

**Supplemental Table E. Sequence Similar miRNAs Found in Different Host Transcripts**

| microRNA     | Similar miRs | miR Chr Location | miR Class | Host Gene/TU                                  | Host Gene/TU Details   | microRNA Mapping Position Within Host Gene | Host Gene Expression  | Expression Source/Ref  |
|--------------|--------------|------------------|-----------|---|--|--|---|--|
| hsa-let-7a-2 | 12           | 11               | Intronic  | ENSESTG00000015836                            | Possible miRNA (ENSESTT00000036713)  | Within Intron 2                            |   |  |
| hsa-let-7b   | 12           | 22               | Exonic    | OTTHUMG00000030111/22_44720862/speyey AceView | Vega miRNA (dJ695O20B.C22.9)   | Within Exon 1                              | Well expressed  | Aceview/Asembly  |
| hsa-let-7c-1 | 12           | 21               | Intronic  | ENSG00000174496                               | Novel Protein (C21ORF34) (FRAGMENT). [Source:SPTREMBL;Acc:Q8TDA7]                    | Within Intron 6                            |   |  |
| hsa-let-7c-2 | 12           | 22               | Exonic    | OTTHUMG00000030111/22_44720862/speyey AceView | Vega miRNA (dJ695O20B.C22.9)   | Within Exon 1                              | Well expressed  | Aceview/Asembly  |
| hsa-let-7d   | 12           | 9                | Intronic  | OTTHUMG00000020259                            | Vega miRNA (ba2B6.1)   | Within Intron 3                            |   |  |
| hsa-let-7g   | 12           | 3                | Intronic  | ENSG00000164091/ENSESTG0000005722             | Novel Protein (INTERPRO: IPR001680 G-protein beta WD-40 repeat)                      | Within Intron 2                            |   |  |
| mmu-let-7a-2 | 11           | 9                | Intronic  | ENSMUSESTG00000011922                         | Possible miRNA   | Within Intron 4                            |   |  |
| mmu-let-7b   | 11           | 15               |           |   |  |  |   |  |
| mmu-let-7c-1 | 11           | 16               | Intronic  | ENSMUSESTG00000020232                         | Novel Protein  | Within Intron 2                            |   |  |
| mmu-let-7c-2 | 11           | 15               |           |   |  |  |   |  |
| mmu-let-7d   | 11           | 13               |           |   |  |  |   |  |
| mmu-let-7g   | 11           | 9                | Intronic  | ENSMUSG00000020257                            | Novel Protein (INTERPRO: IPR001680 G-protein beta WD-40 repeat)                      | Within Intron 2                            | Enriched in the cerebellum. Also expressed in thymus.                         | Affy U74A: 96924_at  |
| hsa-miR-1-1  | 2            | 20               | Intronic  | ENSG00000174407                               | Novel Protein (C20orf166)  | Within Intron 2                            |   |  |
| hsa-miR-1-2  | 2            | 18               | 'Mixed'   | 18_17664447/sweywu AceView                    | Possible miRNA   | Within Exon 3                              | Moderately expressed  | AceView/Asembly  |
| mmu-miR-1-1  | 2            | 2                |           |   |  | undefined                                  |   |  |
| mmu-miR-1-2  | 2            | 18               |           |   |  | undefined                                  |   |  |
| hsa-miR-7-1  | 3            | 9                | 'Mixed'   | OTTHUMG00000020107/ENSG00000165119            | HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN K (HNRNP K) & Vega miRNA (Isoform HNRPK-007) | Within Intron 16                           | Ubiquitous  | Affy U95A: 39415_at<br><br>Tanaka S, Tatsumi K, Okubo K, Itoh K, Kawamoto S, Matsubara K, Amino N. Expression profile of active genes in the human pituitary gland. J Mol Endocrinol. 2002 Feb;28(1):33-44 |
| hsa-miR-7-3  | 3            | 19               | Intronic  | ENSG00000176840                               | PITUITARY GLAND SPECIFIC FACTOR 1A. [Source:RefSeq;Acc:NM_174947]                    | Within Intron 2                            | Expressed primarily in the pituitary gland. Lesser expression in the pancreas |  |
| mmu-miR-7-1  | 3            | 13               | Intronic  | ENSMUSG00000021546                            | HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN K. [Source:SPTREMBL;Acc:Q8BGQ8]              | Within Intron 13                           |   |  |
| mmu-miR-7b   | 3            | 17               |           |   |  | undefined                                  |   |  |

|              |   |    |          |   |   |                 |   |  |
|--------------|---|----|----------|---|---|-----------------|---|--|
| hsa-miR-9-1  | 3 | 1  | Intronic | ENSG00000125462                               | TRANSCRIPTIONAL ACTIVATOR OF THE C-FOS PROMOTER. [Source: RefSeq (NM_006365)] | Within Intron 2 | Brain specific. Enriched in proliferating and migrating brain cells | Jeffrey PL, Capes-Davis A, Dunn JM, Tolhurst O, Seeto G, Hannan AJ, Lin SL. CROC-4: a novel brain specific transcriptional activator of c-fos expressed from proliferation through to maturation of multiple neuronal cell types. Mol Cell Neurosci. 2000 Sep;16(3):185-96 |
| hsa-miR-9*-1 | 3 | 1  | Intronic | ENSG00000125462                               | TRANSCRIPTIONAL ACTIVATOR OF THE C-FOS PROMOTER. [Source: RefSeq (NM_006365)] | Within Intron 2 | same as above   | same as above  |
| hsa-miR-9-2  | 3 | 5  | Exonic   | ENSESTG00000010207; 5_88064702/norura AceView | Possible miRNA  | Within Exon 4   | Expressed at very high levels                                       | AceView/AceView  |
| hsa-miR-9*-2 | 3 | 5  | Exonic   | ENSESTG00000010207; 5_88064702/norura AceView | Possible miRNA  | Within Exon 4   | same as above   | same as above  |
| hsa-miR-9-3  | 3 | 15 | Intronic | LOC254559/hineri AceView                      | Novel Protein   | Within Intron 1 | same as above   | same as above  |
| hsa-miR-9*-3 | 3 | 15 | Intronic | LOC254559/hineri AceView                      | Novel Protein   | Within Intron 1 | same as above   | same as above  |
| mmu-miR-9-1  | 3 | 3  | Intronic | ENSMUSESTG00000005502 MBuild30                | TRANSCRIPTIONAL ACTIVATOR OF THE C-FOS PROMOTER                               | Within Intron 2 |   |  |
| mmu-miR-9*-1 | 3 | 3  | Intronic | ENSMUSESTG00000005502 MBuild30                | TRANSCRIPTIONAL ACTIVATOR OF THE C-FOS PROMOTER                               | Within Intron 2 |   |  |
| mmu-miR-9-2  | 3 | 13 | Mixed'   | ENSMUSG000000050334; ENSMUSESTG00000007621    | Possible miRNA  | Within Exon 1   |   |  |
| mmu-miR-9*-2 | 3 | 13 | Mixed'   | ENSMUSG000000050334; ENSMUSESTG00000007621    | Possible miRNA  | Within Exon 1   |   |  |
| mmu-miR-9-3  | 3 | 7  | Intronic | ENSMUSESTG00000007408                         | Novel Protein   | Within Intron 1 | brain specific  | this study   |
| mmu-miR-9*-3 | 3 | 7  | Intronic | ENSMUSESTG00000007408                         | Novel Protein   | Within Intron 1 | brain specific  | this study   |

|             |   |    |          |  |   |                 |   |  |
|-------------|---|----|----------|--|---|-----------------|---|--|
| hsa-miR-15a | 2 | 13 | Intronic | OTTHUMG00000016927; ENSESTG00000016967 | DELETED IN LYMPHOCYTIC LEUKEMIA 2 (DLEU2) miRNA   | Within Intron 4 | High expression in fetal liver, testis. Moderate expression in thymus | Bullrich F, et. al. Characterization of the 13q14 tumor suppressor locus in CLL: identification of ALT1, an alternative splice variant of the LEU2 gene. Cancer Res. 2001 Sep 15;61(18):6640-8 |
| hsa-miR-15b | 2 | 3  | Intronic | ENSG00000113810                        | STRUCTURAL MAINTENANCE OF CHROMOSOMES 4-LIKE 1 PROTEIN (CHROMOSOME- ASSOCIATED POLYPEPTIDE C) (HCAP-C) (XCAP-C HOMOLOG). SMC4L1 [Source:SWISSPROT;Acc:Q9NTJ3] | Within Intron 4 | Widely expressed. Higher expression in testis, colon, thymus.         | SWISSPROT  |
| mmu-miR-15a | 2 | 14 | Intronic | 1810047A16 RIKEN                       | FANTOM2 miRNA [DELETED IN LYMPHOCYTIC LEUKEMIA 2 (DLEU2)]   | Within Intron 4 |   |  |
| mmu-miR-15b | 2 | 3  | Intronic | ENSMUSG00000034349                     | STRUCTURAL MAINTENANCE OF CHROMOSOMES 4-LIKE 1 PROTEIN (CHROMOSOME- ASSOCIATED POLYPEPTIDE C) (XCAP-C HOMOLOG). [Source:SWISSPROT;Acc:Q8CG47]                 | Within Intron 4 |   |  |

|               |   |    |          |   |  |                 |   |  |
|---------------|---|----|----------|---|--|-----------------|---|--|
| hsa-miR-16-1  | 2 | 13 | Intronic | OTTHUMG00000016927;<br>ENSESTG00000016967 | DELETED IN LYMPHOCYTIC LEUKEMIA 2 (DLEU2) lncRNA<br>STRUCTURAL MAINTENANCE OF CHROMOSOMES 4-LIKE 1 PROTEIN (CHROMOSOME- ASSOCIATED POLYPEPTIDE C) (HCAP-C) (XCAP-C HOMOLOG). SMC4L1<br>[Source:SWISSPROT;Acc:Q9NTJ3] | Within Intron 4 | High expression in fetal liver, testis. Moderate expression in thymus         | Bullrich F, et. al. Characterization of the 13q14 tumor suppressor locus in CLL: identification of ALT1, an alternative splice variant of the LEU2 gene. Cancer Res. 2001 Sep 15;61(18):6640-8   |
| hsa-miR-16-2  | 2 | 3  | Intronic | ENSG00000113810                           | [Source:SWISSPROT;Acc:Q9NTJ3]  | Within Intron 4 | Widely expressed. Higher expression in testis, colon, thymus.                 | SWISSPROT  |
| mmu-miR-16-1  | 2 | 14 | Intronic | 1810047A16 RIKEN                          | FANTOM2 lncRNA [DELETED IN LYMPHOCYTIC LEUKEMIA 2 (DLEU2)]<br>STRUCTURAL MAINTENANCE OF CHROMOSOMES 4-LIKE 1 PROTEIN (CHROMOSOME- ASSOCIATED POLYPEPTIDE C) (XCAP-C HOMOLOG).<br>[Source:SWISSPROT;Acc:Q8CG47]       | Within Intron 4 |   |  |
| mmu-miR-16-2  | 2 | 3  | Intronic | ENSMUSG00000034349                        |  | Within Intron 4 |   |  |
| hsa-miR-26a-1 | 3 | 3  | Intronic | ENSG00000144677                           | NUCLEAR LIM INTERACTOR-INTERACTING FACTOR 1 (NLI-INTERACTING FACTOR 1) (NIF-LIKE PROTEIN) (YA22 PROTEIN) (HYA22). NIF1_HUMAN (C3orf8)<br>[Source:SWISSPROT;Acc:O15194]   | Within Intron 6 |   |  |
| hsa-miR-26a-2 | 3 | 12 | Intronic | ENSG00000175215                           | NUCLEAR LIM INTERACTOR-INTERACTING FACTOR 2 (NLI-INTERACTING FACTOR 2) (PROTEIN OS-4). NIF2_HUMAN<br>[Source:SWISSPROT;Acc:O14595]   | Within Intron 5 | Ubiquitously expressed, with highest levels in pancreas and lowest in liver.  | SWISSPROT  |
| hsa-miR-26b   | 3 | 1  | Intronic | ENSG00000144579                           | NUCLEAR LIM INTERACTOR-INTERACTING FACTOR 3 (NLI-IF). NIF3_HUMAN<br>[Source:SWISSPROT;Acc:Q9GZU7]  | Within Intron 4 | Ubiquitously expressed, with highest expression in spleen, lung and placenta. | SWISSPROT  |
| mmu-miR-26a-1 | 3 | 9  | Intronic | ENSMUSG00000038995                        | NUCLEAR LIM INTERACTOR-INTERACTING FACTOR 1 (NLI-INTERACTING FACTOR 1) (NIF-LIKE PROTEIN). NIF1_MOUSE<br>[Source:SWISSPROT;Acc:P58465]   | Within Intron 8 | Ubiquitously expressed  | Fernandes et al.. Identification of a protein that interacts with the golli-myelin basic protein and with nuclear LIM interactor in the nervous system. J Neurosci Res. 2004 Feb 15;75(4):461-71 |
| mmu-miR-26a-2 | 3 | 10 | Intronic | ENSMUSG00000040540                        | NUCLEAR LIM INTERACTOR-INTERACTING FACTOR 2; NLI-INTERACTING FACTOR 2.<br>[Source:RefSeq;Acc:NM_146012]  | Within Intron 4 | Ubiquitously expressed  | Affy U74A: 95161_at  |
| mmu-miR-26b   | 3 | 1  | Intronic | ENSMUSG00000026176                        | NUCLEAR LIM INTERACTOR-INTERACTING FACTOR 3 (NLI-INTERACTING FACTOR 3) (GOLLI-INTERACTING PROTEIN) (GIP). NIF3_MOUSE<br>[Source:SWISSPROT;Acc:P58466]  | Within Intron 4 |   |  |

|                |   |    |          |   |   |                 |                                   |                     |
|----------------|---|----|----------|---|---|-----------------|-----------------------------------|---------------------|
| hsa-miR-30a    | 6 | 6  | Intronic | ENSESTG00000011458/<br>OTTHUMG00000015006 | Possible miRNA  | Within Intron 3 |                                   |                     |
| hsa-miR-30a*   | 1 | 6  | Intronic | ENSESTG00000011458;<br>OTTHUMG00000015006 | Possible miRNA  | Within Intron 3 |                                   |                     |
| hsa-miR-30c-1  | 6 | 1  | Intronic | ENSG00000066136                           | NUCLEAR TRANSCRIPTION FACTOR Y<br>SUBUNIT GAMMA (NF-Y PROTEIN CHAIN<br>C) (NUCLEAR FACTOR YC) (NF-YC)<br>(CCAAT-BINDING TRANSCRIPTION<br>FACTOR SUBUNIT C) (CBF-C)<br>(TRANSACTIVATOR HSM-1/2). NFYC<br>[Source:SWISSPROT;Acc:Q13952] | Within Intron 5 | Widely Expressed                  | Affy U95A: 40466_at |
| hsa-miR-30c-2  | 6 | 6  | Intronic | ENSESTG00000011458;<br>OTTHUMG00000015006 | Possible miRNA  | Within Intron 3 |                                   |                     |
| hsa-miR-30e    | 6 | 1  | Intronic | ENSG00000066136                           | NUCLEAR TRANSCRIPTION FACTOR Y<br>SUBUNIT GAMMA (NF-Y PROTEIN CHAIN<br>C) (NUCLEAR FACTOR YC) (NF-YC)<br>(CCAAT-BINDING TRANSCRIPTION<br>FACTOR SUBUNIT C) (CBF-C)<br>(TRANSACTIVATOR HSM-1/2). NFYC<br>[Source:SWISSPROT;Acc:Q13952] | Within Intron 5 | Widely Expressed                  | Affy U95A: 40466_at |
| mmu-miR-30a    | 6 | 1  |          |   |   | undefined       |                                   |                     |
| mmu-miR-30a*   | 1 | 1  |          |   |   | undefined       |                                   |                     |
| mmu-miR-30c-1  | 6 | 4  | Intronic | ENSMUSG00000032897                        | NUCLEAR TRANSCRIPTION FACTOR Y<br>SUBUNIT GAMMA (NF-Y PROTEIN CHAIN<br>C) (NUCLEAR FACTOR YC) (NF-YC)<br>(CCAAT-BINDING TRANSCRIPTION<br>FACTOR SUBUNIT C) (CBF-C). Nfyc<br>[Source:SWISSPROT;Acc:P70353]                             | Within Intron 5 |                                   |                     |
| mmu-miR-30c-2  | 6 | 1  |          |   |   |                 |                                   |                     |
|                |   |    | Intronic |   | NUCLEAR TRANSCRIPTION FACTOR Y<br>SUBUNIT GAMMA (NF-Y PROTEIN CHAIN<br>C) (NUCLEAR FACTOR YC) (NF-YC)<br>(CCAAT-BINDING TRANSCRIPTION<br>FACTOR SUBUNIT C) (CBF-C). Nfyc<br>[Source:SWISSPROT;Acc:P70353]                             |                 |                                   |                     |
| mmu-miR-30e    | 6 | 4  |          | ENSMUSG00000032897                        |   | Within Intron 5 |                                   |                     |
| hsa-miR-103-1  | 2 | 5  | Intronic | ENSG00000120137                           | PANTOTHENATE KINASE 3 (EC 2.7.1.33)<br>(PANTOTHENIC ACID KINASE 3)<br>(HPANK3).<br>[Source:SWISSPROT;Acc:Q9H999]  | Within Intron 4 | Highly expressed in the<br>liver. | SWISSPROT           |
| hsa-miR-103-2  | 2 | 20 | Intronic | OTTHUMG00000031768/ENS<br>G00000125779    | PANTOTHENATE KINASE 2,<br>MITOCHONDRIAL PRECURSOR (EC<br>2.7.1.33) (PANTOTHENIC ACID KINASE<br>2) (HPANK2).<br>[Source:SWISSPROT;Acc:Q9BZ23]  | Within Intron 5 | Ubiquitous                        | SWISSPROT           |
| mmu-miR-103-1  | 2 | 11 | Intronic | ENSMUSG00000018846                        | PANTOTHENATE KINASE 3 (EC 2.7.1.33)<br>(PANTOTHENIC ACID KINASE 3)<br>(MPANK3). PNK3_MOUSE<br>[Source:SWISSPROT;Acc:Q8R2W9]   | Within Intron 5 |                                   |                     |
| mmu-miR-103-2  | 2 | 2  | Intronic | ENSMUSG00000037514                        | PANTOTHENATE KINASE 2.<br>[Source:RefSeq;Acc:NM_153501]   | Within Intron 5 |                                   |                     |
| hsa-miR-124a-1 | 3 | 8  | Intronic | 8_9800285/hanura AceView                  | Novel Protein   | Within Intron 1 | Expressed at high levels          | Aceview/Asembly     |
| hsa-miR-124a-2 | 3 | 8  | Intronic | 8_65335667/puly Aceview                   | Novel Protein   | Within Intron 1 |                                   |                     |

|                |   |    |          |                            |  |                  |   |  |
|----------------|---|----|----------|----------------------------|--|------------------|---|--|
| mmu-miR-124a-1 | 3 | 14 |          |                            |  |                  |   |  |
| mmu-miR-124a-2 | 3 | 3  | Intronic | ENSMUSG00000049348         | Novel Protein  | Within Intron 2  |   |  |
| hsa-miR-125b-1 | 3 | 11 | Intronic | ENSESTG00000015836         | Possible miRNA (ENSESTT00000036715)  | Within Intron 1  |   |  |
| hsa-miR-125b-1 | 3 | 11 | Intronic | ENSESTG00000015836         | Possible miRNA (ENSESTT00000036713)  | Within Intron 2  |   |  |
| hsa-miR-125b-2 | 3 | 21 | Intronic | ENSG00000174496            | Novel Protein (C21ORF34) (FRAGMENT). [Source:SPTREMBL;Acc:Q8TDA7]                    | Within Intron 6  |   |  |
| mmu-miR-125b-1 | 3 | 9  | Intronic | ENSMUSESTG00000011922      | Possible miRNA   | Within Intron 4  |   |  |
| mmu-miR-125b-1 | 3 | 9  | Intronic | 2610203C20 Riken           | FANTOM2 miRNA  | Within Intron 1  |   |  |
| mmu-miR-125b-2 | 3 | 16 | Intronic | ENSMUSESTG00000020232      | Novel Protein  | Within Intron 2  |   |  |
| hsa-miR-128a   | 2 | 2  | Intronic | ENSG00000048991            | R3H DOMAIN PROTEIN 1. R3HDM [Source:SWISSPROT;Acc:Q15032]                            | Within Intron 18 | Widely expressed with highest expression in brain. Enriched in fetal brain.   | Affy U95A: 36610_at  |
| hsa-miR-128b   | 2 | 3  | Intronic | ENSG00000076062            | CAMP-REGULATED PHOSPHOPROTEIN 21 (ARPP-21) (SwissProt: AP21_HUMAN)                   | Within Intron 11 |   |  |
| mmu-miR-128a   | 2 | 1  | Intronic | ENSMUSESTG00000023144      | Novel Protein  | Within Intron 5  |   |  |
| mmu-miR-128b   | 2 | 9  | Intronic | ENSMUSG00000032503         | CAMP-REGULATED PHOSPHOPROTEIN 21 (ARPP-21). AP21_MOUSE [Source:SWISSPROT;Acc:Q9DCB4] | Within Intron 17 | Neuron-specific expression. Enriched in specific brain areas which are known to receive a rich dopaminergic innervation | Girault JA, Walaas SI, Hemmings HC Jr, Greengard P. ARPP-21, a cAMP-regulated phosphoprotein enriched in dopamine-innervated brain regions: tissue distribution and regulation of phosphorylation in rat brain. Neuroscience. 1990;37(2):317-25. |
| hsa-miR-129-1  | 2 | 7  | Intronic | CALU/7_127933340 NCBI      | CALUMENIN 1 [Source:SWISSPROT; Acc:CALU]   | Within Intron 2  | Highly expressed in heart and placenta. Moderately expressed in most other organs. Low expression in brain and liver.   | Yabe D, Taniwaki M, Nakamura T, Kanazawa N, Tashiro K, Honjo T. Human calumenin gene (CALU): cDNA isolation and chromosomal mapping to 7q32. Genomics. 1998 Apr 15;49(2):331-3   |
| hsa-miR-129-2  | 2 | 11 | Intronic | 11_43541975/giakarby       | Possible miRNA   | Within Intron 1  | Well expressed  | Aceview/Acemby   |
| mmu-miR-129-1  | 2 | 6  | Intronic | Calu NCBI                  | CALUMENIN 1 [Source:SWISSPROT; Acc:CALU]   | Within Intron 2  |   |  |
| mmu-miR-129-2  | 2 | 2  |          |                            |  |                  |   |  |
| hsa-miR-133a-1 | 2 | 18 | 'Mixed'  | 18_17664447/sweywu AceView | Possible miRNA   | Within Intron 3  | Moderately expressed  | AceView/Acemby   |
| hsa-miR-133a-2 | 2 | 20 | Intronic | ENSG00000174407            | Novel Protein (C20orf166)  | Within Intron 1  |   |  |

|                          |   |    |          |                                      |   |                 |  |                 |   |
|--------------------------|---|----|----------|--------------------------------------|---|-----------------|--|-----------------|---|
| mmu-miR-133a-1           | 2 | 18 |          |                                      |   |                 |  |                 |   |
| mmu-miR-133a-2 predicted | 2 | 2  |          |                                      |   |                 |  |                 |   |
| hsa-miR-135a-1           | 3 | 3  | Intronic | 3_52291509/swofaw AceView            | Possible lncRNA   | Within Intron 1 | Expressed at moderate levels                         | AceView/Acembly |   |
| hsa-miR-135a-2           | 3 | 12 | Intronic | NCRMS NCBI; 12_96361263/yase AceView | Non Coding RNA in rhabdomyosarcoma (RMS) (NCRMS)  | Within Intron 9 | Weak expression in brain, testis, and liver.         |                 | Chan AS, Thorner PS, Squire JA, Zielenska M. Identification of a novel gene NCRMS on chromosome 12q21 with differential expression between rhabdomyosarcoma subtypes. Oncogene. 2002 May 2;21(19):3029-37 |
| hsa-miR-135b             | 3 | 1  | Intronic | ENSESTG00000002491                   | Possible lncRNA   | Within Intron 1 | Expressed in Rhabdomyosarcoma alveolar tumor tissue. |                 |   |
| mmu-miR-135a-1           | 3 | 9  |          |                                      |   | undefined       |  |                 |   |
| mmu-miR-135a-2           | 3 | 10 | Intronic | D930049J19 RIKEN                     | FANTOM2 lncRNA [Non Coding RNA in rhabdomyosarcoma (RMS) (NCRMS)]   | Within Intron 7 |  |                 |   |
| mmu-miR-135b             | 3 | 1  | Intronic | ENSMUSESTG00000018175                | Possible lncRNA   | Within Intron 1 |  |                 |   |
| hsa-miR-148b             | 3 | 12 | Intronic | ENSG00000111481                      | COATOMER ZETA-1 SUBUNIT (ZETA-1 COAT PROTEIN) (ZETA-1 COP) (CGI-120) (HSPC181). COPZ1 [Source: SWISSPROT (Q9Y3C3)]      | Within Intron 1 | Ubiquitous   | SWISSPROT       |   |
| hsa-miR-152              | 3 | 17 | Intronic | ENSG00000005243                      | COATOMER ZETA-2 SUBUNIT (ZETA-2 COAT PROTEIN) (ZETA-2 COP). COPZ2 [Source:SWISSPROT;Acc:Q9P299]                         | Within Intron 1 | Ubiquitous   | SWISSPROT       |   |
| mmu-miR-148b             | 3 | 15 | Intronic | ENSMUSG00000035994 MBuild30          | COATOMER ZETA-1 SUBUNIT (ZETA-1 COAT PROTEIN) (ZETA-1 COP) (CGI-120) (HSPC181). COZ1_MOUSE [Source: SWISSPROT (Q9Y3C3)] | Within Intron 1 | Ubiquitous   |                 | Futatsumori M, Kasai K, Takatsu H, Shin HW, Nakayama K. Identification and characterization of novel isoforms of COP 1 subunits. J Biochem (Tokyo). 2000 Nov; 128(5):793-801                              |
| mmu-miR-152              | 3 | 11 | Intronic | ENSMUSG00000018672                   | COATOMER ZETA-2 SUBUNIT (ZETA-2 COAT PROTEIN) (ZETA-2 COP). COZ2_MOUSE [Source:SWISSPROT;Acc:Q9JHH9]                    | Within Intron 1 | Ubiquitous   | SWISSPROT       |   |
| hsa-miR-181a             | 3 | 9  | Intronic | OTTHUMG00000020657                   | Vega lncRNA (ba348K2.1)   | Within Intron 1 |  |                 |   |
| hsa-miR-181b-2           | 3 | 9  | Intronic | OTTHUMG00000020657                   | Vega lncRNA (ba348K2.1)   | Within Intron 1 |  |                 |   |

|                 |   |    |          |  |  |                    |   |  |
|-----------------|---|----|----------|--|--|--------------------|---|--|
| hsa-miR-181c    | 3 | 19 | Intronic | ENSESTG00000027265/19_1<br>3833877/skoyser AceView | NANOS HOMOLOG 3; NANOS3<br>[Source:SWISSPROT;Acc:NANOS3]   | Within Intron 1    | Expressed in germ cells                                       | Tsuda M, Sasaoka Y, Kiso M, Abe K, Haraguchi S, Kobayashi S, Saga Y. Conserved role of nanos proteins in germ cell development. Science. 2003 Aug 29;301(5637):1239-41 |
| mmu-miR-181a    | 3 | 2  |          |  |  | undefined          |   |  |
| mmu-miR-181b-2  | 3 | 2  |          |  |  | undefined          |   |  |
| mmu-miR-181c    | 3 | 8  |          |  |  | undefined          |   |  |
| hsa-miR-196-1   | 4 | 17 | Intronic | HOXB6/17_47186052 NCBI<br>AceView                  | HOMEODOMAIN PROTEIN HOX-B6 (HOX-2B) (HOX-2.2) (HU-2). [Source: SWISSPROT (P17509)]   | Within Intron 1    |   |  |
| hsa-miR-196-2   | 4 | 12 | Intronic | ENSESTG00000013465/<br>ENSG00000170338             | HOMEODOMAIN PROTEIN HOX-C6 (HOX-3C) (HHO.C8) (CP25). [Source: SWISSPROT (P09630)]  | Within Intron 1    |   |  |
| mmu-miR-196-1   | 4 | 11 |          |  |  | undefined          |   |  |
| mmu-miR-196-2   | 4 | 15 |          |  |  | undefined          |   |  |
| hsa-miR-199a-1  | 4 | 19 |          |  |  |                    |   |  |
| hsa-miR-199a*-1 | 2 | 19 |          |  |  |                    |   |  |
| hsa-miR-199a-2  | 4 | 1  | Exonic   | 1_169353084/timi AceView                           | Possible miRNA   | Within Exon 1      | Expressed at high levels                                      | AceView/Aceembly   |
| hsa-miR-199a*-2 | 2 | 1  | Exonic   | 1_169353084/timi AceView                           | Possible miRNA   | Within Exon 1      | Expressed at high levels                                      | AceView/Aceembly   |
| hsa-miR-199b    | 4 | 9  | Intronic | GOLGA2/9_126414324 NCBI<br>AceView                 | GOLGI AUTOANTIGEN, GOLGIN SUBFAMILY A MEMBER 2 (GOLGI MATRIX PROTEIN GM130) (GM130 AUTOANTIGEN) (GOLGIN-95). GOLGA2 [Source: SWISSPROT (Q08379)] | Within Last Intron | Expressed in many tissues. High expression in pituitary gland | Affy U95A: 35436_at  |
| mmu-miR-199a-1  | 4 | 9  | Intronic | ENSMUSG00000032182                                 | Novel Protein  | Within Intron 10   |   |  |
| mmu-miR-199a*-1 | 2 | 9  | Intronic | ENSMUSG00000032182                                 | Novel Protein  | Within Intron 10   |   |  |
| mmu-miR-199a-2  | 4 | 1  |          |  |  | undefined          |   |  |
| mmu-miR-199a*-2 | 2 | 1  |          |  |  | undefined          |   |  |
| mmu-miR-199b    | 4 | 2  |          |  |  | undefined          |   |  |
| hsa-miR-200a    | 3 | 1  |          |  |  | undefined          |   |  |
| hsa-miR-200b    | 3 | 1  |          |  |  | undefined          |   |  |
| hsa-miR-200c    | 3 | 12 |          |  |  | undefined          |   |  |
| mmu-miR-200a    | 3 | 4  | Intronic | ENSMUSG00000029074/<br>ENSMUSESTG00000026542       | Novel Protein  | Within Intron 1    |   |  |
| mmu-miR-200b    | 3 | 4  | Intronic | ENSMUSESTG00000026542                              | Novel Protein  | Within Intron 1    |   |  |
| mmu-miR-200c    | 3 | 6  | Intronic | ENSMUSESTG00000015291<br>MBuild30                  | Possible miRNA   | Within Intron 1    |   |  |

|               |   |    |          |                 |  |                  |  |           |
|---------------|---|----|----------|-----------------|--|------------------|--|-----------|
| hsa-miR-218-1 | 2 | 4  | Intronic | ENSG00000145147 | SLIT HOMOLOG 2 PROTEIN PRECURSOR (H-SLIT-2). SLIT2 [Source:SWISSPROT;Acc:O94813] | Within Intron 15 | Fetal lung and kidney, and adult spinal cord. Weak expression in adult adrenal gland, thyroid, trachea | SWISSPROT |
| hsa-miR-218-2 | 2 | 5  | Intronic | ENSG00000184347 | SLIT HOMOLOG 3; SLIT3 [Source:RefSeq;Acc:NM_003062]                              | Within Intron 14 |  |           |
| mmu-miR-218-1 | 2 | 5  | Intronic | 20563 NCBI      | SLIT2. [Source: SPTREMBL (Q9R1B9)]   | Within Intron 5  |  |           |
| mmu-miR-218-2 | 2 | 11 | Intronic | 20564 NCBI      | SLIT-3 [Source: SPTREMBL [Source:RefSeq;Acc:NM_003062]                           | Within Intron    |  |           |