

Supplemental Table C. miRNAs Found in Exons of Non-Coding TUs

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-7b	1	22	OTTHUMG00000030111/22_44720862/speyey AceView	Vega miRNA (dJ695O20B.C22.9)	Within Exon 1	Well expressed	Aceview/Aceambly
hsa-let-7c-2	2	22	OTTHUMG00000030111/22_44720862/speyey AceView	Vega miRNA (dJ695O20B.C22.9)	Within Exon 1	Well expressed	Aceview/Aceambly
mmu-let-7b	1	15			undefined		
mmu-let-7c-2	2	15			undefined		
hsa-let-7i	1	12			undefined		
mmu-let-7i	1	10	D630033A02 RIKEN	FANTOM2 miRNA	Within Exon 1		
hsa-miR-22	1	17	ENSESTG00000028158/17_1826145/snoee AceView	Possible miRNA	Within Exon 2 (evidence for alternative splicing)	Expressed at very high levels	AceView/Aceambly
mmu-miR-22	1	11	2210403K04 RIKEN	FANTOM2 miRNA	Within Exon 2 (evidence for alternative splicing)	Highest expression seen in neonate skin and lung	RIKEN Expression Array Database
hsa-miR-29b-2	2	1	1_205058566/glaw nabu AceView	Possible miRNA	Within Exon 1		
hsa-miR-29b-2	2	1	ENSG00000117335	MEMBRANE COFACTOR PROTEIN PRECURSOR (CD46 ANTIGEN) (TROPHOBLAST LEUCOCYTE COMMON ANTIGEN) (TLX) (SWISS PROT - MCP)	miRNA precursor maps close to this gene on coding opposite strand	Expressed in almost all cells except erythrocytes and some bone marrow cells	SWISSPROT
mmu-miR-29b-2	2	1	C030002C11 RIKEN	Possible miRNA	Within Exon 1		
hsa-miR-34b	1	11	ENSESTG00000013662	Possible miRNA	Within Exon 2		
hsa-miR-34c	1	11	ENSESTG00000013662	Possible miRNA	Within Exon 2		

mmu-miR-34b	1	9			undefined		
mmu-miR-34c	1	9			undefined		
hsa-miR-99b	2	19	19_56888521/biorbla	AceView Possible miRNA	Within Exon 1 on opposite strand	Expressed at high levels	Aceview/Asembly
hsa-let-7e	1	19	19_56888521/biorbla	AceView Possible miRNA	Within Exon 1 on opposite strand	Expressed at high levels	Aceview/Asembly
hsa-miR-125a	1	19	19_56888521/biorbla	AceView Possible miRNA	Within Exon 1 on opposite strand	Expressed at high levels	Aceview/Asembly
mmu-miR-99b	2	17			undefined		
mmu-let-7e	1	17			undefined		
mmu-miR-125a	1	17			undefined		
hsa-miR-101-1	2	1			undefined		
mmu-miR-101	2	4	ENSMUESTG00000022081	Possible miRNA	Within Exon 2		
hsa-miR-122a	1	18	18_54266208/slowsa	AceView Possible miRNA	Within Exon 2	Well Expressed	AceView/Asembly
mmu-miR-122a	1	18			undefined (note that mouse Build 32 is incorrectly assembled in the contig containing this miRNA)		
hsa-miR-127	1	14	Rtl1 NCBI	Retrotransposon-like gene 1 (Rtl1)	Within Exon 1 on opposite strand		
hsa-miR-136	1	14	Rtl1 NCBI	Retrotransposon-like gene 1 (Rtl1)	Within Exon 1 on opposite strand		
mmu-miR-127	1	12	Rtl1 NCBI	Retrotransposon-like gene 1 (Rtl1) (BK001261)	Within Exon 1 on opposite strand		
mmu-miR-136	1	12	Rtl1 NCBI	Retrotransposon-like gene 1 (Rtl1) (BK001261)	Within Exon 1 on opposite strand		
hsa-miR-133b	1	6	6_52060506/poyjee	Asembly Possible miRNA	Within Exon 1	Moderately expressed	Aceview/Asembly

hsa-miR-133b	1	6	OTTHUMG00000014842	Vega miRNA	Within Intron 2 on opposite strand		
mmu-miR-133b	1	1			undefined		
hsa-miR-137	1	1	1_97978084/toyda Acembly	Possible miRNA	Within Exon 2	Moderately expressed	Aceview/Acembly
mmu-miR-137	1	1	ENSMUSESTG00000012545	Possible miRNA	Within Exon 3		
hsa-miR-143	1	5	5_148836826/foygor Aceview	Possible miRNA	Within Exon 1	Moderately expressed	Aceview/Acembly
hsa-miR-145	1	5	5_148836826/foygor Aceview	Possible miRNA	Within Exon 1	Moderately expressed	Aceview/Acembly
mmu-miR-143	1	18			undefined		
mmu-miR-145	1	18			undefined		
hsa-miR-146	1	5	ENSESTG00000012459	Possible miRNA	Within Exon 2		
mmu-miR-146	1	11	5830402E17 RIKEN	FANTOM2 miRNA	Within Exon 1		
hsa-miR-150 predicted	1	19	19_54691494 AceView	40S RIBOSOMAL PROTEIN S11 (Swiss Prot: RPS11)	Within Exon 5 on opposite strand (note miR maps within 3'UTR)		
mmu-miR-150	1	7			undefined		
hsa-miR-155 predicted	1	21	ENSESTG00000018742; 21_25856092 Aceview; BIC NCBI	BIC miRNA (AF402776)	Within Exon 3	Highest expression in spleen, thymus	Tam W. Identification and characterization of human BIC, a gene on chromosome 21 that encodes a noncoding RNA. Gene. 2001 Aug 22;274(1-2):157-67
mmu-miR-155	1	16	Bic NCBI	Bic miRNA (AY096003)	Within Exon 2		

hsa-miR-192	1	11	11_64434198/snymuby AceView	Possible miRNA	Within Exon 1	Moderately expressed	Aceview/Asembly
mmu-miR-192	1	19			undefined		
hsa-miR-195 predicted	1	17	LOC284112/peeror NCBI Aceview	Possible miRNA	Within Exon 1	Well expressed	Aceview/Asembly
mmu-miR-195	1	11			undefined		
hsa-miR-196-4 predicted	4	7	ENSESTG00000015802	Possible miRNA	Within Exon 2		
mmu-miR-196-4 predicted	4	6			undefined		
hsa-miR-199a-2	3	1	1_169353084/timi AceView	Possible miRNA	Within Exon 1	Expressed at high levels	AceView/Asembly
hsa-miR-199a*-2	2	1	1_169353084/timi AceView	Possible miRNA	Within Exon 1	Expressed at high levels	AceView/Asembly
hsa-miR-214	1	1	1_169353084/timi AceView	Possible miRNA	Within Exon 2	Expressed at high levels	AceView/Asembly
hsa-miR-199a-2	3	1	ENSG00000053059	DYNAMIN 3 (EC 3.6.1.50) (DYNAMIN, TESTICULAR) (T-DYNAMIN). DYN3_HUMAN [Source:SWISSPROT;Acc:Q9UQ16]	Within Intron 14 on opposite strand	Highly expressed in testes. Also expressed in brain and lung.	A novel dynamin III isoform is up- regulated in the central nervous system in hypothyroidism. dynamin III transcript is brain-specific and selectively regulated by thyroid hormone status J Neurochem. 1996 Sep;67(3):927-31.
hsa-miR-199a*-2	2	1	ENSG00000053059	DYNAMIN 3 (EC 3.6.1.50) (DYNAMIN, TESTICULAR) (T-DYNAMIN). DYN3_HUMAN [Source:SWISSPROT;Acc:Q9UQ16]	Within Intron 14 on opposite strand	same	same

hsa-miR-214	1	1	ENSG00000053059	DYNAMIN 3 (EC 3.6.1.50) (DYNAMIN, TESTICULAR) (T-DYNAMIN). DYN3_HUMAN [Source:SWISSPROT;Acc:Q9UQ16]	Within Intron 14 opposite strand	same	same
mmu-miR-199a-2	3	1	ENSMUSG00000040265	DYNAMIN 3 (EC 3.6.1.50) (DYNAMIN, TESTICULAR) (T-DYNAMIN)	Within Intron 3 on opposite strand	Highly expressed in testes. Also expressed in brain and lung.	SWISS PROT
mmu-miR-199a*-2	2	1	ENSMUSG00000040265	DYNAMIN 3 (EC 3.6.1.50) (DYNAMIN, TESTICULAR) (T-DYNAMIN)	Within Intron 3 on opposite strand	Highly expressed in testes. Also expressed in brain and lung.	SWISS PROT
mmu-miR-214	1	1	D230012O04 RIKEN	Possible miRNA	Within Exon 1		
mmu-miR-214	1	1	ENSMUSG00000040265	DYNAMIN 3 (EC 3.6.1.50) (DYNAMIN, TESTICULAR) (T-DYNAMIN)	Within Intron 3 on opposite strand	Highly expressed in testes. Also expressed in brain and lung.	SWISS PROT
hsa-miR-202 does not appear conserved							
mmu-miR-202	1	7	G630041I22 RIKEN	FANTOM miRNA	Within Exon 2		
mmu-miR-202	1	7	ENSMUSESTG00000019381	Possible miRNA	Within Intron 1 on opposite strand		
hsa-miR-206	1	6			undefined		
mmu-miR-206	1	1	4831414J02/D930049J19 RIKEN	FANTOM2 miRNA (Mouse homolog of Rat Synapse-Specific 7H4 RNA) (BB613730)	Within Exon 1	Rat Synapse-Specific 7H4 expression is restricted to skeletal muscle. In cultured cells, expressed in differentiated muscle cells and not expressed in Schwann cells, fibroblasts, undifferentiated muscle cells	Velleca MA, Wallace MC, Merlie JP. A novel synapse-associated noncoding RNA. Mol Cell Biol. 1994 Nov;14(11):7095-104
hsa-miR-215	1	1	ENSG00000067704	PROBABLE ISOLEUCYL TRNA SYNTHETASE (Swiss Prot: NM_018060)	Within Intron 12 on opposite strand		
mmu-miR-215	1	1	2010103J01 RIKEN	FANTOM2 miRNA	Within Exon 2	Highest expression in neonate head	RIKEN Expression Array Database

mmu-miR-215	1	1	ENSMUSG00000026618	SIMILAR TO MITOCHONDRIAL ISOLEUCINE TRNA SYNTHETASE. [Source: SPTREMBL (Q8BIP3)]	Within Intron 11 on opposite strand		
hsa-miR-221	1	X	X_44651888/rytor AceView	Possible miRNA	Within Exon 1	Expressed at high levels	AceView/Asembly
hsa-miR-221	1	X	ENSESTG00000020404	Possible miRNA	Within Exon 2 on opposite strand		
mmu-miR-221	1	X			undefined		
hsa-miR-223	1	X	X_64102086/rertoy AceView	Possible miRNA	Within Exon 3	Expressed at high levels	AceView/Asembly
mmu-miR-223	1	X	9830169G21 RIKEN	Possible miRNA	Within Exon 2		
hsa-miR-296	1	20	20_58078195/flartu AceView	Possible miRNA	Within Exon 1	Expressed at moderate levels	AceView/Asembly
mmu-miR-296	1	2	D330038P10 RIKEN	FANTOM2 miRNA	Within Exon 1		
mmu-miR-296	1	2	ENSMUSESTG00000021919	Possible miRNA	Within Intron 1 on opposite strand		
hsa-miR-324-5p	1	17	17_7329130/tuwer AceView	Possible miRNA	Within Exon 3	Well Expressed	AceView/Asembly
hsa-miR-324-3p	1	17	17_7329130/tuwer AceView	Possible miRNA	Within Exon 3	Well Expressed	AceView/Asembly
hsa-miR-324-5p	1	17	ENSG00000072778	ACYL-COA DEHYDROGENASE, VERY LONG-CHAIN SPECIFIC, MITOCHONDRIAL PRECURSOR (EC 1.3.99.-) (VLCAD) (MVLCD). [Source:SWISSPROT;Acc:P50544]	Within Intron 11 on opposite strand		
hsa-miR-324-3p	1	17	ENSG00000072778	ACYL-COA DEHYDROGENASE, VERY LONG-CHAIN SPECIFIC, MITOCHONDRIAL PRECURSOR (EC 1.3.99.-) (VLCAD) (MVLCD). [Source:SWISSPROT;Acc:P50544]	Within Intron 11 on opposite strand		

mmu-miR-324-5p	1	11	ENSMUSG00000018574	ACYL-COA DEHYDROGENASE, VERY LONG-CHAIN SPECIFIC, MITOCHONDRIAL PRECURSOR (EC 1.3.99.-) (VLCAD) (MVLCD). [Source:SWISSPROT;Acc:P50544]	Within Intron 11 on opposite strand	
mmu-miR-324-3p	1	11	ENSMUSG00000018574	ACYL-COA DEHYDROGENASE, VERY LONG-CHAIN SPECIFIC, MITOCHONDRIAL PRECURSOR (EC 1.3.99.-) (VLCAD) (MVLCD). [Source:SWISSPROT;Acc:P50544]	Within Intron 11 on opposite strand	
hsa-miR-331	1	12			undefined	
mmu-miR-331	1	10	A630071D13 RIKEN	FANTOM2 mlncRNA	Within Exon 1	Expression seen in bone marrow, amygdala, eye Affy U74A: 106501_at; 105366_at