

## Supplemental Table B. miRNAs in Introns of Non-Coding Transcription Units

| microRNA     | miR Copy Number (identical) | miR Chr Location | Host Gene/TU                           | Host Gene/TU Details                                      | microRNA Mapping Position Within Host Gene/TU | Host Gene/TU Expression   | Expression Source/Ref  |
|--------------|-----------------------------|------------------|--|---|---|---|--|
| hsa-let-7d   | 1                           | 9                | OTTHUMG00000020259                     | Vega miRNA (bA2B6.1)                                      | Within Intron 3                               |   |  |
| mmu-let-7d   | 1                           | 13               |  |   | undefined                                     |   |  |
| hsa-miR-7-2  | 3                           | 15               |  |   | undefined                                     |   |  |
| mmu-miR-7-2  | 2                           | 7                | ENSMUSESTG00000007393                  | Possible miRNA  | Within Intron 1                               |   |  |
| hsa-miR-15a  | 1                           | 13               | 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-16-1 | 2                           | 13               | OTTHUMG00000016927; ENSESTG00000016967 | DELETED IN LYMPHOCYTIC LEUKEMIA 2 (DLEU2) miRNA           | Within Intron 4                               | same  | same   |
| mmu-miR-15a  | 2                           | 14               | ENSMUSESTG00000010266                  | DELETED IN LYMPHOCYTIC LEUKEMIA 2 (DLEU2) miRNA           | Within Intron 1                               |   |  |
| mmu-miR-16-1 | 2                           | 14               | ENSMUSESTG00000010266                  | DELETED IN LYMPHOCYTIC LEUKEMIA 2 (DLEU2) miRNA           | Within Intron 1                               |   |  |
| mmu-miR-15a  | 1                           | 14               | 1810047A16 RIKEN                       | FANTOM2 miRNA [DELETED IN LYMPHOCYTIC LEUKEMIA 2 (DLEU2)] | Within Intron 4                               |   |  |
| mmu-miR-16-1 | 2                           | 14               | 1810047A16 RIKEN                       | FANTOM2 miRNA [DELETED IN LYMPHOCYTIC LEUKEMIA 2 (DLEU2)] | Within Intron 4                               |   |  |

|               |   |   |  |                |                 |
|---------------|---|---|--|----------------|-----------------|
| hsa-miR-30a   | 1 | 6 | ENSESTG00000011458/OTTHUMG00000015006  | Possible miRNA | Within Intron 3 |
| hsa-miR-30a*  | 1 | 6 | ENSESTG00000011458; OTTHUMG00000015006 | Possible miRNA | Within Intron 3 |
| hsa-miR-30c-2 | 2 | 6 | ENSESTG00000011458; OTTHUMG00000015006 | Possible miRNA | Within Intron 3 |
| mmu-miR-30a   | 1 | 1 |  |                | undefined       |
| mmu-miR-30a*  | 1 | 1 |  |                | undefined       |
| mmu-miR-30c-2 | 2 | 1 |  |                | undefined       |

|            |   |   |                    |                         |                 |
|------------|---|---|--------------------|-------------------------|-----------------|
| hsa-miR-31 | 1 | 9 | OTTHUMG00000019681 | Vega miRNA (bA354P17.9) | Within Intron 1 |
| mmu-miR-31 | 1 | 4 |                    |                         | undefined       |

|                |   |    |                       |                                     |   |
|----------------|---|----|-----------------------|-------------------------------------|---|
| hsa-miR-100    | 1 | 11 | ENSESTG00000015836    | Possible miRNA (ENSESTT00000036713) | Within Intron 2                                     |
| hsa-let-7a-2   | 3 | 11 | ENSESTG00000015836    | Possible miRNA (ENSESTT00000036713) | Within Intron 2                                     |
| hsa-miR-125b-1 | 2 | 11 | ENSESTG00000015836    | Possible miRNA (ENSESTT00000036713) | Within Intron 2 (evidence for alternative splicing) |
| hsa-miR-125b-1 | 2 | 11 | ENSESTG00000015836    | Possible miRNA (ENSESTT00000036715) | Within Intron 1 (evidence for alternative splicing) |
| mmu-miR-100    | 1 | 9  | ENSMUSESTG00000011922 | Possible miRNA                      | Within Intron 4                                     |
| mmu-let-7a-2   | 2 | 9  | ENSMUSESTG00000011922 | Possible miRNA                      | Within Intron 4                                     |
| mmu-miR-125b-1 | 2 | 9  | ENSMUSESTG00000011922 | Possible miRNA                      | Within Intron 4 (evidence for alternative splicing) |
| mmu-miR-125b-1 | 2 | 9  | ENSMUSESTG00000011923 | Possible miRNA                      | Within Intron 1 (evidence for alternative splicing) |
| mmu-miR-125b-1 | 3 | 9  | 2610203C20 Riken      | FANTOM2 miRNA                       | Within Intron 1 (evidence for alternative splicing) |

|               |   |    |                      |                |   |                |                 |
|---------------|---|----|----------------------|----------------|---|----------------|-----------------|
| hsa-miR-129-2 | 2 | 11 | 11_43541975/glakarby | Possible miRNA | Within Intron 1 (evidence for alternative splicing) | Well expressed | Aceview/Asembly |
| mmu-miR-129-2 | 2 | 2  |                      |                | undefined   |                |                 |

|                |   |    |   |  |   |   |   |
|----------------|---|----|---|--|---|---|---|
| hsa-miR-132    | 1 | 17 |   |  |   | undefined   |   |
| hsa-miR-212    | 1 | 17 |   |  |   | undefined   |   |
| mmu-miR-132    | 1 | 11 | ENSMUSESTG00000011295<br>Mbuild 30      | Possible miRNA   | Within Intron 1   |   |   |
| mmu-miR-212    | 1 | 11 | ENSMUSESTG00000011295<br>Mbuild 30      | Possible miRNA   | Within Intron 1   |   |   |
| hsa-miR-135a-1 | 2 | 3  | 3_52291509/swofaw<br>AceView            | Possible miRNA   | Within Intron 1   | Expressed at moderate levels  | AceView/Asembly   |
| hsa-miR-135a-1 | 2 | 3  | 3_52286238/swarfaw<br>AceView           | Possible miRNA   | Within Exon on opposite strand                                | Expressed at moderate levels  | AceView/Asembly   |
| mmu-miR-135a-1 | 2 | 9  | 6230410P16 RIKEN                        | GLYCERATE KINASE-like gene                                       | Within Exon 4 on opposite strand (note miR maps within 3'UTR) |   |   |
| hsa-miR-135a-2 | 2 | 12 | NCRMS NCBI; 12_96361263/yase<br>AceView | Non Coding RNA in rhabdomyosarcoma (RMS) (NCRMS)                 | Within Intron 9   | Weak expression in brain, testis, and liver. Expressed in Rhabdomyosarcoma alveolar tumor tissue. | 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 |
| mmu-miR-135a-2 | 2 | 10 | D930049J19 RIKEN                        | FANTOM2 miRNA [Non Coding RNA in rhabdomyosarcoma (RMS) (NCRMS)] | Within Intron 7   |   |   |
| mmu-miR-135a-2 | 2 | 10 | ENSMUSESTG00000002435                   | [Non Coding RNA in rhabdomyosarcoma (RMS) (NCRMS)] miRNA         | Within Intron 1   |   |   |
| hsa-miR-135b   | 1 | 1  | ENSESTG00000002491                      | Possible miRNA   | Within Intron 1   |   |   |
| mmu-miR-135b   | 1 | 1  | ENSMUSESTG00000018175                   | Possible miRNA   | Within Intron 1   |   |   |

|                |   |    |  |  |                                       |                 |           |
|----------------|---|----|--|--|---------------------------------------|-----------------|-----------|
| hsa-miR-138-1  | 2 | 3  |  |  | not enough information                |                 |           |
| mmu-miR-138-1  | 2 | 9  | ENSMUSESTG00000023216                  | Possible lncRNA  | Within Intron 1 on opposite strand    |                 |           |
| hsa-miR-141    | 1 | 12 |  |  | undefined                             |                 |           |
| hsa-miR-200c   | 1 | 12 |  |  | undefined                             |                 |           |
| mmu-miR-141    | 1 | 6  | ENSMUSESTG00000015291<br>MBuild30      | Possible lncRNA  | Within Intron 1                       |                 |           |
| mmu-miR-200c   | 1 | 6  | ENSMUSESTG00000015291<br>MBuild30      | Possible lncRNA  | Within Intron 1                       |                 |           |
| hsa-miR-154    | 1 | 14 |  |  | undefined                             |                 |           |
| mmu-miR-154    | 1 | 12 | ENSMUSESTG00000016217                  | Possible lncRNA  | Within Intron 2                       |                 |           |
| hsa-miR-181a   | 3 | 9  | OTTHUMG00000020657                     | Vega lncRNA (bA348K2.1)  | Within Intron 1                       |                 |           |
| hsa-miR-181b-2 | 3 | 9  | OTTHUMG00000020657                     | Vega lncRNA (bA348K2.1)  | Within Intron 1                       |                 |           |
| hsa-miR-181a   | 3 | 9  | OTTHUMG00000020661/ENS<br>G00000148200 | ORPHAN NUCLEAR<br>RECEPTOR NR6A1 (GERM<br>CELL NUCLEAR FACTOR)<br>(GCNF) (RETINOID<br>RECEPTOR-RELATED TESTIS<br>SPECIFIC RECEPTOR) (RTR).<br>NR6A1<br>[Source:SWISSPROT;Acc:Q1<br>5406] | Within Intron 2 on<br>opposite strand | Testis specific | SWISSPROT |
| hsa-miR-181b-2 | 3 | 9  | OTTHUMG00000020661/ENS<br>G00000148200 | ORPHAN NUCLEAR<br>RECEPTOR NR6A1 (GERM<br>CELL NUCLEAR FACTOR)<br>(GCNF) (RETINOID<br>RECEPTOR-RELATED TESTIS<br>SPECIFIC RECEPTOR) (RTR).<br>NR6A1<br>[Source:SWISSPROT;Acc:Q1<br>5406] | Within Intron 2 on<br>opposite strand | Testis specific | SWISSPROT |

|                |   |   |                       |  |  |
|----------------|---|---|-----------------------|--|--|
| mmu-miR-181a   | 3 | 2 | ENSMUSG00000026752    | ORPHAN NUCLEAR RECEPTOR NR6A1 (GERM CELL NUCLEAR FACTOR) (GCNF) (RETINOID RECEPTOR-RELATED TESTIS SPECIFIC RECEPTOR) (RTR). NR61_MOUSE [Source:SWISSPROT;Acc:Q64249] | Within Intron 3 on opposite strand       |
| mmu-miR-181b-2 | 3 | 2 | ENSMUSG00000026752    | ORPHAN NUCLEAR RECEPTOR NR6A1 (GERM CELL NUCLEAR FACTOR) (GCNF) (RETINOID RECEPTOR-RELATED TESTIS SPECIFIC RECEPTOR) (RTR). NR61_MOUSE [Source:SWISSPROT;Acc:Q64249] | Within Intron 3 on opposite strand       |
| mmu-miR-181b-2 | 3 | 2 | C230005O04 RIKEN      | FANTOM2 mlncRNA  | Within Exon 1 on opposite strand         |
| hsa-miR-194-1  | 2 | 1 | ENSG00000067704       | PROBABLE ISOLEUCYL TRNA SYNTHETASE (Swiss Prot: NM_018060)   | Within Intron 12 on opposite strand      |
| mmu-miR-194-1  | 2 | 1 | 2010103J01 RIKEN      | FANTOM2 mlncRNA  | Within Intron 1                          |
| mmu-miR-194-1  | 2 | 1 | ENSMUSG00000026618    | SIMILAR TO MITOCHONDRIAL ISOLEUCINE TRNA SYNTHETASE. [Source:SPTREMBL;Acc:Q8BI P3]   | Within Intron 12 on opposite strand      |
| hsa-miR-213    | 1 | 1 |                       |  | undefined                                |
| hsa-miR-181b-1 | 2 | 1 |                       |  | undefined                                |
| mmu-miR-213    | 1 | 1 | ENSMUSESTG00000012306 | Possible mlncRNA   | Within Intron 2                          |
| mmu-miR-213    | 1 | 1 | ENSMUSESTG00000012309 | Possible mlncRNA   | Within Intron 1 on opposite strand       |
| mmu-miR-181b-1 | 2 | 1 | ENSMUSESTG00000012306 | Possible mlncRNA   | Within Intron 2                          |
| mmu-miR-181b-1 | 2 | 1 | ENSMUSESTG00000012309 | Possible mlncRNA   | Within Intron 1 on opposite strand       |
| mmu-miR-181b-1 | 2 | 1 | E130002N09 RIKEN      | FANTOM2 mlncRNA  | RIKEN mlncRNA maps next to miR precursor |

|                                  |   |   |                               |  |                                       |                             |                 |
|----------------------------------|---|---|-------------------------------|--|---------------------------------------|-----------------------------|-----------------|
| hsa-miR-302                      | 1 | 4 | 4_114030028/flygaw<br>Aceview | Possible miRNA   | Within Intron 2                       | Expressed at high<br>levels | AceView/Asembly |
| hsa-miR-302                      | 1 | 4 | ENSG00000174720               | HDCMA18P PROTEIN.<br>[Source:RefSeq;Acc:NM_016<br>648]         | Within Intron 8 on<br>opposite strand |                             |                 |
| mmu-miR-302                      | 1 | 3 | C330027G06 RIKEN              | SIMILAR TO HDCMA18P<br>PROTEIN. [Source:<br>SPTREMBL (Q8K2Y6)] | Within Intron 8 on<br>opposite strand |                             |                 |
| hsa-miR-325 may not be conserved |   |   |                               |  |                                       |                             |                 |
| mmu-miR-325                      | 1 | X | ENSMUSESTG00000006551         | Possible miRNA   | Within Intron 1                       |                             |                 |