ad5, Ad7 or Ad12), a parvovirus vector (e.g., adeno-associated virus), an influenza virus vector, a herpes virus vector, a poxvirus vector, a rhabdovirus vector (e.g., vesicular stomatitis virus (VSV)), a paramyxovirus vector (e.g., Sendai virus (SeV)), a

morbillivirus vector (e.g., Measles virus, Rabies virus), a reovirus vector, a vaccinia virus vector, a baculoviral vector, or a SV-40-based viral vector.

[00157] In one embodiment, the vector described herein is a lentiviral vector.

[00158] In one embodiment, the vector described herein is a Sendai virus (SeV) vector.

[00159] In one embodiment, the vector described herein is an adeno-associated virus (AAV) vector. In some embodiments the AAV vector is selected from, without limitation, AAV1, AAV2, AAV3, AAV3B, AAV4, AAV5, AAV6, AAV6.2, AAV7, AAV8, AAV9, AAV10, AAV11,AAV type hu11 (AAV hu11), AAV12, AAV13, AAVDJ, AAV retro (AAV retro), Anc80L65, AAVLK03, AAV type rh32.33 (AAVrh.32.33), AAV PHP.S, AAV PHP.B, AAV PHP.eB, AAVrh.64R1, AAVhu.37, AAVrh.8, and AAV2/8,AAV2G9. In some embodiments, the AAV vector is AAV8 vector.

[00160] In some embodiments, the vector is a non-viral vector. In some embodiments, the non-viral vector is a transposon such as, but are not limited to, a PiggyBac transposon and a sleeping beauty transposon. In some embodiments, the vector is a plasmid.

[00161] In one embodiment, the vector described herein is a bacterial vector. For example, the bacterial vector may be a Salmonella, Lactococcus, or Listeria vector.

[00162] In one embodiment, the vector described herein is a phage vector.

[00163] The vectors used herein may naturally or be genetically engineered to target gene delivery to specific cell types or tissues. In some embodiments, the viral vectors described herein may have natural or genetically engineered envelope proteins that interact with cell-type-specific receptors. In some embodiments, the expression of the payload polypeptide in specific tissue or cell types by using tissue or cell type-specific promoters. Promoters that are active in certain tissues or cell types can be used to further regulate the expression of the payload polypeptide described herein.

[00164] As used herein, the term "isolated" means that the referenced material (e.g., a cell or virus) is removed from its native environment. Thus, an isolated biological material can be free of some or all cellular components, i.e., components of the cells in which the native material occurs naturally (e.g., cytoplasmic or membrane component). A material shall be deemed isolated if it is present in a cell extract or supernatant. In the case of nucleic acid molecules, an isolated nucleic acid includes, without limitation, a PCR product, an isolated RNA (e.g., mRNA or miRNA), a DNA (e.g., cDNA), or a restriction fragment. Isolated nucleic acid molecules include sequences inserted into plasmids, cosmids, artificial chromosomes, and the like, i.e., when it forms part of a chimeric recombinant nucleic acid construct. Thus, in a specific embodiment, a recombinant nucleic acid is an isolated nucleic

acid. An isolated protein may be associated with other proteins or nucleic acids, or both, with which it associates in the cell, or with cellular membranes if it is a membrane-associated protein. An isolated organelle, cell, or tissue is removed from the anatomical site in which it is found in an organism. An isolated material may be, but need not be, purified.

[00165] The term "purified" as used herein refers to material that has been isolated under conditions that reduce or eliminate the presence of unrelated materials, i.e., contaminants, including native materials from which the material is obtained. For example, a purified virus is preferably substantially free of host cell or culture components, including tissue culture or egg proteins, non-specific pathogens, and the like. As used herein, the term "substantially free" is used operationally, in the context of analytical testing of the material. Preferably, purified material substantially free of contaminants is at least 50% pure; more preferably, at least 90% pure, and still more preferably at least 99% pure. Purity can be evaluated by chromatography, gel electrophoresis, immunoassay, composition analysis, biological assay, and other methods known in the art.

[00166] Methods for purification are well-known in the art. Viral particles can be purified by ultrafiltration through sucrose cushions or by ultracentrifugation, preferably continuous centrifugation (see Furminger, In: Nicholson, Webster and May (eds.), Textbook of Influenza, Chapter 24, pp. 324-332). Other purification methods are possible and contemplated herein. A purified material may contain less than about 50%, preferably less than about 75%, and most preferably less than about 90%, of the cellular components, media, proteins, or other undesirable components or impurities (as context requires), with which it was originally associated. The term "substantially pure" indicates the highest degree of purity which can be achieved using conventional purification techniques known in the art.

Compositions

[00167] In one aspect, provided herein is a composition comprising a miRNA-based polynucleotide circuit described herein or a vector thereof, and a carrier or excipient. The composition may be used for introducing the miRNA-based polynucleotide circuit described herein to any multicellular organism, including animals, plants and fungi.

[00168] In some embodiments, the composition is a pharmaceutical composition comprising a miRNA-based polynucleotide circuit described herein or a vector thereof, and a pharmaceutically acceptable carrier or excipient. The pharmaceutical composition may be for human or animal usage. Typically, a physician will determine the actual dosage which will be

most suitable for an individual subject and it will vary with the age, weight and response of the particular individual.

[00169] The composition may optionally comprise a pharmaceutically acceptable carrier, diluent, excipient or adjuvant. The choice of pharmaceutical carrier, excipient or diluent can be selected with regard to the intended route of administration and standard pharmaceutical practice. The pharmaceutical compositions may comprise as—or in addition to—the carrier, excipient or diluent any suitable binder(s), lubricant(s), suspending agent(s), coating agent(s), solubilizing agent(s), and other carrier agents that may aid or increase the viral entry into the target site (such as for example a lipid delivery system).

[00170] The compound described herein can be prepared and/or isolated as a pharmaceutically acceptable salt. It will be appreciated that the compound can be zwitterion at a given pH. As used herein, the expression "pharmaceutically acceptable salt" refers to a salt of a given compound, which salt is suitable for pharmaceutical administration. Such salts can be formed, for example, by reacting an acid or base with an amine or carboxylic acid group, respectively.

[00171] Pharmaceutically acceptable acid addition salts can be prepared from inorganic and organic acids. Examples of inorganic acids include hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid and the like. Examples of organic acids include acetic acid, propionic acid, glycolic acid, pyruvate, oxalic acid, malic acid, malonic acid, succinic acid, maleic acid, fumaric acid, tartrate acid, citrate, benzoic acid, cinnamic acid, mandelic acid, Examples thereof include methanesulfonic acid, ethanesulfonic acid, p-toluenesulfonic acid and salicylic acid.

[00172] Pharmaceutically acceptable base addition salts can be prepared from inorganic and organic bases. Corresponding counterions derived from inorganic bases include salts of sodium, potassium, lithium, ammonium, calcium and magnesium. Organic bases include isopropylamine, trimethylamine, diethylamine, triethylamine, tripropylamine, ethanolamine, 2-dimethylaminoethanol, tromethamine, lysine, arginine, histidine, caffeine, prokine, hydrabamine, choline, betaine, ethylenediamine, glucosamine, Substituted amines such as primary, secondary and tertiary amines such as N-alkylglucamine, theobromine, purines, piperazine, piperazine and N-ethylpiperidine, substituted amines such as natural substituted amines and cyclic amines can be mentioned.

[00173] Acid/base addition salts tend to be more soluble in aqueous solvents than the corresponding free acid/base forms.

[00174] In some embodiments, two or more combinations of the compounds of the disclosure may be administered to the subject. The compound (s) may also be administered in combination with one or more additional therapeutic agents. This combination can allow separate, continuous or simultaneous administration with the other active ingredients of the above compounds. This combination may be provided in the form of a pharmaceutical composition.

[00175] As used herein, the term "combination" is used by the combination agents as defined above dependently or independently, or by the use of different fixed combinations with different amounts of combination agents, i.e. simultaneously or at different times. The combination agents can then be administered, for example, simultaneously or staggered in time (i.e., at different times and at equal or different time intervals for any part of the kit). The ratio of the total amount of combination agents administered in a combination can vary, e.g., to address the needs of a subpopulation of patients to be treated or the needs of a single patient, and different needs are the age of the patient, it can be due to gender, weight, etc.

[00176] The route of administration and the type of pharmaceutically acceptable carrier will depend on the condition being treated and the type of mammal. Formulations containing the active compound may be prepared such that the activity of the compound is not disrupted during the process and the compound can reach its site of action without disruption. In some cases, it may be necessary to protect the compound by means known in the art, such as microencapsulation. Similarly, the route of dosing selected should be such that the compound reaches its site of action.

[00177] In some embodiments, the composition further comprises a targeting agent or a carrier that promotes the delivery of the polynucleotide or vector to a target cell or tissue. Exemplary carriers include liposomes, micelles, nanodisperse albumin and its modifications, polymer nanoparticles, dendrimers, inorganic nanoparticles of different compositions.

[00178] The appropriate formulation for the compound of the disclosure can be adjusted for pH. Buffer systems are routinely used to provide pH values in the desired range and include carboxylic acid buffers such as acetates, citrates, lactates and succinates. In some embodiments, the composition is formulated to have a pH range of about 4.5 to about 9.0, including for example pH ranges of about any of 5.0 to about 8.0, about 6.5 to about 7.5, and about 6.5 to about 7.0. In some embodiments, the pH of the composition is formulated to no less than about 6, including for example no less than about any of 6.5, 7, or 8 (such as about 8). The composition can also be made to be isotonic with blood by the addition of a suitable tonicity modifier, such as glycerol.

[00179] The formulation may also include suitable excipients, such as antioxidants. Examples of antioxidants include phenolic compounds such as BHT or Vitamin E, reducing agents such as methionine or sulfites, and metal chelating agents such as EDTA.

[00180] Where appropriate, the pharmaceutical compositions can be administered by any one or more of: inhalation, in the form of a suppository or pessary, topically in the form of a lotion, solution, cream, ointment or dusting powder, by use of a skin patch, orally in the form of tablets containing excipients such as starch or lactose, or in capsules or ovules either alone or in admixture with excipients, or in the form of elixirs, solutions or suspensions containing flavoring or coloring agents, or they can be injected parenterally, for example intracavernosally, intravenously, intramuscularly or subcutaneously. For parenteral administration, the compositions may be best used in the form of a sterile aqueous solution which may contain other substances, for example enough salts or monosaccharides to make the solution isotonic with blood. For buccal or sublingual administration, the compositions may be administered in the form of tablets or lozenges which can be formulated in a conventional manner.

[00181] In some embodiments, the compounds or pharmaceutically acceptable salts thereof described herein can be prepared in parenteral dosage forms such as those suitable for, e.g., intravascular (intravenous or intraarterial), intraperitoneal, intratumoral, intraventricular, intrapleural or intramuscular administration delivery. Suitable pharmaceutical forms for injectable use include sterile injectable or dispersions and sterile powders for the immediate preparation of sterile injectable solutions. They must be stable under manufacturing and storage conditions and protected from reduction or oxidation and the contaminating effects of microorganisms such as bacteria or fungi.

[00182] The solvent or dispersion medium for the injectable solution or dispersion may include either conventional solvents or carrier systems for the active compound, e.g., water, ethanol, polyols (e.g., glycerol, propylene glycol and). Liquid polyethylene glycol, etc., suitable mixtures thereof, and vegetable oils may be included. Proper fluidity can be maintained, for example, by the use of a coating such as lecithin, the maintenance of the required particle size in the case of dispersions, and the use of surfactants. Prevention of the action of microorganisms can be performed as needed by incorporating various antibacterial and antifungal agents such as parabens, chlorobutanol, phenol, sorbic acid, thimerosal and the like. In many cases, it may be preferable to include agents that regulate osmotic pressure, such as sugar or sodium chloride. Preferably, the injectable formulation is isotonic with blood. Sustained absorption of the injectable composition can be brought about by the use of

agents that delay absorption (e.g., aluminum monostearate and gelatin) in the composition. Suitable pharmaceutical forms for injection can be delivered by any suitable route, including intravenous, intramuscular, intracerebral, intrathecal, epidural injection or infusion.

[00183] Sterilized injectable solutions are prepared by adding the required amount of the compounds of the disclosure to a suitable solvent containing various other components, such as those listed above, as needed, followed by filtration sterilization. Generally, dispersions are prepared by incorporating various sterile active ingredients into a sterile vehicle containing a basic dispersion medium and other required ingredients from those described above. For sterile powders for the preparation of sterile injectable solutions, the preferred method of preparation is vacuum drying or lyophilization of the pre-sterile filtered solution of the active ingredient plus any additional desired ingredients.

[00184] Other pharmaceutical forms include the oral and enteral formulations, where the active compound can be formulated with an inert diluent or an assimilated edible carrier, or encapsulated in hard or softshell gelatin capsules. The formulations can also be tableted, or it can be incorporated directly into diet foods. For oral therapeutic administration, the active compound is taken up with excipients and used in the form of ingestible tablets, buccal or sublingual tablets, troches, capsules, elixirs, suspensions, syrups, wafers, etc. The amount of active compound in such a therapeutically useful composition is such that an appropriate dose can be obtained.

[00185] Tablets, lozenges, pills, capsules, etc. may also contain the ingredients listed below: binders such as gum, acacia, corn starch or gelatin; excipients such as dicalcium phosphate; corn starch, Disintegrants such as potato starch, arginic acid; lubricants such as magnesium stearate; sweeteners such as sucrose, lactose or saccharin, or flavors such as peppermint, winter green oil, or cherry flavor may be added. If the dosage unit form is a capsule, it may contain a liquid carrier in addition to the above types of materials. Various other materials may be present as a coating or in other ways to alter the physical form of the dosage unit. For example, tablets, pills, or capsules can be coated with shellac, sugar, or both. The syrup or elixir may contain active compounds, sucrose as a sweetener, methyl and propylparabens as preservatives, pigments and flavors such as cherry or orange flavors. Of course, any substance used to prepare the dosage unit form must be pharmaceutically pure and substantially non-toxic in the amount used. In addition, the compounds of the disclosure may be incorporated into sustained release formulations and formulations comprising those that specifically deliver the active peptide to a particular region of the intestine.

[00186] Liquid formulations can also be administered enterally via the stomach or esophageal canal. The enteral preparation can be prepared in the form of a suppository by mixing with a suitable base such as an emulsifying base or a water-soluble base. It is possible, but not necessary, to administer the compound of the present disclosure topically, intranasally, intravaginally, intraocularly or the like.

[00187] Pharmaceutically acceptable vehicles and / or diluents include any and all solvents, dispersion media, coatings, antibacterial and antifungal agents, isotonic and absorption retarders, and the like. The use of such vehicles and agents for pharmaceutically active substances is well known in the art. Its use in therapeutic compositions is intended unless any conventional vehicle or agent is incompatible with the active ingredient. Auxiliary active ingredients can also be incorporated into the composition.

[00188] It is particularly advantageous to formulate the composition in unit dosage form for ease of administration and uniformity of dosage. As used herein, a dosage unit form means a physically distinct unit suitable as a unit dosage for a mammalian subject to be treated; each unit is a required pharmaceutically acceptable vehicle. A dosage unit form may contain a predetermined amount of active substance calculated to produce a desired therapeutic effect described herein. Details of the novel dosage unit forms of the disclosure include (a) the unique properties of the active substance and the particular therapeutic effect to be achieved, and (b) physical health as disclosed in detail herein. It is determined by and directly dependent on the technology-specific limitations of the active substances formulated for the treatment of the disease in living subjects with impaired disease states.

[00189] As mentioned above, the main active ingredient may be formulated for convenient and effective administration in therapeutically effective amounts using a suitable pharmaceutically acceptable vehicle in the form of a dosage unit. The unit dosage form can contain, for example, the major active compound in an amount ranging from 0.25 μg to about 2000 mg. Expressed in proportion, the active compound may be present in a carrier of about 0.25 μg to about 2000 mg / mL. In the case of a composition containing an auxiliary active ingredient, the dose is determined with reference to the usual dosage and mode of administration of the ingredient.

[00190] In some embodiments, the composition is suitable for administration to a human. In some embodiments, the composition is suitable for administration to a mammal such as, in the veterinary context, domestic pets and agricultural animals. There are a wide variety of suitable formulations of the composition comprising the inhibitor of endocytosis. The following formulations and methods are merely exemplary and are in no way limiting.

Formulations suitable for oral administration can consist of (a) liquid solutions, such as an effective amount of the compound dissolved in diluents, such as water, saline, or orange juice, (b) capsules, sachets or tablets, each containing a predetermined amount of the active ingredient, as solids or granules, (c) suspensions in an appropriate liquid, and (d) suitable emulsions. Tablet forms can include one or more of lactose, mannitol, corn starch, potato starch, microcrystalline cellulose, acacia, gelatin, colloidal silicon dioxide, croscarmellose sodium, talc, magnesium stearate, stearic acid, and other excipients, colorants, diluents, buffering agents, moistening agents, preservatives, flavoring agents, and pharmacologically compatible excipients. Lozenge forms can comprise the active ingredient in a flavor, usually sucrose and acacia or tragacanth, as well as pastilles comprising the active ingredient in an inert base, such as gelatin and glycerin, or sucrose and acacia, emulsions, gels, and the like containing, in addition to the active ingredient, such excipients as are known in the art.

[00191] Examples of suitable carriers, excipients, and diluents include, but are not limited to, lactose, dextrose, sucrose, sorbitol, mannitol, starches, gum acacia, calcium phosphate, alginates, tragacanth, gelatin, calcium silicate, microcrystalline cellulose, polyvinylpyrrolidone, cellulose, water, saline solution, syrup, methylcellulose, methyl and propylhydroxybenzoates, talc, magnesium stearate, and mineral oil. In some embodiments, the composition comprising the inhibitor of endocytosis with a carrier as discussed herein is present in a dry formulation (such as lyophilized composition). The formulations can additionally include lubricating agents, wetting agents, emulsifying and suspending agents, preserving agents, sweetening agents or flavoring agents.

[00192] Formulations suitable for parenteral administration include aqueous and non-aqueous, isotonic sterile injection solutions, which can contain anti-oxidants, buffers, bacteriostats, and solutes that render the formulation compatible with the blood of the intended recipient, and aqueous and non-aqueous sterile suspensions that can include suspending agents, solubilizers, thickening agents, stabilizers, and preservatives. The formulations can be presented in unit-dose or multi-dose sealed containers, such as ampules and vials, and can be stored in a freeze-dried (lyophilized) condition requiring only the addition of the sterile liquid excipient, for example, water, for injections, immediately prior to use. Extemporaneous injection solutions and suspensions can be prepared from sterile powders, granules, and tablets of the kind previously described.

Host cells

[00193] In one aspect, provided herein is a host cell comprising a polynucleotide or a vector of the present disclosure. The host cell can be either prokaryotic or eukaryotic. Bacterial cells may be preferred prokaryotic host cells in some circumstances and typically are a strain of *E. coli* such as, for example, the *E. coli* strains DH5 and RR1. Non-limiting examples of eukaryotic host cells include yeast, insect, and mammalian cells (e.g., from a mouse, rat, monkey, or human cell lines). Non-limiting examples of yeast host cells include, e.g., YPH499, YPH500, and YPH501. Non-limiting examples of mammalian host cells include Chinese hamster ovary (CHO) cells, NIH Swiss mouse embryo cells NIH/3T3, monkey kidney-derived COS-1 cells, and 293 cells which are human embryonic kidney cells. Examples of insect cells include Sf9 cells, which can be transfected with baculovirus expression vectors.

[00194] Transformation of appropriate cell hosts with a polynucleotide construct of the present disclosure can accomplished by well-known methods that typically depend on the type of vector used. Successfully transformed cells, i.e. cells that contain a polynucleotide construct of the present disclosure, can be identified by, for example, PCR. Alternatively, the presence of the protein in the supernatant can be detected using antibodies.

Methods For Selective Expression of Payload Polypeptides

[00195] In one aspect, provided herein is a method of selectively expressing a payload polypeptide in a target cell type or tissue or a cell in a specific state within a multicellular organism, comprising introducing to the subject an effective amount of the polynucleotide, or the vector, or the composition (e.g., pharmaceutical composition) of the present disclosure.

[00196] The miRNA-based polynucleotide circuits may be administered to a subject or used to produce a transgenic fungus, plant or non-human animal. The term "administered" includes delivery by viral or non-viral techniques. Viral delivery mechanisms include but are not limited to adenoviral vectors, adeno-associated viral (AAV) vectors, herpes viral vectors, retroviral vectors (e.g., lentiviral vectors), and baculoviral vectors etc. as described above. Non-viral delivery mechanisms include lipid mediated transfection, liposomes, immunoliposomes, lipofectin, cationic facial amphiphiles (CFAs) and combinations thereof.

[00197] The delivery of one or more payloads by a miRNA-based polynucleotide circuit according to the invention may be used alone or in combination with other treatments or components of the treatment. Diseases which may be treated include, but are not limited to:

cancer, neurological diseases, inherited diseases, heart disease, stroke, arthritis, viral infections and diseases of the immune system.

EXAMPLES

[00198] The following examples are provided to further describe some of the embodiments disclosed herein. The examples are intended to illustrate, not to limit, the disclosed embodiments.

Example 1. Bicistronic RNA Encoding Epitope

[00199] To generate a miRNA-dependent RNA-based program, the ribosomal frameshift motif of EMCV, a member of the cardiovirus family, was incorporated between two genes, one encoding a Myc-epitope tagged green fluorescent protein (Myc-GFP) and the other encoding a Flag-epitope tagged mCherry protein (Flag mCherry) (**Fig. 3A**). The mCherry transcript was encoded in this element in a -1 reading frame relative to Myc-GFP. However, the addition of the ribosomal frameshift element was inserted so that the stem loop (SL) would shift the ribosome in the presence of the 2A protein enabling expression of both Myc-GFP and Flag-mCherry (**Fig. 3A**). Transfection of this construct design (GFP-PRS-Cherry) or one in which the SL was mutated (GFP-PRSmut-Cherry) then allowed ascertaining of the expression of Myc-GFP and/or mCherry in conditions where either wild type 2A protein or a mutated form of it (m2A) was also present (**Fig. 3B**). Western blot analyses of these various conditions demonstrated that Flag-mCherry expression could only be detected in the presence of the wild type 2A protein and a functional SL element.

Example 2. miRNA-Dependent Expression Construct

[00200] To adapt the aforementioned circuitry to achieve expression only in the presence of a miRNA, a lentivirus-based construct encoding mCherry as the biologic cargo was designed (**Fig. 4A**). In an effort to build a construct wherein the cargo production would be limited to cells expressing a desired miRNA, the 2A protein was incorporated downstream of the long terminal repeat of the lentivirus genome and included two miR-21 target sites into the 3' untranslated region of the 2A transcript. In addition to this, a weak 5' splice site was also incorporated into the 2A transcript (denoted by the hatched line in **Fig. 4A**). As the 3' splice site was incorporated downstream of the miR-21 targeting elements, alternative spliced transcripts, unlike 2A, would not be subjected to RNAi-mediated silencing as the transcript would not include the miRNA silencing element (MSE). However, downstream of the 3' splice site, the 2A-dependent PRS stem loop (SL) was incorporated to be encoded in frame

with a Myc-epitope tagged mCherry open reading frame. Based on this design, in the absence of miR-21, 2A expression is anticipated to be high and subsequently induce a frameshift in the translation of mCherry, rendering the protein out of frame. In contrast, in the presence of miR-21, 2A expression is silenced and the ribosomal frame shift does not occur enabling canonical production of mCherry. As a result, mCherry expression can proceed in frame, but only in miR-21-expressing cells. To formally demonstrate this, lentiviruses encoding this miRNA-based circuit were generated and used to transduce either wild type MDCK cells or MDCK cells lacking miR-21 which have been previous described ($MDCK^{miR\text{-}21\text{-}/\text{-}}$)[14]. These efforts yielded mCherry expression only in the presence of miR-21 (**Fig. 4B**).

Example 3. miRNA-Dependent Expression Construct

[00201] Human Embryonic Kidney 293T cells (HEK293T) possess a unique combination of kidney epithelial cell and fibroblast characteristics. Recent miRNA profiling of HEK293T cells has demonstrated the presence of miR-21 and an absence of miR-124. Conversely, U-87 human glioblastoma cells, originating from a malignant brain tumor, exhibit the opposite miRNA expression pattern, with abundant miR-124 expression but an absence of miR-21. Using these two cell systems, the functionality of a miR-21- and a miR-124- specific RNA-based circuit was tested in the context of either Adeno-associated virus (AAV) serotype 2 (AAV2) or a lentivirus-based vector. For both constructs, the 2A gene product and the mCherry cargo were under the control of a CMV promoter. The 2A gene is encoded as an uninterrupted open reading frame (ORF) in which the 3'UTR contained either two miRNA target sites complementary to either miR-21 or miR-124. The mCherry transcript is encoded as an alternatively spliced construct, in which removal of the intron removes the miRNA silencing elements (MSEs) but retains the programmable ribosomal shift element in frame with mCherry. In the presence of 2A, mCherry would shift to a -1 frame resulting in a loss of the functional protein.

[00202] To test these constructs, 293T cells were treated with AAV2 (MOI 50) or lentiviruses (MOI 5) containing either no 2A protein (mCherry) or the circuits depicted containing either miR-21 target sites or miR-124 target sites. Five days post transduction, fluorescence was measured by microscopy to reveal that amongst the 2A-containing constructs, mCherry expression was confined to the construct containing miR-21 target sites for both the AAV2- and lentivirus-based constructs (**Fig. 6**). This experiment was then repeated in U-87 cells. However, as AAV2 was unable to transduce this glioblastoma cell line, testing was limited to the lentivirus-based miR-21 and miR-124 constructs. U-87 cells were transduced with the indicated lentiviruses (MOI 5) and five days later were analyzed by

microscopy. These data demonstrate that in these cells, only the miR-124 based RNA lentivirus expresses mCherry (**Fig. 7**).

Example 4. miRNA-Dependent Expression Construct using a Bi-directional Promoter

[00203] A plasmid encoding eGFP as two independent exons was constructed wherein the intron contained the pre-cursors for either *Homo sapien* miR-21 (hsa-miR-21) or miR-375 (hsa-miR-375) (**Fig. 9A**). A lentiviral genome comprising a bi-directional promoter was designed to express an EMCV 2A frameshift protein harboring two miR-21 target sites in the 3' UTR and an in-frame mCherry transcript harboring a 5' stem loop (SL) comprising the EMCV programable ribosomal shift (PRS) element (**Fig. 9B**). The human promoter for 3-phosphoglycerate kinase (hPGK) (SEQ ID NO. 13) was used in one direction and a minimal cytomegalovirus (CMV) promoter (SEQ ID NO. 14) was used in the other direction. To test these constructs, 293 cells were co-transfected with the pLenti-2A-miR-21-PRS-mCherry plasmid and a pcDNA-eGFP construct expressing either miR-21 or miR-375. Three days post treatment, fluorescent microscopy of the co-transfected 293 cells was performed. Images taken at 3 days post treatment are shown in **Fig. 9C**. The results showed efficient mCherry expression in the presence of miR-21.

Example 5. miRNA-Dependent Expression Construct in a Sendai Virus

[00204] In this Example, Sendai virus was used as a delivery vector. Sendai virus is an advantageous delivery vector as it encodes its genes as individual cistrons and is therefore easy to engineer with the miRNA-based circuit. An engineered Sendai virus genome was constructed to encode a microRNA-21 (miR-21)-targeted (miR-21T) transcript encoding the EMCV 2A protein (2A) and an in-frame mCherry transcript harboring a 5' stem loop (SL) comprising either a functional or mutated (SLmut) version of the EMCV programable ribosomal shift (PRS) element. 2A and mCherry were designed to express as individual transcripts introduced between the Nucleocapsid (N) and Phosphoprotein (P) viral genes, and the Matrix (M), Fusion (F), Hemagglutinin-Neuraminidase (HN) and Large (L) polymerase (**Fig. 10A**). mCherry expression was analyzed by fluorescent microscopy in wild type Madin-Darby Canine Kidney (MDCK) cells, or a clonal MDCK line in which miR-21 expression was disrupted ($MDCK^{miR\text{-}21\text{-}/\text{-}}$). Panels shown in **Fig.10B** denote cells infected with the recombinant viruses denoted in **Fig. 10A** at a multiplicity of infection of 5 at 48 hours post infection. mCherry expression was not detected in the absence of miR-21 and a functional SL element was required for the off-switch.

Example 6. *In vivo* Evaluation of miRNA-Dependent Expression Construct in a Sendai virus

[00205] A Sendai virus vector was engineered to express the 2A protein with three miR-503 targets in its 3' UTR (**Fig. 11A**). miR-503 expression is restricted to AT1/2 cells of the airways. In addition, the Sendai virus vector also encodes a red fluorescent protein (RFP) with either a wild type or mutated programable ribosomal shift (PRS) element in its 5'UTR. These two viral vectors were administered intranasally to Balb/c mice (400 hemagglutination units (HAU)) and lungs were harvested at 48 hours post treatment. Half of the lung was sectioned and analyzed for RFP expression by IHC (**Fig. 11B**). The other half of the lung was homogenized and sorted for RFP positive cells. RNA-Seq data of these two conditions were then aligned and were compared to identify genes enriched in the cells containing Sendai expressing the functional PRS element. **Fig. 11C** depicts a volcano plot of differentiated genes from RFP+ cells, showing that two genes, namely AQP5 and SFTPC, were significantly enriched. As both of these genes are predominantly expressed in AT1/2 cells, these data suggested that the vector functioned as designed.

References

1 Paunovska, K., Loughrey, D. & Dahlman, J. E. Drug delivery systems for RNA therapeutics. *Nat Rev Genet* **23**, 265-280 (2022).

2 Pardi, N., Hogan, M. J., Porter, F. W. & Weissman, D. mRNA vaccines - a new era in vaccinology. *Nat Rev Drug Discov* **17**, 261-279 (2018).

3 Bulcha, J. T., Wang, Y., Ma, H., Tai, P. W. L. & Gao, G. Viral vector platforms within the gene therapy landscape. *Signal Transduct Target Ther* **6**, 53 (2021).

4 Sung, Y. K. & Kim, S. W. Recent advances in the development of gene delivery systems. *Biomater Res* **23**, 8 (2019).

5 Perez, J. T. *et al.* MicroRNA-mediated species-specific attenuation of influenza A virus. *Nat Biotechnol* **27**, 572-576 (2009).

6 Langlois, R. A. *et al.* MicroRNA-based strategy to mitigate the risk of gain-of-function influenza studies. *Nat Biotechnol* **31**, 844-847 (2013).

7 Langlois, R. A., Varble, A., Chua, M. A., Garcia-Sastre, A. & tenOever, B. R. Hematopoietic-specific targeting of influenza A virus reveals replication requirements for induction of antiviral immune responses. *Proc Natl Acad Sci U S A* **109**, 12117-12122 (2012).

8 Benitez, A. A., Spanko, L. A., Bouhaddou, M., Sachs, D. & tenOever, B. R. Engineered Mammalian RNAi Can Elicit Antiviral Protection that Negates the Requirement for the Interferon Response. *Cell Rep* **13**, 1456-1466 (2015).

9 Aguado, L. C. *et al.* Homologous recombination is an intrinsic defense against antiviral RNA interference. *Proc Natl Acad Sci U S A* **115**, E9211-E9219 (2018).

10 Bartel, D. P. Metazoan MicroRNAs. *Cell* **173**, 20-51 (2018).

11 Bartel, D. P. MicroRNAs: genomics, biogenesis, mechanism, and function. *Cell* **116**, 281-297 (2004).

12 tenOever, B. R. RNA viruses and the host microRNA machinery. *Nat Rev Microbiol* **11**, 169-180 (2013).

13 Hill, C. H. *et al.* Structural and molecular basis for Cardiovirus 2A protein as a viral gene expression switch. *Nat Commun* **12**, 7166 (2021).

14 Waring, B. M. *et al.* MicroRNA-Based Attenuation of Influenza Virus across Susceptible Hosts. *J Virol* **92** (2018).

* * *

[00206] The present invention is not to be limited in scope by the specific embodiments described herein. Indeed, various modifications of the invention in addition to those described herein will become apparent to those skilled in the art from the foregoing description. Such modifications are intended to fall within the scope of the appended claims.

[00207] All patents, applications, publications, test methods, literature, and other materials cited herein are hereby incorporated by reference in their entirety as if physically present in this specification.

Claims

1. A polynucleotide comprising:
   a) a nucleotide sequence encoding a ribosomal frameshift stimulator;
   b) one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of said one or more MSE sequences is targeted by a miRNA, and wherein each of said one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the ribosomal frameshift stimulator in the absence of the respective miRNA targeting said MSE sequence;
   c) a first ribosomal frameshift element;
   d) a nucleotide sequence encoding a first payload polypeptide, wherein the first ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the first payload polypeptide, and wherein translation of the first payload polypeptide is controlled by the first ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator; and
   e) optionally one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, wherein within each combination, the ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the payload polypeptide, wherein translation of each additional payload polypeptide is controlled by its closest 5' ribosomal frameshift element in the resulting mRNA and independently requires either the presence or absence of the ribosomal frameshift stimulator.

2. The polynucleotide of claim 1, wherein the one or more MSE sequences are positioned in the open reading frame (ORF) or in the 3' untranslated region (3' UTR) of the ribosomal frameshift stimulator transcript coding sequence.

3. The polynucleotide of claim 1 or claim 2, wherein the polynucleotide further comprises a first promoter, and wherein expression of the ribosomal frameshift stimulator is under the control of the first promoter.

4. The polynucleotide of claim 3, wherein expression of the first payload polypeptide is under the control of the first promoter.

5. The polynucleotide of claim 4, wherein the polynucleotide is structured as an alternatively spliced construct, and wherein one transcript comprises the nucleotide sequence encoding the ribosomal frameshift stimulator and one or more MSE sequences, and another transcript comprises the first ribosomal frameshift element and the nucleotide sequence encoding the first payload polypeptide.

6. The polynucleotide of claim 5, wherein the polynucleotide further comprises a 5' donor splice site and a 3' acceptor splice site.

7. The polynucleotide of claim 6, wherein the 5' donor splice site comprises the sequence AG*GU(A/G)AGU or AG*GU(A/G)GAU, wherein * denotes the splice junction.

8. The polynucleotide of claim 6 or claim 7, wherein the 3' acceptor splice site comprises a branch point, a pyrimidine tract, and the sequence AG*G, wherein * denotes the splice junction.

9. The polynucleotide of any one of claims 4-8, wherein the polynucleotide comprises one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, and wherein expression of the first payload polypeptide and the one or more additional payload polypeptides is under the control of the first promoter.

10. The polynucleotide of any one of claims 4-8, wherein the polynucleotide comprises one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, and wherein expression of the first payload polypeptide is under the control of the first promoter, and expression of each of the additional payload polypeptides is under the control of respective additional promoters.

11. The polynucleotide of claim 3, wherein the polynucleotide further comprises a second promoter, wherein expression of the first payload polypeptide is under the control of the second promoter.

12. The polynucleotide of claim 11, wherein the polynucleotide comprises one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, and wherein expression of each of the additional payload polypeptides is under the control of respective additional promoters.

13. The polynucleotide of claim 11, wherein the polynucleotide further comprises one or more DNA insulator elements, wherein said one or more DNA insulator elements are positioned between the 3'UTR of the ribosomal frameshift stimulator transcript coding sequence and the second promoter, and wherein said DNA one or more DNA insulator elements enhance efficiency of termination of transcription of the ribosomal frameshift stimulator.

14. The polynucleotide of claim 12, wherein the polynucleotide further comprises one or more DNA insulator elements, wherein said DNA insulator elements are positioned between the 3'UTR of each subsequent transcript and each subsequent promoter, and wherein said DNA insulator elements enhance efficiency of termination of transcription.

15. The polynucleotide of claim 13 or claim 14, wherein said DNA insulator element comprises CCCTC-binding factor site(s).

16. The polynucleotide of any one of claims 1-15, wherein the nucleotide sequence encoding the first payload polypeptide is positioned in frame with the first ribosomal frameshift element.

17. The polynucleotide of any one of claims 1-15, wherein the nucleotide sequence encoding the first payload polypeptide is positioned in -1 translation frame in relation to the first ribosomal frameshift element.

18. The polynucleotide of claim 16 or claim 17, wherein the polynucleotide comprises one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, and wherein the nucleotide sequence encoding each additional payload polypeptide is independently positioned in frame or in -1 translation frame in relation to its closest 5' ribosomal frameshift element in the resulting mRNA.

19. A polynucleotide comprising from 5' to 3':
    a) a first promoter;
    b) a 5' donor splice site;
    c) a nucleotide sequence encoding a ribosomal frameshift stimulator;
    d) one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of said one or more MSE sequences is targeted by a miRNA, and wherein each of said one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the ribosomal frameshift stimulator in the absence of the respective miRNA targeting said MSE sequence;
    e) a 3' splice acceptor site;
    f) a first ribosomal frameshift element; and
    g) a nucleotide sequence encoding a first payload polypeptide,
    wherein the first ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the first payload polypeptide,
    wherein translation of the first payload polypeptide is controlled by the first ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and
    wherein the nucleotide sequence encoding the first payload polypeptide is positioned in frame or in -1 translation frame in relation to the first ribosomal frameshift element.

20. The polynucleotide of claim 19, wherein the polynucleotide further comprises 3' to the nucleotide sequence encoding the first payload polypeptide from 5' to 3':
    h) a second promoter;
    i) a second ribosomal frameshift element, and
    j) a nucleotide sequence encoding a second payload polypeptide,
    wherein the second ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the second payload polypeptide,
    wherein translation of the second payload polypeptide is controlled by the second ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and

wherein the nucleotide sequence encoding the second payload polypeptide is positioned in frame or in -1 translation frame in relation to the second ribosomal frameshift element.

21. The polynucleotide of claim 20, wherein the polynucleotide further comprises a DNA insulator element, wherein said DNA insulator element is positioned between the nucleotide sequence encoding the first payload polypeptide and the second promoter, and wherein said DNA insulator element enhances efficiency of termination of transcription.

22. The polynucleotide of any one of claims 19-21, wherein the 5' donor splice site comprises the sequence AG*GU(A/G)AGU or AG*GU(A/G)GAU, wherein * denotes the splice junction.

23. The polynucleotide of any one of claims 19-22, wherein the 3' acceptor splice site comprises a branch point, a pyrimidine tract, and the sequence AG*G, wherein * denotes the splice junction.

24. A polynucleotide comprising from 5' to 3':

a) a first promoter;
b) a nucleotide sequence encoding a ribosomal frameshift stimulator;
c) one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of said one or more MSE sequences is targeted by a miRNA, and wherein each of said one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the ribosomal frameshift stimulator in the absence of the respective miRNA targeting said MSE sequence,
d) a second promoter;
e) a first ribosomal frameshift element, and
f) a nucleotide sequence encoding a first payload polypeptide,

wherein the first ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the first payload polypeptide,

wherein translation of the first payload polypeptide is controlled by the first ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and
wherein the nucleotide sequence encoding the first payload polypeptide is positioned in frame or in -1 translation frame in relation to the first ribosomal frameshift element.

25. The polynucleotide of claim 24, wherein the polynucleotide further comprises a DNA insulator element, wherein said DNA insulator element is positioned between the 3'UTR of the ribosomal frameshift stimulator transcript coding sequence and the second promoter, and wherein said DNA insulator element enhances efficiency of termination of transcription.

26. The polynucleotide of claim 24 or claim 25, wherein the polynucleotide further comprises 3' to the nucleotide sequence encoding the first payload polypeptide from 5' to 3':

g) a third promoter;
h) a second ribosomal frameshift element, and
i) a nucleotide sequence encoding a second payload polypeptide,
wherein the second ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the second payload polypeptide,
wherein translation of the second payload polypeptide is controlled by the second ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and
wherein the nucleotide sequence encoding the second payload polypeptide is positioned in frame or in -1 translation frame in relation to the second ribosomal frameshift element.

27. The polynucleotide of claim 26, wherein the polynucleotide further comprises a DNA insulator element, wherein said DNA insulator element is positioned between the nucleotide sequence encoding the first payload polypeptide and the third promoter, and wherein said DNA insulator element enhances efficiency of termination of transcription.

28. The polynucleotide of any one of claims 3-27, wherein the first promotor is an RNA polymerase II promoter.

29. The polynucleotide of claim 28, wherein the first promoter is a cytomegalovirus (CMV) promoter, a simian virus 40 (SV40) promoter, a human elongation factor 1 alpha (EF1α) promoter, or a phosphoglycerate kinase (PGK) promoter.

30. The polynucleotide of any one of claims 11-15 and 20-27, wherein the second promoter is an RNA polymerase II promoter.

31. The polynucleotide of claim 30, wherein the second promoter is a cytomegalovirus (CMV) promoter, a simian virus 40 (SV40) promoter, a human elongation factor 1 alpha (EF1α) promoter, or a phosphoglycerate kinase (PGK) promoter.

32. The polynucleotide of claim 26 or claim 27, wherein the third promoter is an RNA polymerase II promoter.

33. The polynucleotide of claim 32, wherein the third promoter is a cytomegalovirus (CMV) promoter, a simian virus 40 (SV40) promoter, a human elongation factor 1 alpha (EF1α) promoter, or a phosphoglycerate kinase (PGK) promoter.

34. The polynucleotide of claim 4, wherein the first promoter is a bi-directional promoter which drives expression of the ribosomal frameshift stimulator in one direction and the first payload polypeptide in the opposite direction.

35. A polynucleotide comprising from 5' to 3':

a) one or more microRNA (miRNA) Silencing Element (MSE) sequences, wherein each of said one or more MSE sequences is targeted by a miRNA,
b) a nucleotide sequence encoding a ribosomal frameshift stimulator, wherein each of said one or more MSE sequences is positioned with respect to the nucleotide sequence encoding the ribosomal frameshift stimulator to allow expression of the ribosomal frameshift stimulator in the absence of the respective miRNA targeting said MSE sequence;
c) a bi-directional promoter;

d) a first ribosomal frameshift element;

e) a nucleotide sequence encoding a first payload polypeptide, wherein the first ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the first payload polypeptide, wherein translation of the first payload polypeptide is controlled by the first ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and wherein the bi-directional promoter drives expression of the ribosomal frameshift stimulator in one direction and the first payload polypeptide in the opposite direction; and

f) optionally one or more additional combinations of a ribosomal frameshift element and a nucleotide sequence encoding a payload polypeptide, wherein within each combination, the ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the payload polypeptide, wherein translation of each additional payload polypeptide is controlled by its closest 5' ribosomal frameshift element in the resulting mRNA and independently requires either the presence or absence of the ribosomal frameshift stimulator,

36. The polypeptide of claim 34 or claim 35, wherein bi-directional promoter is selected from human promoter for 3-phosphoglycerate kinase (hPGK) promoter, a minimal Cytomegalovirus (CMV) promoter, TRE3G promoter, Ponasterone A, and combinations thereof.

37. The polynucleotide of any one of claims 1-36, wherein the ribosomal frameshift stimulator is a cardiovirus 2A protein.

38. The polynucleotide of claim 37, wherein the cardiovirus 2A protein comprises the amino acid sequence MSPNALDISRTYPTLHVLIQFNHRGLEVRLFRHGHFWAETRADVILRSKTK QVSFLSNGNYPSMDSRAPWNPWKNTYQAVLRAEPCRVTMDIYYKRVRPF RLPLVQKEWPVREENVFGLYRIFNAHYAGYFADLLIHDIETNPG (SEQ ID NO: 1), or a variant thereof.

39. The polynucleotide of claim 38, wherein the cardiovirus 2A protein consists of the amino acid sequence MSPNALDISRTYPTLHVLIQFNHRGLEVRLFRHGHFWAETRADVILRSKTK

QVSFLSNGNYPSMDSRAPWNPWKNTYQAVLRAEPCRVTMDIYYKRVRPF RLPLVQKEWPVREENVFGLYRIFNAHYAGYFADLLIHDIETNPG (SEQ ID NO: 1), or a variant thereof.

40. The polynucleotide of claim 37, wherein the nucleotide sequence encoding the cardiovirus 2A protein comprises the sequence ATGAGTCCAAATGCCCTAGACATTTCAAGAACATACCCCACGTTACAT GTTCTCATTCAATTCAACCATAGAGGTTTGGAGGTTAGATTGTTTAGAC ATGGACACTTTTGGGCTGAAACACGTGCGGACGTGATTCTGAGATCAA AGACCAAACAGGTCTCTTTCCTGAGCAACGGGAACTACCCGTCAATGG ACTCTAGAGCTCCCTGGAATCCTTGGAAGAATACCTACCAGGCGGTTC TAAGAGCAGAACCATGTAGAGTGACCATGGATATATATTATAAGAGA GTCAGGCCTTTTAGACTGCCCCTGGTTCAGAAGGAATGGCCCGTGCGA GAGGAGAACGTTTTCGGTTTGTACCGGATCTTCAATGCCCACTACGCT GGTTACTTTGCGGACCTACTGATTCATGACATTGAGACAAATCCAGGG TAG (SEQ ID NO: 2), or a variant thereof.

41. The polynucleotide of claim 40, wherein the nucleotide sequence encoding the cardiovirus 2A protein consists of the sequence ATGAGTCCAAATGCCCTAGACATTTCAAGAACATACCCCACGTTACAT GTTCTCATTCAATTCAACCATAGAGGTTTGGAGGTTAGATTGTTTAGAC ATGGACACTTTTGGGCTGAAACACGTGCGGACGTGATTCTGAGATCAA AGACCAAACAGGTCTCTTTCCTGAGCAACGGGAACTACCCGTCAATGG ACTCTAGAGCTCCCTGGAATCCTTGGAAGAATACCTACCAGGCGGTTC TAAGAGCAGAACCATGTAGAGTGACCATGGATATATATTATAAGAGA GTCAGGCCTTTTAGACTGCCCCTGGTTCAGAAGGAATGGCCCGTGCGA GAGGAGAACGTTTTCGGTTTGTACCGGATCTTCAATGCCCACTACGCT GGTTACTTTGCGGACCTACTGATTCATGACATTGAGACAAATCCAGGG TAG (SEQ ID NO: 2), or a variant thereof.

42. The polynucleotide of any one of claims 1-41, wherein the first ribosomal frameshift element comprises from 5' to 3':
    1) a 5' shift site,
    2) a spacer sequence, and

3) a stem-loop structure.

43. The polynucleotide of any one of claims 20-23, 26 and 27, wherein the second ribosomal frameshift element comprises from 5' to 3':
    1) a 5' shift site,
    2) a spacer sequence, and
    3) a stem-loop structure.

44. The polynucleotide of claim 42 or claim 43, wherein the 5' shift site comprises the sequence 5'-GGUUUUU-3'.

45. The polynucleotide of claim 44, wherein the 5' shift site consists of the sequence 5'-GGUUUUU-3'.

46. The polynucleotide of any one of claims 42-45, wherein the spacer sequence is 13 or14 nucleotides long.

47. The polynucleotide of claim 46, wherein the spacer sequence comprises the sequence CAGACUCAAGGAG (SEQ ID NO: 4).

48. The polynucleotide of claim 47, wherein the spacer sequence consists of the sequence CAGACUCAAGGAG (SEQ ID NO: 4).

49. The polynucleotide of any one of claims 42-48, wherein the stem-loop structure comprises a stem of 7 nucleotides.

50. The polynucleotide of claim 49, wherein the stem-loop structure comprises the sequence 5'-CGGCAGU-3' followed by a 21 nucleotide loop and the complementary sequence 5'ACUGCCG-3'.

51. The polynucleotide of any one of claims 42-50, wherein the loop of the stem-loop structure comprises an adenosine triplet followed by a cytosine triplet.

52. The polynucleotide of claim 50 or claim 51, wherein the loop structure comprises the sequence GUCAUCAAUGGCUCAAACCCU (SEQ ID NO: 7).

53. The polynucleotide of claim 52, wherein the loop structure consists of the sequence GUCAUCAAUGGCUCAAACCCU (SEQ ID NO: 7).

54. The polynucleotide of any one of claims 1-53, wherein the first ribosomal frameshift element comprises the sequence GGUUUUUCAGACUCAAGGAGCGGCAGUGUCAUCAAUGGCUCAAACC CUACUGCCG (SEQ ID NO: 8), or a sequence having at least 60% identity thereto.

55. The polynucleotide of any one of claims 20-23, 26, 27, and 43-54 wherein the second ribosomal frameshift element comprises the sequence GGUUUUUCAGACUCAAGGAGCGGCAGUGUCAUCAAUGGCUCAAACC CUACUGCCG (SEQ ID NO: 8), or a sequence having at least 60% identity thereto.

56. The polynucleotide of any one of claims 1-55, wherein the first ribosomal frameshift element causes a -1 frameshift in the presence of the ribosomal frameshift stimulator.

57. The polynucleotide of any one of claims 20-23, 26, 27, and 43-56, wherein the second ribosomal frameshift element causes a -1 frameshift in the presence of the ribosomal frameshift stimulator.

58. The polynucleotide of any one of claims 1-57, wherein the polynucleotide further comprises one or more additional combinations of an additional ribosomal frameshift element and a nucleotide sequence encoding an additional payload polypeptide, wherein the additional ribosomal frameshift element is positioned 5' to the nucleotide sequence encoding the additional payload polypeptide,
wherein translation of the additional payload polypeptide is controlled by the additional ribosomal frameshift element and requires either the presence or absence of the ribosomal frameshift stimulator, and
wherein the nucleotide sequence encoding the additional payload polypeptide is positioned in frame or in -1 translation frame in relation to the additional ribosomal frameshift element.

59. The polynucleotide of any one of claims 1-58, wherein the polynucleotide comprises two MSE sequences.

60. The polynucleotide of any one of claims 1-59, wherein when two or more MSE sequences are present, at least two of these MSE sequences are targeted by the same miRNA.

61. The polynucleotide of any one of claims 1-59, wherein when two or more MSE sequences are present, at least two of these MSE sequences are targeted by different miRNAs.

62. The polynucleotide of any one of claims 1-61, wherein the one or more MSE sequences are targeted by miRNA(s) which is characterized by tissue-specific, cell type-specific, cell-state-specific or species-specific expression.

63. The polynucleotide of claim 62, wherein the one or more MSE sequences is targeted by miR-1, miR-155, miR-124, miR-182, miR-96, miR-183, miR-21, miR-16, miR-17, miR-19, miR-25, miR-34, miR-92, miR-93, miR-142, miR-222, miR-149, miR-375, miR-503, or miR-181b-2.

64. The polynucleotide of any one of claims 1-63, wherein the first payload polypeptide is a gene editing nuclease, a chimeric antigen receptor (CAR), an antibody, a cytotoxic protein, a cell surface receptor, a transcription factor, an enzyme, a reporter protein, a cytokine, or a polypeptide that confers drug resistance.

65. The polynucleotide of any one of claims 20-23, 26 and 27, wherein the second payload polypeptide is a gene editing nuclease, a chimeric antigen receptor (CAR), an antibody, a cytotoxic protein, a cell surface receptor, a transcription factor, an enzyme, a reporter protein, a cytokine, or a polypeptide that confers drug resistance.

66. The polynucleotide of claim 64 or claim 65, wherein the gene editing nuclease is a Cas protein, ZFN nuclease, or TALEN.

67. The polynucleotide of claim 66, wherein the Cas protein is Cas9.

68. A vector comprising the polynucleotide of any one of claims 1-67.

69. The vector of claim 68, wherein the vector is a viral vector.

70. The vector of claim 69, wherein the viral vector is a retroviral vector, an adenovirus vector, a parvovirus vector, an influenza virus vector, a herpes virus vector, a poxvirus vector, a rhabdovirus vector, a paramyxovirus vector, a morbillivirus vector, or a reovirus vector.

71. The vector of claim 70, wherein the retroviral vector is a lentiviral vector.

72. The vector of claim 70, wherein the parvoviral vector is an adeno-associated virus (AAV) vector.

73. The vector of claim 70, wherein the paramyxovirus vector is a Sendai virus (SeV) vector.

74. A composition comprising the polynucleotide of any one of claims 1-67 or the vector of any one of claims 68-73 and a carrier or excipient.

75. The composition of claim 74, wherein the composition is a pharmaceutical composition comprising the polynucleotide or the vector and a pharmaceutically acceptable carrier or excipient.

76. A host cell comprising the polynucleotide of any one of claim 1-67, or the vector of any of claims 68-73.

77. A method of selectively expressing a payload polypeptide in a target cell type or tissue or a cell in a specific state within a multicellular organism, comprising introducing to the multicellular organism an effective amount of the polynucleotide of any one of claims 1-67, or the vector of any one of claims 68-73, or the composition of claim 74 or 75.

78. The method of claim 77, wherein the multicellular organism is an animal, a plant, or a fungus.

79. The method of claim 77, wherein the animal is a human, veterinary animal, or experimental animal.

Fig. 1

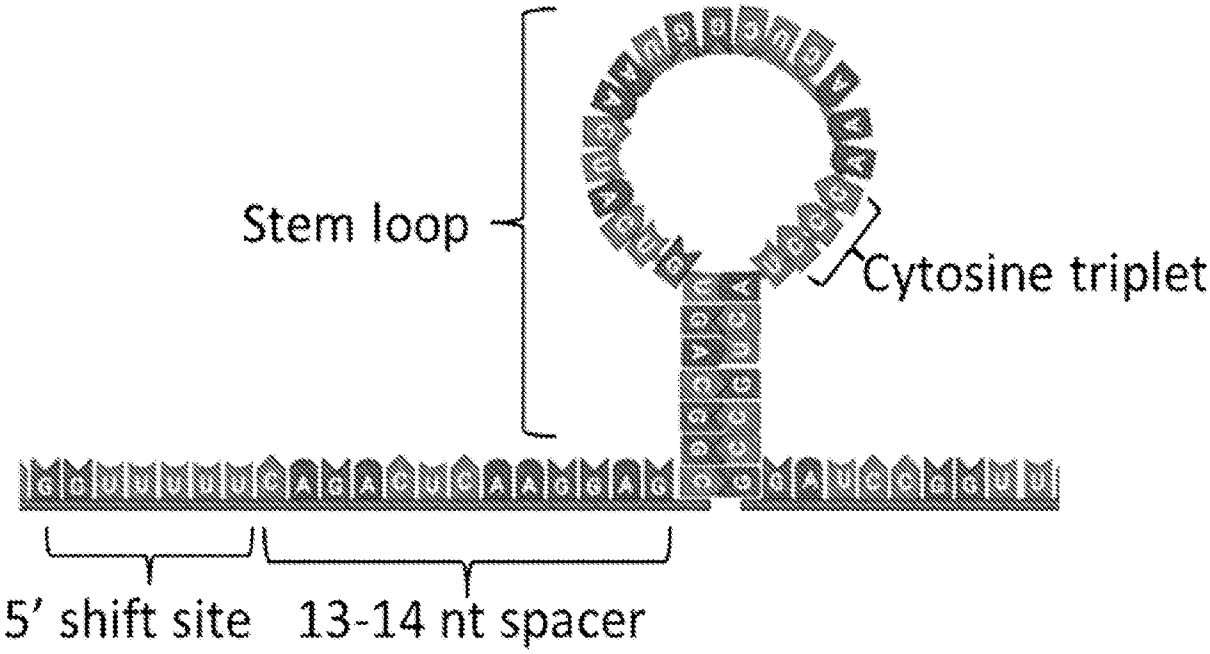


Fig. 2

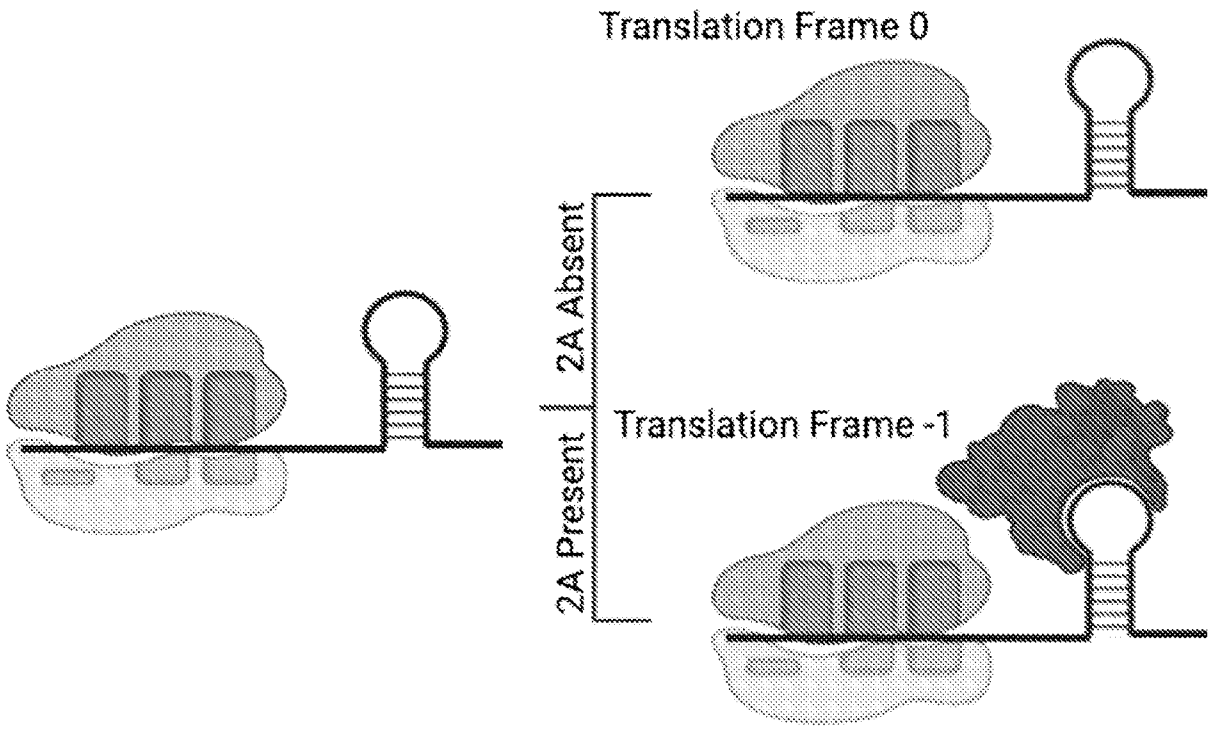

Translation Frame 0
2A Absent
Translation Frame -1
2A Present

Fig. 3A

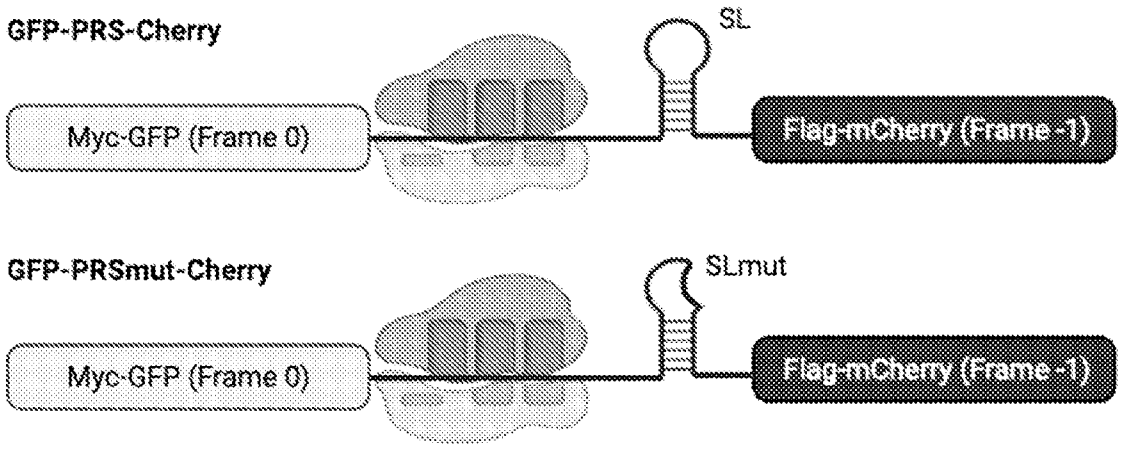
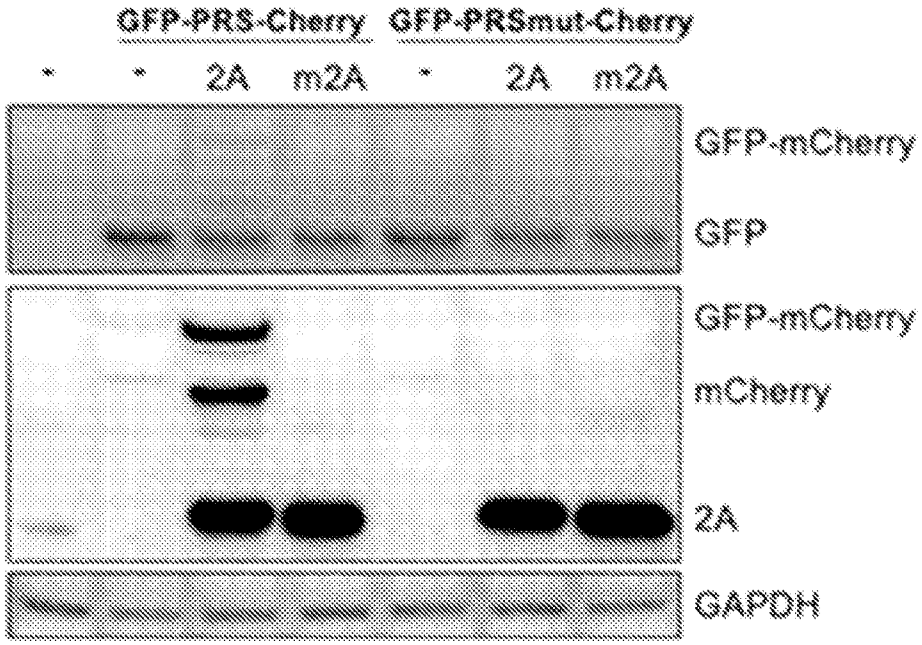

GFP-PRS-Cherry
SL
Myc-GFP (Frame 0)
Flag-mCherry (Frame -1)
GFP-PRSmut-Cherry
SLmut
Myc-GFP (Frame 0)
Flag-mCherry (Frame -1)

Fig. 3B


GFP-PRS-Cherry
GFP-PRSmut-Cherry
*
*
2A
m2A
*
2A
m2A
GFP-mCherry
GFP
GFP-mCherry
mCherry
2A
GAPDH

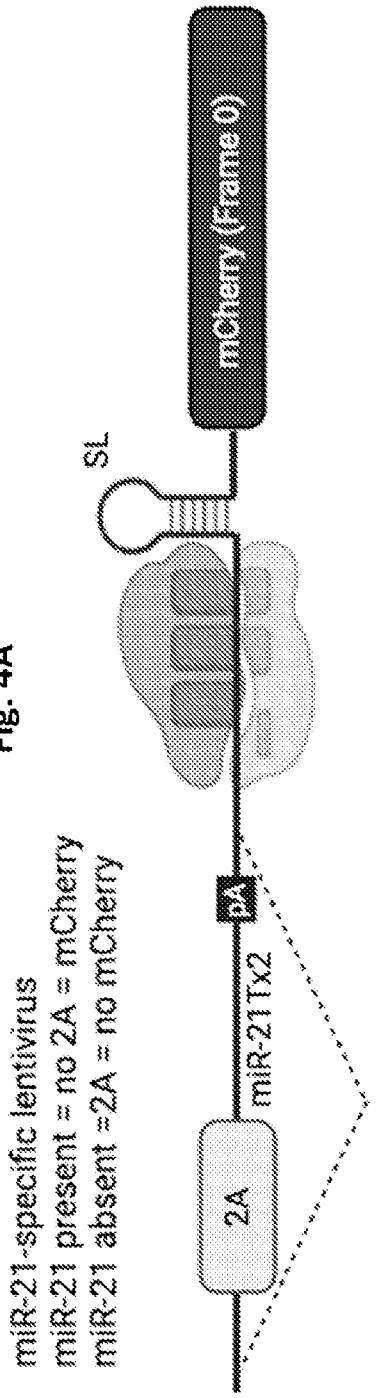

miR-21-specific lentivirus
miR-21 present = no 2A = mCherry
miR-21 absent =2A = no mCherry
2A
miR-21Tx2
pA
SL
mCherry (Frame 0)

Fig. 4A

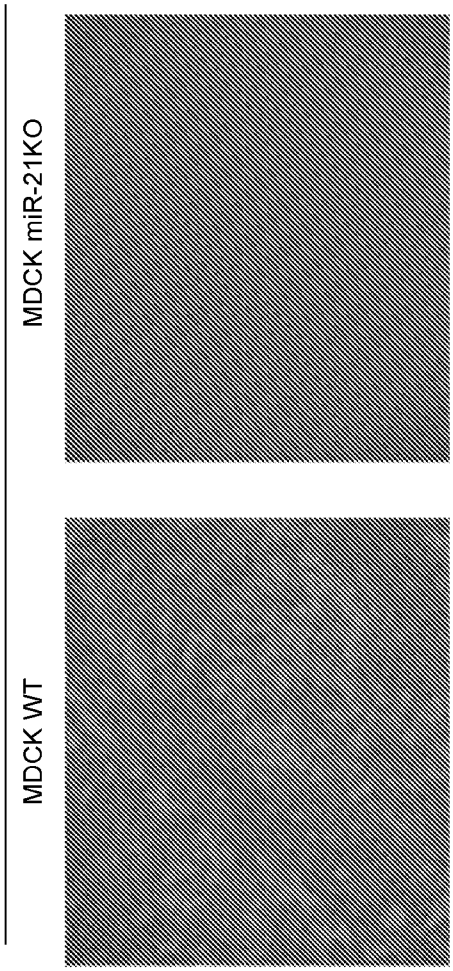

miR-21-specific lentivirus (2 days post transduction)
MDCK WT
MDCK miR-21KO

Fig. 4B

Fig. 5A

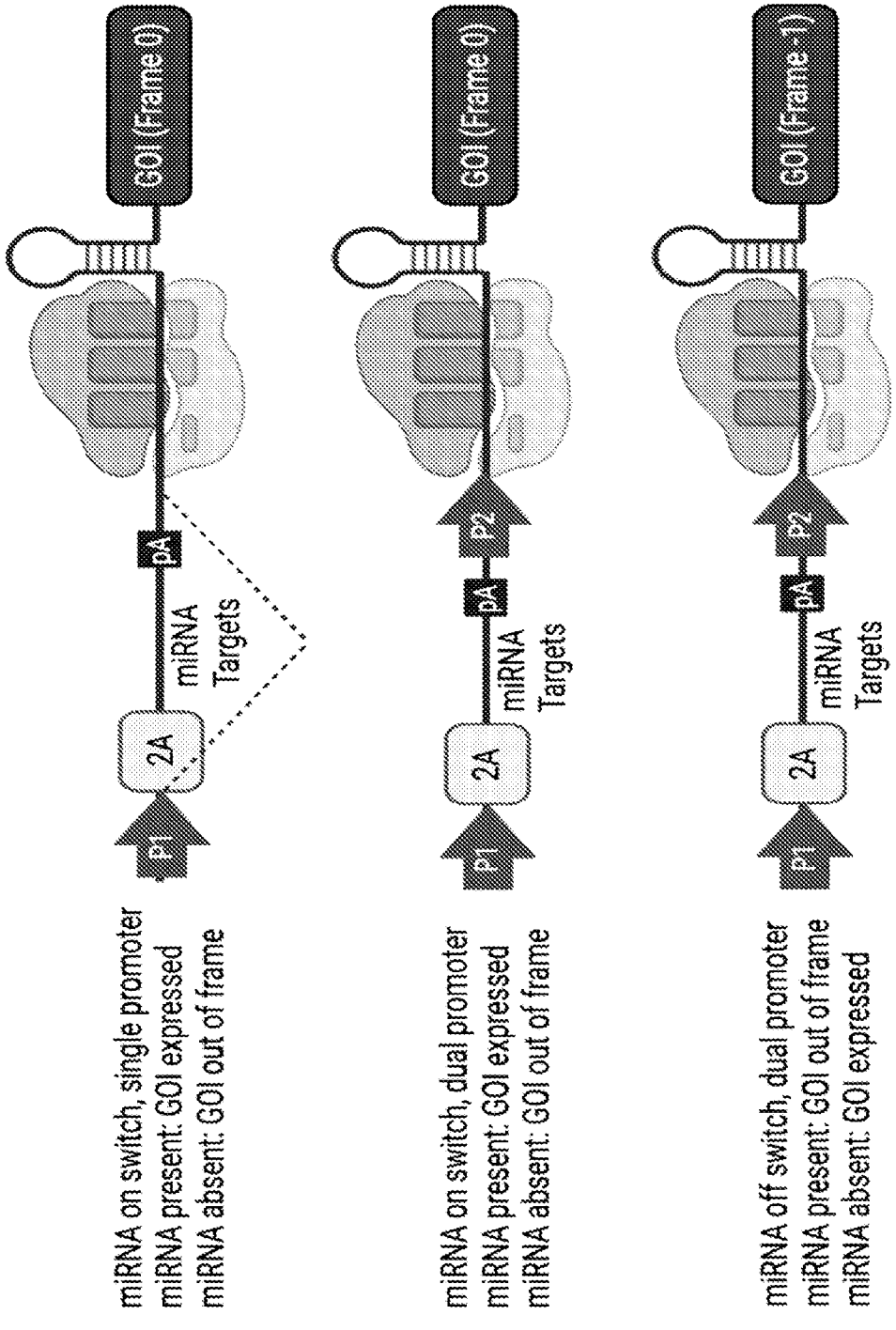

GOI (Frame 0)
pA
miRNA Targets
2A
P1
miRNA on switch, single promoter
miRNA present: GOI expressed
miRNA absent: GOI out of frame
GOI (Frame 0)
P2
pA
miRNA Targets
2A
P1
miRNA on switch, dual promoter
miRNA present: GOI expressed
miRNA absent: GOI out of frame
GOI (Frame 1)
P2
pA
miRNA Targets
2A
P1
miRNA off switch, dual promoter
miRNA present: GOI out of frame
miRNA absent: GOI expressed

Fig. 5B

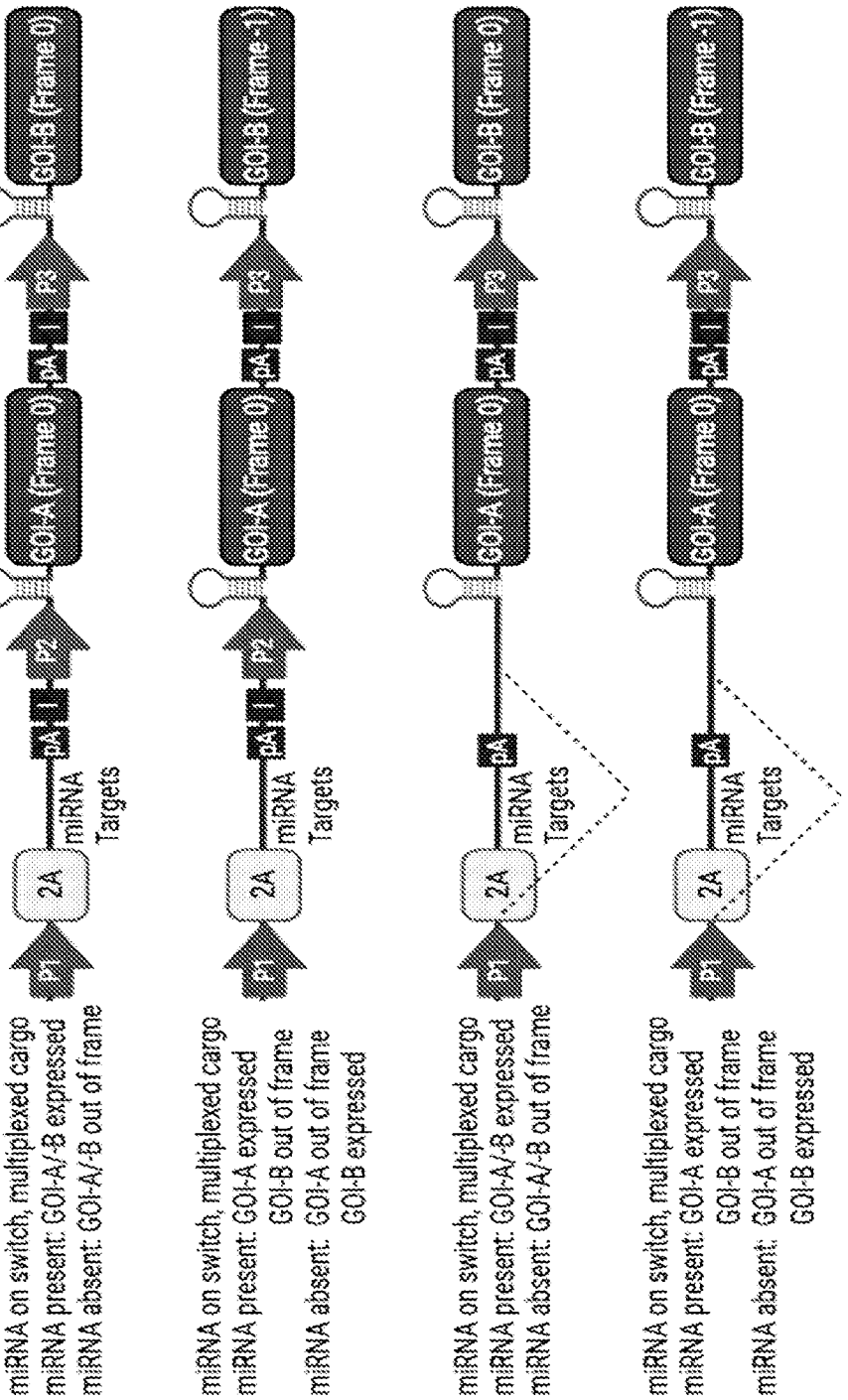

miRNA on switch, multiplexed cargo
miRNA present: GOI-A/-B expressed
miRNA absent: GOI-A/-B out of frame
P1
2A
miRNA
Targets
P2
GOI-A (Frame 0)
pA
P3
GOI-B (Frame 0)
miRNA on switch, multiplexed cargo
miRNA present: GOI-A expressed
GOI-B out of frame
miRNA absent: GOI-A out of frame
GOI-B expressed
GOI-B (Frame -1)
miRNA on switch, multiplexed cargo
miRNA present: GOI-A/-B expressed
miRNA absent: GOI-A/-B out of frame
miRNA on switch, multiplexed cargo
miRNA present: GOI-A expressed
GOI-B out of frame
miRNA absent: GOI-A out of frame
GOI-B expressed

Fig. 6

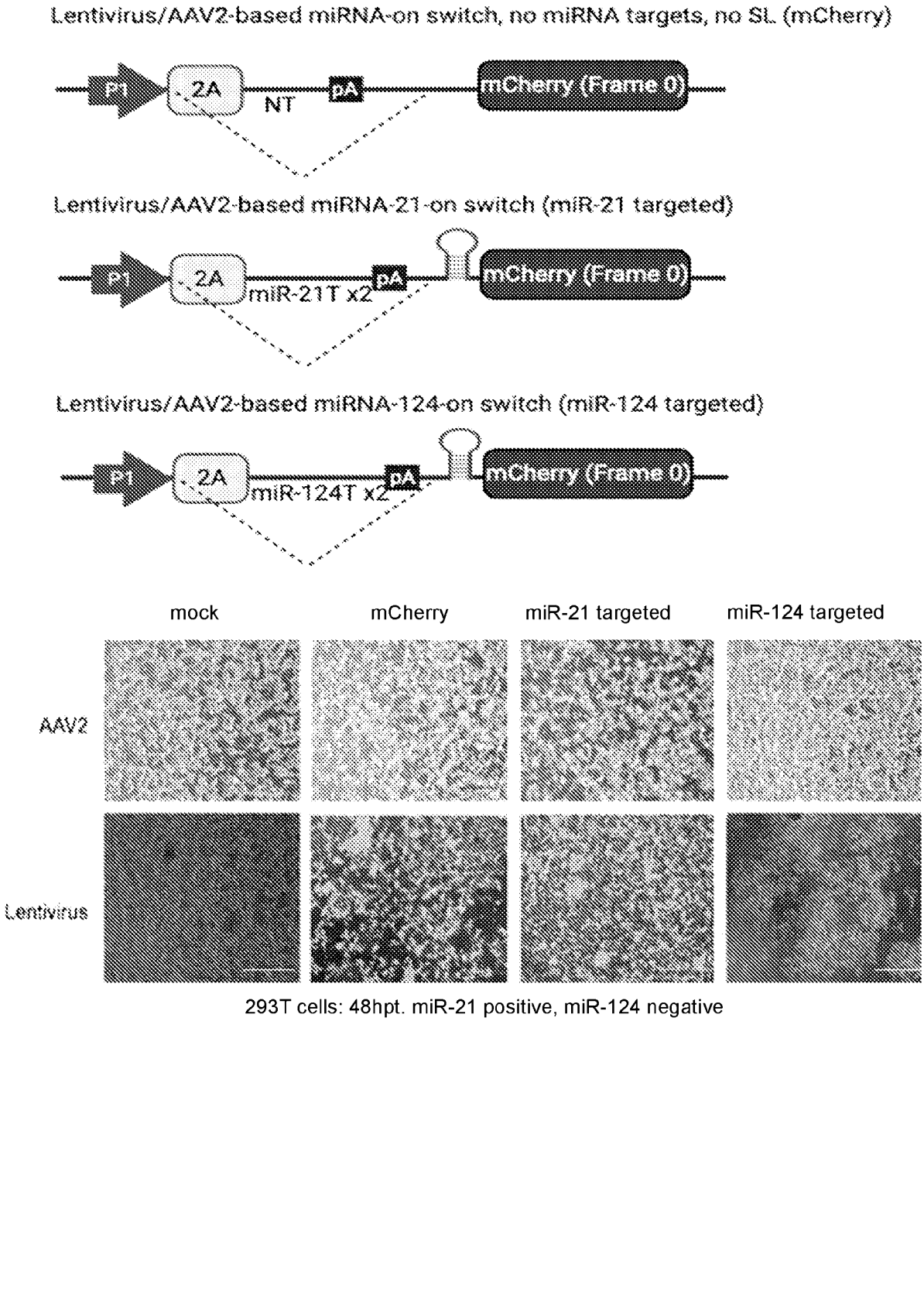
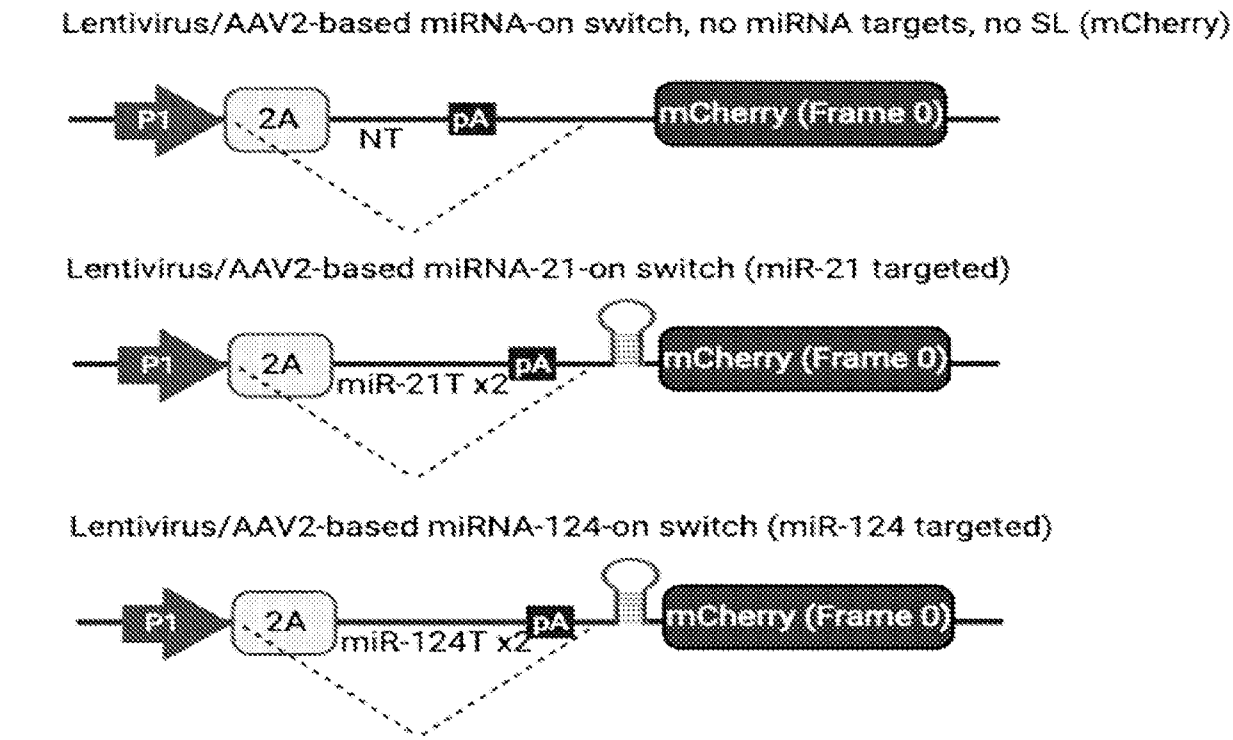
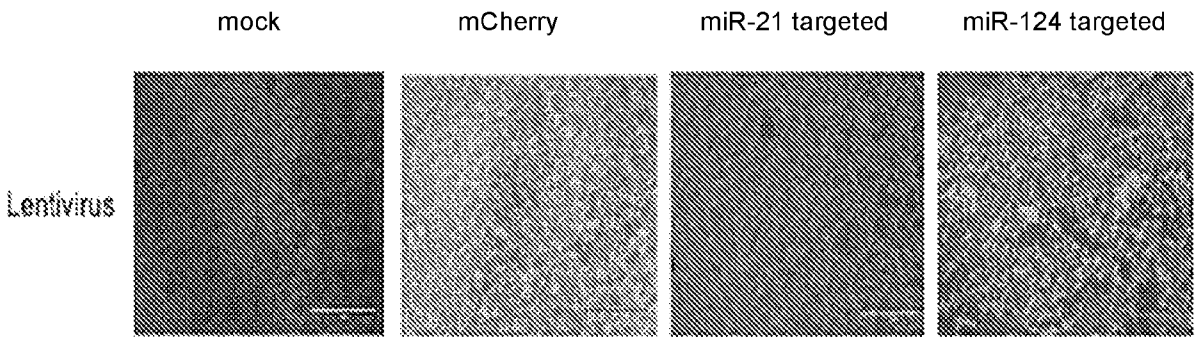

Lentivirus/AAV2-based miRNA-on switch, no miRNA targets, no SL (mCherry)
P1
2A
NT
pA
mCherry (Frame 0)
Lentivirus/AAV2-based miRNA-21-on switch (miR-21 targeted)
P1
2A
miR-21T x2
pA
mCherry (Frame 0)
Lentivirus/AAV2-based miRNA-124-on switch (miR-124 targeted)
P1
2A
miR-124T x2
pA
mCherry (Frame 0)
mock
mCherry
miR-21 targeted
miR-124 targeted
AAV2
Lentivirus
293T cells: 48hpt. miR-21 positive, miR-124 negative

Fig. 7





U-87 cells: 48hpt. miR-21 negative, miR-124 positive

Fig. 8

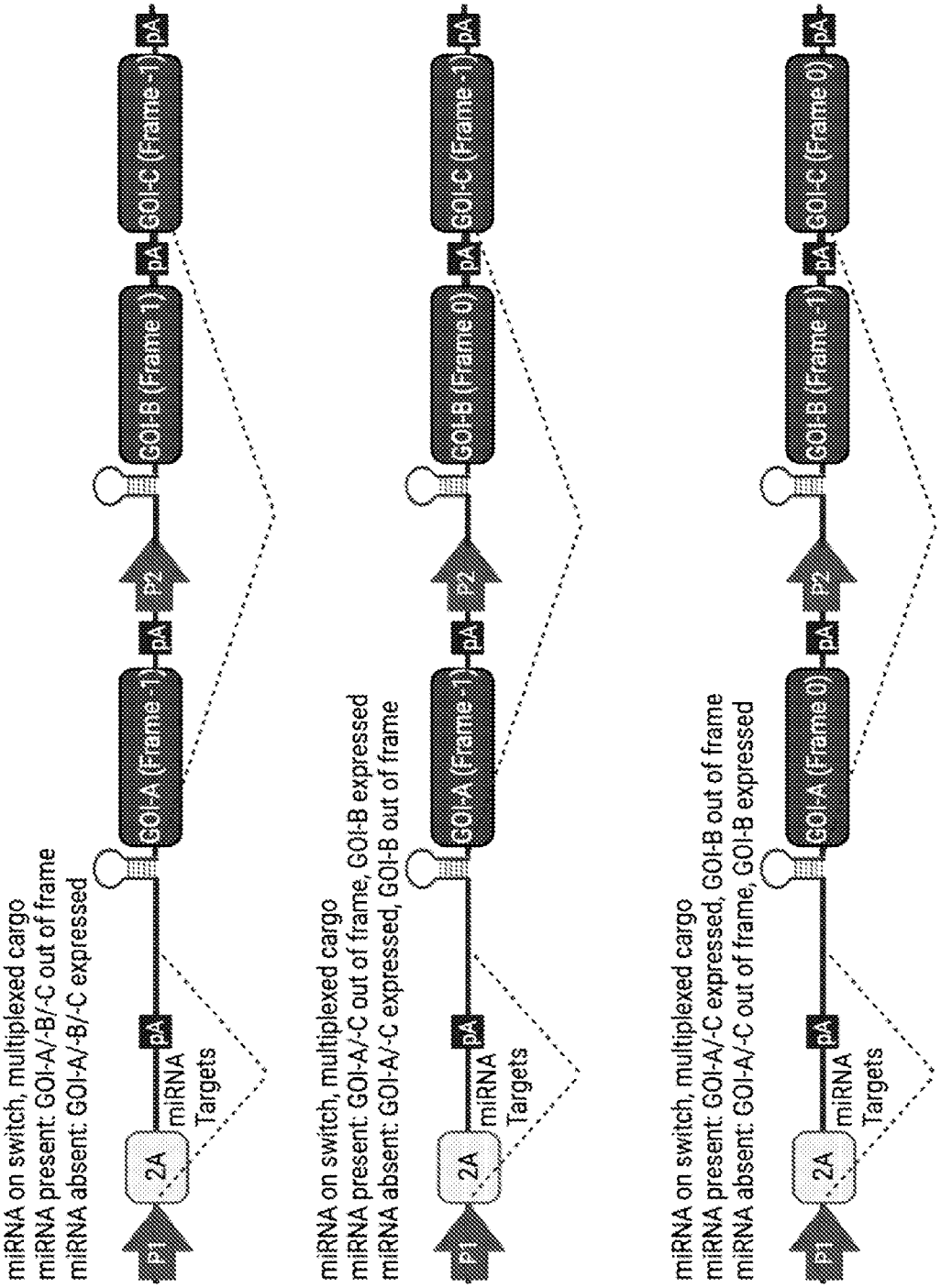

miRNA on switch, multiplexed cargo
miRNA present: GOI-A/-B/-C out of frame
miRNA absent: GOI-A/-B/-C expressed
P1
2A
miRNA
Targets
pA
GOI-A (Frame -1)
P2
GOI-B (Frame 1)
GOI-C (Frame -1)
miRNA on switch, multiplexed cargo
miRNA present: GOI-A/-C out of frame, GOI-B expressed
miRNA absent: GOI-A/-C expressed, GOI-B out of frame
GOI-B (Frame 0)
GOI-C (Frame -1)
miRNA on switch, multiplexed cargo
miRNA present: GOI-A/-C expressed, GOI-B out of frame
miRNA absent: GOI-A/-C out of frame, GOI-B expressed
GOI-A (Frame 0)
GOI-B (Frame -1)
GOI-C (Frame 0)

Fig. 9A

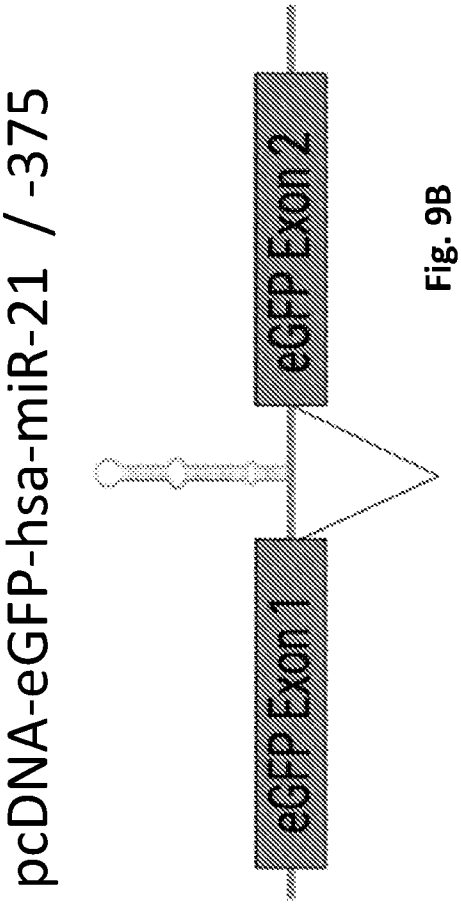

pcDNA-eGFP-hsa-miR-21 / -375
eGFP Exon 1
eGFP Exon 2

Fig. 9B

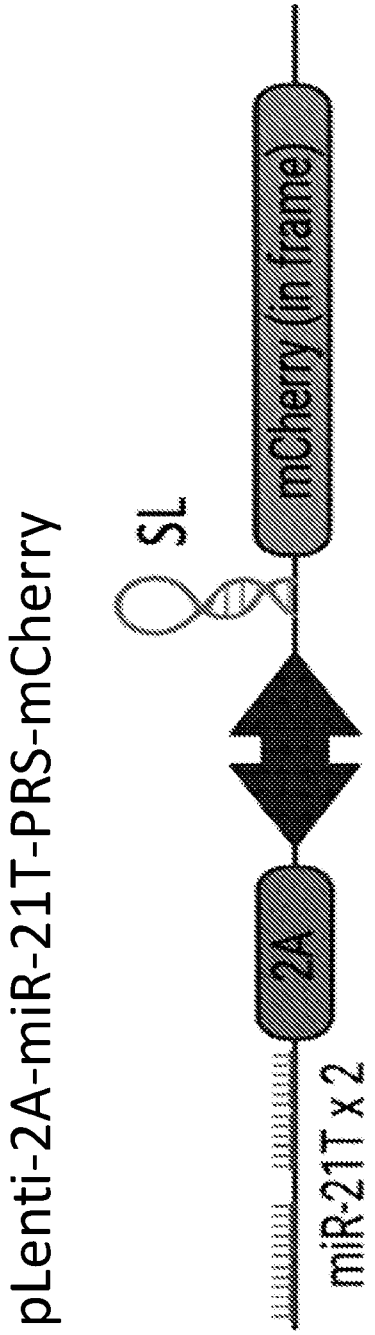

pLenti-2A-miR-21T-PRS-mCherry
miR-21T x 2
2A
SL
mCherry (in frame)

Fig. 9C

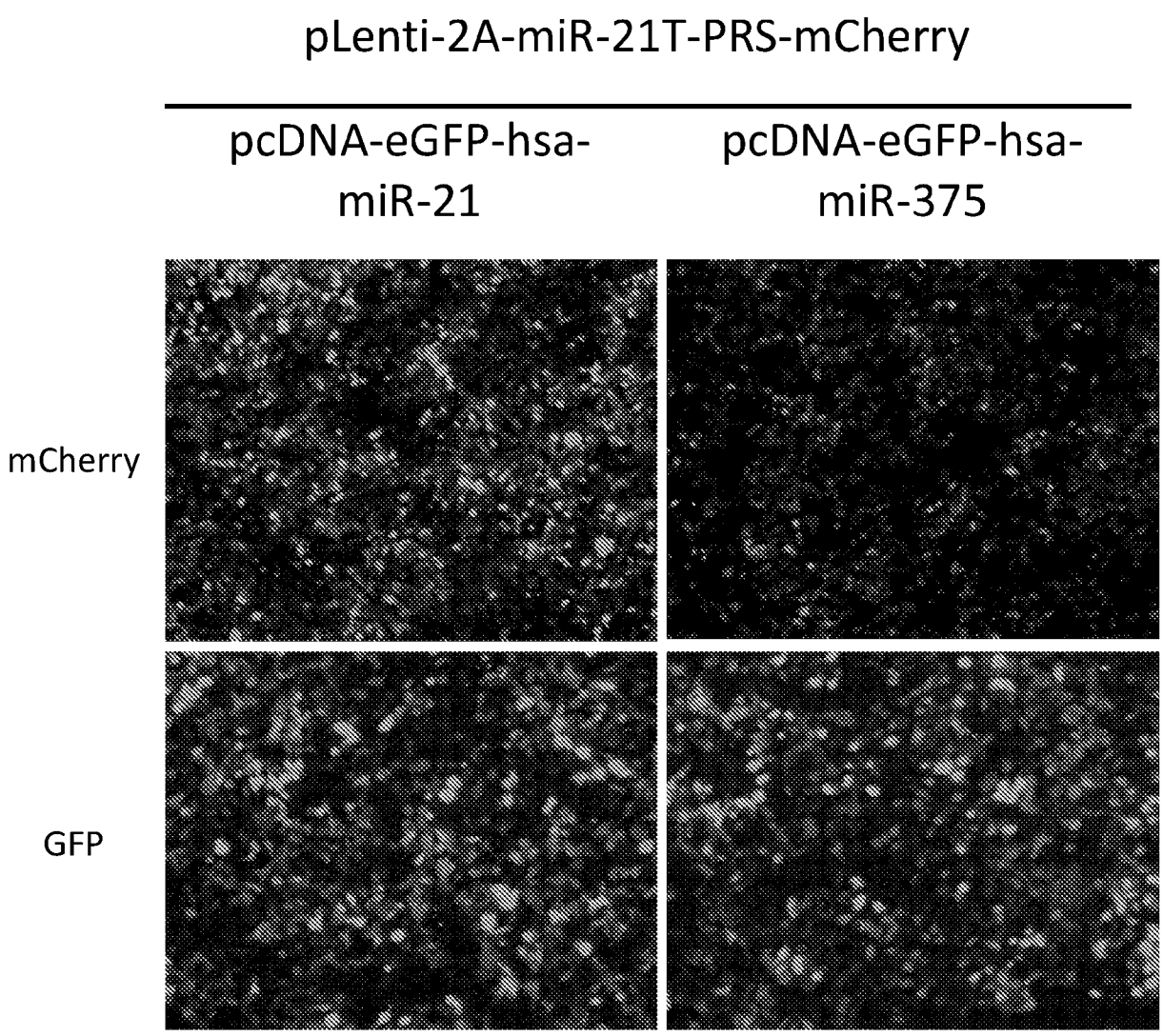

pLenti-2A-miR-21T-PRS-mCherry
pcDNA-eGFP-hsa-miR-21
pcDNA-eGFP-hsa-miR-375
mCherry
GFP

Fig. 10A

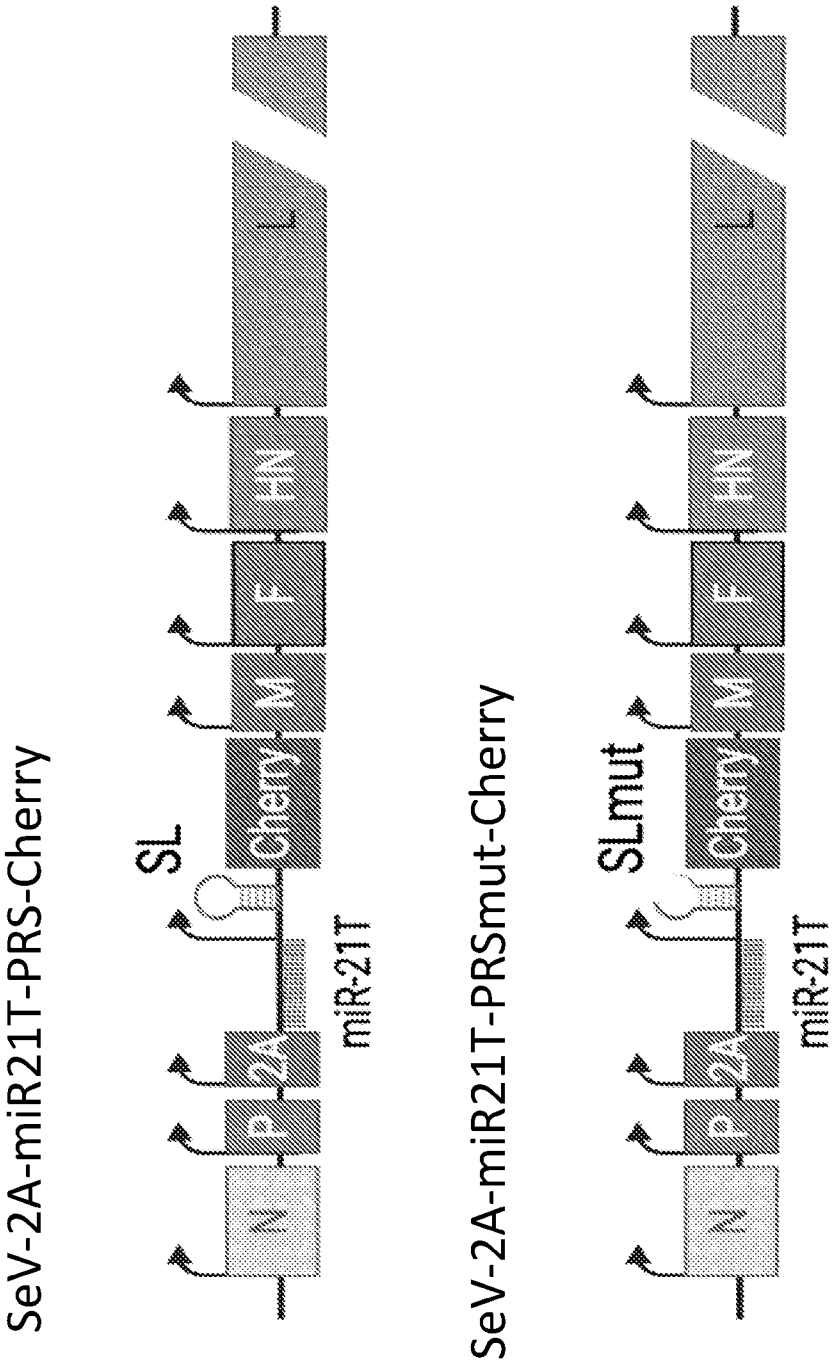

SeV-2A-miR21T-PRS-Cherry
N
P
2A
SL
Cherry
M
F
HN
L
miR-21T
SeV-2A-miR21T-PRSmut-Cherry
N
P
2A
SLmut
Cherry
M
F
HN
L
miR-21T

Fig. 10B

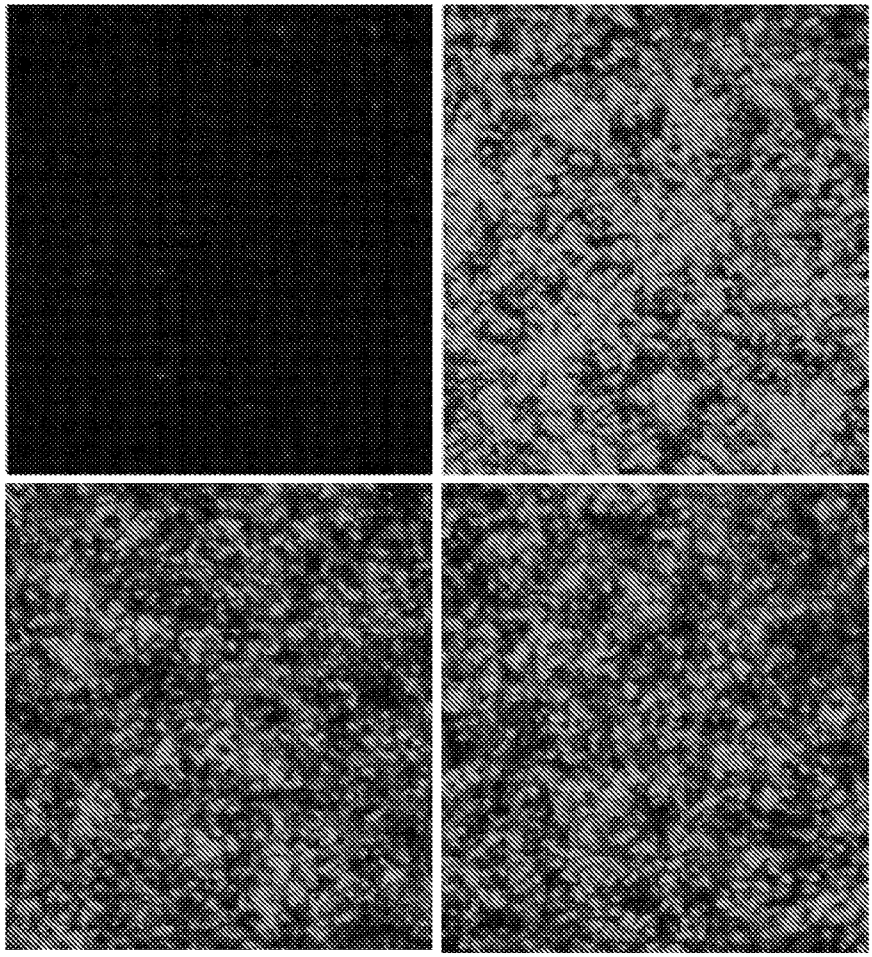
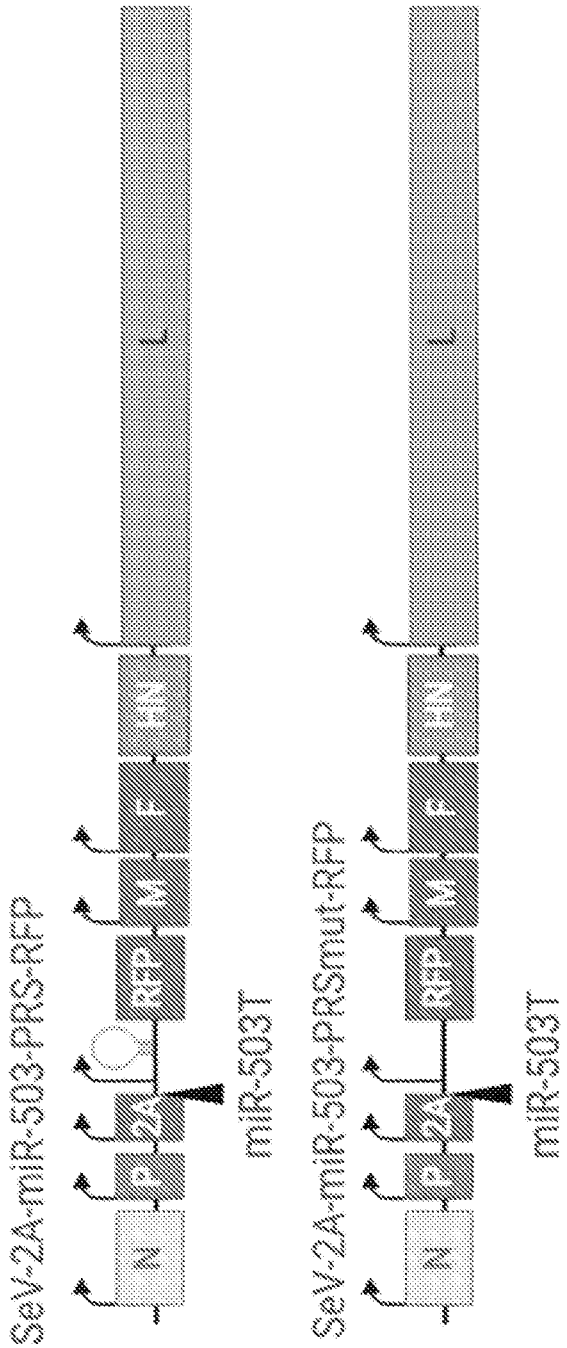

MDCK
MDCK miR-21-/-
SeV-2A-miR21T -PRS-Cherry
SeV-2A-miR21T -PRSmut-Cherry

Fig. 11A


SeV-2A-miR-503-PRS-RFP
N
P
2A
RFP
M
F
HN
L
miR-503T
SeV-2A-miR-503-PRSmut-RFP
N
P
2A
RFP
M
F
HN
L
miR-503T

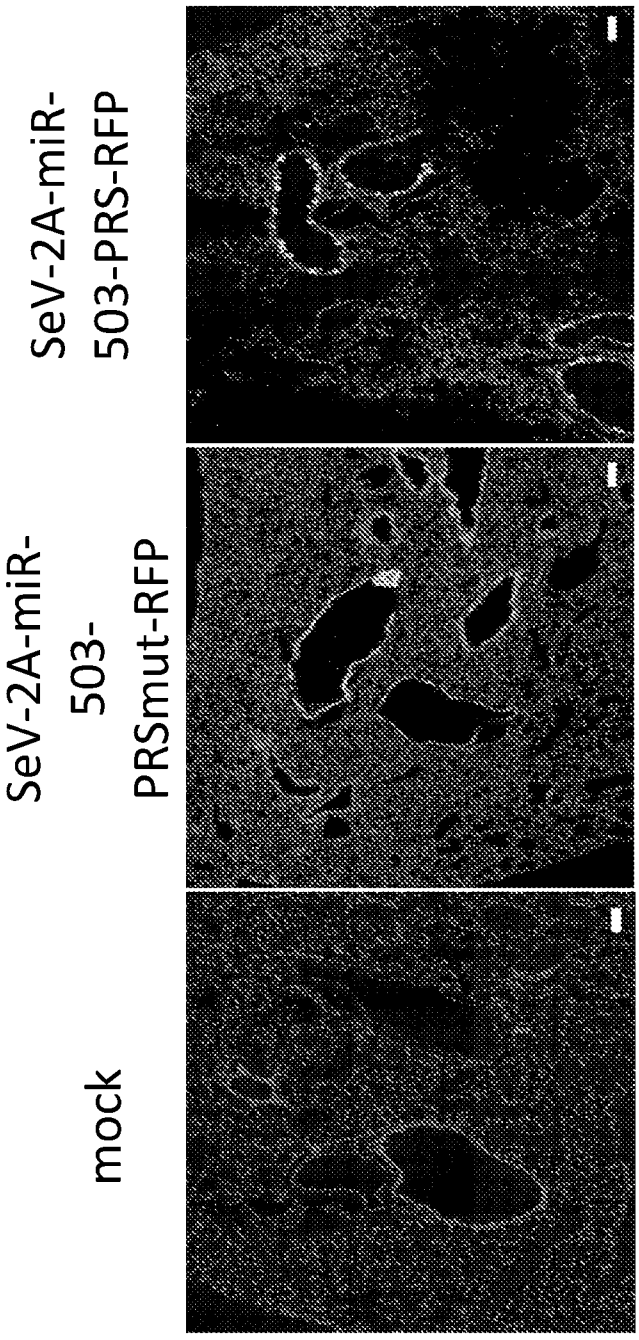


Fig. 11B

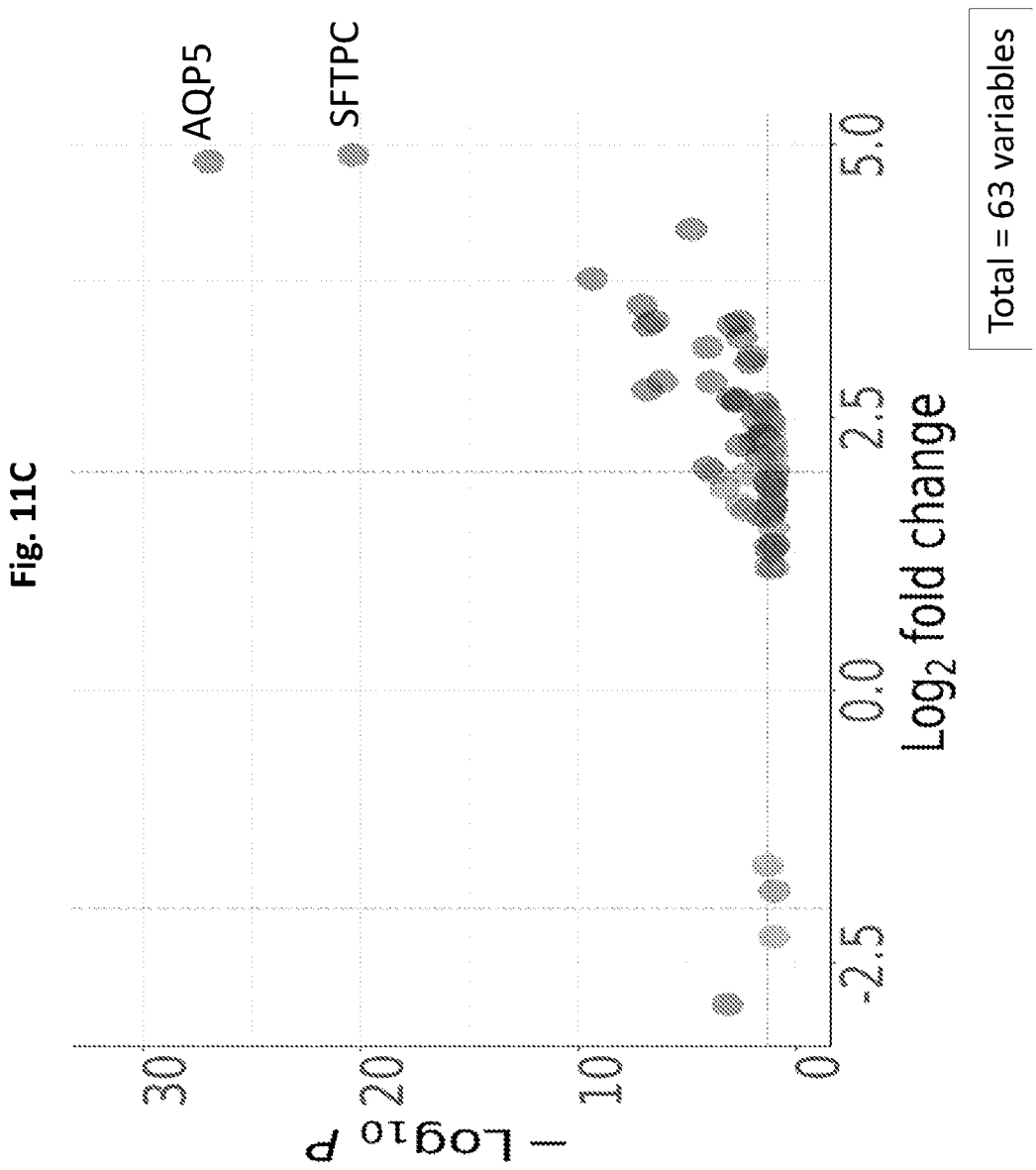

AQP5
SFTPC
30
20
10
0
−Log10 P
-2.5
0.0
2.5
5.0
Log2 fold change
Total = 63 variables

Fig. 11C