

Supplementary Table 1

Oligonucleotides

Control primers

Primer	5'-3' DNA sequence	Acc number
α -tubulinF	5'GATGGTGAAATGTGACCCTCGCC	NM_011653
α -tubulinR	5'-TGCCAACCTTGAAGCCATGG	
β -actinF	5'-CATCCGTAAGACCTCTATGCCAAC	NM_007393
β -actinR	5' CAAAGAAAGGGTGTAAAACGCAGC	
Oct4F	5'-CGGGCCGGGGGTTGTGCCTG	NM_174580
Oct4R	5'-GGCAAATTGATCAAGGTCTT	
Aurkc_F	5'- GCCGGATCCATGGAGCCCAGCACCTCA	AF054620
Aurkc_R	5'- GCCGGATCCGGAAGCCCCATGAACACA	

Primers for Argonaute genes

Primer	5'-3' DNA sequence	Acc number
Ago1F	5' TCTGTGCTGACAAGAATGAGCG	AB081471
Ago1R	5'- GTGCGTAGAGTATCCTGGTGAACC	
Ago2F	5'-AACATTCCCGCAGGCACAACCGTG	AB081472
Ago2R	5'-CAGAGGTATGGCTTCCTTCAG	
Ago3F	5'-CTCTTGCCAAGGCTGTACAG	NM_153402
Ago3R	5' GGACCTGACCTCTACATAGT	
Ago4F	5'-ATAGCACCGTCACACACCCG	AB081474
Ago4R	5'CCAAGACTCTCAGGCAAAATAC	
Ago5F	5'-GCAGTGTTCAGCAACCTGTTATC	AY135691
Ago5R	5'-AACGATTGTCATCCCAAAGCG	

Primers for generating dsRNA

Primer	5'-3' DNA sequence	RNAi experiments
dsAgo3F	5'TAATACGACTCACTATAGCGAGAAGCCTGTATCAGTTTGG	RNAi Ago2+3
dsAgo3R	5' TAATACGACTCACTATAGGCGTAAGGTATCTTGGTGAATC	RNAi Ago2+3
dsAgo2F	5'TAATACGACTCACTATAG AACGCCACCATGTACTCGGG	RNAi Ago2
dsAgo2R	5'TAATACGACTCACTATAG AGAGGGTTGGAACAGCCTTCAG	RNAi Ago2
dsAgo4F	5'TAATACGACTCACTATAGG-CCCGTCTGAGTTTGACTTTTAC	RNAi Ago3+4
dsAgo4R	5'TAATACGACTCACTATAGG-ACCTGAGAGAGGCAGTAGGC	RNAi Ago3+4
dsAuC	5'TAATACGACTCACTATAGGGGCTCGGCTCAAGGAAAATC	RNAi Aurora-C
dsAuC	5'-TAATACGACTCACTATAGG-ACACACAGAGCCTGGAGACC	RNAi Aurora-C

Primers for cDNA synthesis and subtractive hybridisation

Primer	5'-3' DNA sequence
d(T)24	TTTTTTTTTTTTTTTTTTTTTTTTTTTT
OL-1	5' ATGTCGTCCAGGCCGCTCTGGACAGAATTCAGA-TCTTTTTTTTTTTTTTTTTTTTTTTTTT
R-12	5'GATCTGCGGTGA
R-24	5'AGCACTCTCCAGCCCTCTCACCGCA
J-12	5'GATCTGTTCATG
J-24	5'ACCGACGTCGACTATCCATGAACA
N-12	5'GATCTTCCCTCG
N-24	5'AGGCAACTGTGCTATCCGAGGGAA

Primers for screened genes

Primer	5'-3' DNA sequence	Acc. Number
MosgF495	TCACTTGGGCTCACCGATTG	NM_205822
MosgR766	CCACCTGTCCTGGCACAAAAG	

Ccne2.557F	5'- GGATGGTGCCTTTTGTAGTGTG	NM_009830
Ccne2.742R	5'- CTCTTTGGTGGTGCATAATGCC	
Gbx2.1415F	5'- TGAAGGAACCCGTGTCAGACTC	NM_010262
Gbx2.1920R	5'- CTCCAAAATCAACCGACTGCTC	
FgfR2_F	TCAGTATCCACACATAAACGGCAG	XM_133840
FgfR2_R	TGGCGGCTGTCACTATCAGAAC	
Lepr2_F	TCTATGTGGTCCAGGTTTCGCTG	NM_010704
Lepr2_R	AGTGAGATTGGTCCGATTTCCC	
Psme3_F	ATGGCAGTTGCAGGTTTGCTG	NM_011192
Psme3_R	CATATTGTCATCATCTGATTCATCTTC	
Hhex_F	CAAGTGAGGTTCTCCAACGACC	NM_008245
Hhex_R	AAGTGTCCAAACTGTCCAACGC	
P270/ARID 1A_F	AGTATCCTGTGTGAACCTACAACGC	NM_033566
P270/ARID 1A_R	AAGAGGGGCAATGTCTGGCAAG	
Dncic2_F	CGACAGTTCTTTGATGAGCGTTG	NM_010064
Dncic2_R	CAGGAGTTCTTTTATTGCTGCGG	
Fgf9_F	GATGGCTCCCTTAGGTGAAGTTG	NM_013518
Fgf9_R	GGTCTTTCCTGGTTCCTGGATAG	

Primers for Dcpl1a

Dcpl1a_F	AGAATTCATGGCACTTTCCTGTTCCACA	
Dcpl1a_R	GGGGTACCGCTAGGTTGTGGTTGTCTTT	NM_133761

Primers for Ago2 into GFP fusion

A2_BH_F	gcc gga tcc atg tactegggag ceggccc	AB081472
A2_BH_R	gcc gga tcc agc aaagtacatggtgcgca	

Supplementary Table 2. miRNA microarray probes

ID	Name	Probe Sequence
EAM103	hsa-miR-124a	/5AmMC6/TGGCATTCACCGCGTGCCTTA
EAM105	hsa-miR-125b	/5AmMC6/TCACAAGTTAGGGTCTCAGGGA
EAM109	hsa-miR-7	/5AmMC6/AACAACAAAATCACTAGTCTTCCA
EAM111	hsa-let-7g	/5AmMC6/TAAGTGTACAACTACTACCTCA
EAM115	hsa-miR-16	/5AmMC6/CGCCAATATTTACGTGCTGCTA
EAM119	hsa-miR-29b	/5AmMC6/AACACTGATTTCAAATGGTGCTA
EAM121	hsa-miR-99a	/5AmMC6/CACAAGATCGGATCTACGGGT
EAM131	hsa-miR-92	/5AmMC6/ACAGGCCGGGACAAGTGAATAT
EAM133	hsa-miR-324-5p	/5AmMC6/ACACCAATGCCCTAGGGGATGCG
EAM137	hsa-miR-132	/5AmMC6/CCGACCATGGCTGTAGACTGTTA
EAM139	hsa-miR-146a	/5AmMC6/TAACCCATGGAATTCAGTTCTCA
EAM145	hsa-let-7c	/5AmMC6/AACCATACAACCTACTACCTCA
EAM147	hsa-let-7b	/5AmMC6/AACCACACAACCTACTACCTCA
EAM152	hsa-miR-9*	/5AmMC6/ACTTTCGGTTATCTAGCTTTAT
EAM153	hsa-let-7a	/5AmMC6/AACTATACAACCTACTACCTCA
EAM155	hsa-miR-136	/5AmMC6/TCCATCATCAAAACAAATGGAGT
EAM159	hsa-miR-130a	/5AmMC6/ATGCCCTTTTAAACATTGCACTG
EAM160	hsa-miR-26b	/5AmMC6/AACCTATCCTGAATTACTTGAA
EAM161	hsa-miR-28	/5AmMC6/CTCAATAGACTGTGAGCTCCTT
EAM163	hsa-miR-142-3p	/5AmMC6/TCCATAAAGTAGGAAACACTACA
EAM168	hsa-let-7e	/5AmMC6/CTATACAACCTCCTACCTCA
EAM171	hsa-miR-137	/5AmMC6/CTACGCGTATTCTTAAAGCAATAA
EAM175	hsa-miR-320	/5AmMC6/TCGCCCTCTCAACCCAGCTTTT
EAM179	hsa-let-7d	/5AmMC6/ACTATGCAACCTACTACCTCT
EAM181	hsa-let-7f	/5AmMC6/AACTATACAATCTACTACCTCA
EAM183	hsa-let-7i	/5AmMC6/AGCACAAACTACTACCTCA
EAM184	hsa-miR-100	/5AmMC6/CACAAGTTCGGATCTACGGGTT
EAM185	hsa-miR-103	/5AmMC6/TCATAGCCCTGTACAATGCTGCT
EAM186	hsa-miR-106a	/5AmMC6/GCTACCTGCACTGTAAGCACTTTT
EAM187	hsa-miR-107	/5AmMC6/TGATAGCCCTGTACAATGCTGCT
EAM189	hsa-miR-10a	/5AmMC6/CACAAATTCGGATCTACAGGGTA
EAM190	hsa-miR-10b	/5AmMC6/ACAAATTCGGTTCTACAGGGTA
EAM191	hsa-miR-122a	/5AmMC6/ACAAACACCATTGTCACTACCTCA
EAM192	hsa-miR-126*	/5AmMC6/CGCGTACCAAAAGTAATAATG
EAM193	hsa-miR-125a	/5AmMC6/CACAGGTTAAAGGGTCTCAGGGA
EAM194	hsa-miR-128a	/5AmMC6/AAAAGAGACCGGTTCACTGTGA
EAM195	hsa-miR-128b	/5AmMC6/GAAAGAGACCGGTTCACTGTGA
EAM198	hsa-miR-130b	/5AmMC6/GCCCTTTCATCATTTGCACTG
EAM200	hsa-miR-133a	/5AmMC6/ACAGCTGGTTGAAGGGGACCAA
EAM202	hsa-miR-134	/5AmMC6/TCCCTCTGGTCAACCAGTCACA
EAM203	hsa-miR-135a	/5AmMC6/TTCACATAGGAATAAAAAAGCCATA
EAM205	hsa-miR-138	/5AmMC6/GATTCACAACACCAGCT
EAM206	hsa-miR-139	/5AmMC6/AGACACGTGCACTGTAGA
EAM207	hsa-miR-140	/5AmMC6/CTACCATAGGGTAAAACCACT
EAM208	hsa-miR-141	/5AmMC6/CCATCTTTACCAGACAGTGTT
EAM209	hsa-miR-142-5p	/5AmMC6/GTAGTGCTTTCTACTTTATG
EAM210	hsa-miR-143	/5AmMC6/tgAGCTACAGTGCTTCATCTCA
EAM211	hsa-miR-144	/5AmMC6/CTAGTACATCATCTATACTGTA
EAM212	hsa-miR-145	/5AmMC6/AAGGGATTCTGGGAAAACCTGGAC
EAM214	hsa-miR-148a	/5AmMC6/ACAAAGTTCTGTAGTGCCTGA
EAM215	hsa-miR-148b	/5AmMC6/ACAAAGTTCTGTGATGCCTGA
EAM216	hsa-miR-149	/5AmMC6/GGAGTGAAGACACGGAGCCAGA
EAM217	hsa-miR-150	/5AmMC6/ACACTGGTACAAGGGTTGGGAGA
EAM218	hsa-miR-152	/5AmMC6/CCAAGTTCTGTGATGCCTGA
EAM219	hsa-miR-153	/5AmMC6/TCACTTTTGTGACTATGCAA
EAM220	hsa-miR-154	/5AmMC6/CGAAGGCAACACGGATAACCTA

EAM222	hsa-miR-15a	/5AmMC6/CACAAACCATTATGTGCTGCTA
EAM223	hsa-miR-15b	/5AmMC6/TGTAAACCATGATGTGCTGCTA
EAM224	hsa-miR-17-5p	/5AmMC6/ACTACCTGCACTGTAAGCACTTTG
EAM225	hsa-miR-18a	/5AmMC6/TATCTGCACTAGATGCACCTTA
EAM226	hsa-miR-181a	/5AmMC6/ACTCACCGACAGCGTTGAATGTT
EAM227	hsa-miR-181b	/5AmMC6/AACCCACCGACAGCAATGAATGTT
EAM228	hsa-miR-181c	/5AmMC6/ACTCACCGACAGGTTGAATGTT
EAM229	hsa-miR-182	/5AmMC6/TGTGAGTTCTACCATTGCCAAA
EAM230	hsa-miR-183	/5AmMC6/CAGTGAATTCTACCAGTGCCATA
EAM231	hsa-miR-187	/5AmMC6/CGGCTGCAACACAAGACACGA
EAM232	hsa-miR-192	/5AmMC6/GGCTGTCAATTCATAGGTCAG
EAM233	hsa-miR-196a	/5AmMC6/CCCAACAACATGAAACTACCTA
EAM234	hsa-miR-199a	/5AmMC6/GAACAGGTAGTCTGAACACTGGG
EAM235	hsa-miR-199b	/5AmMC6/GAACAGATAGTCTAAACTGGG
EAM236	hsa-miR-19a	/5AmMC6/TCAGTTTTGCATAGATTTGCACA
EAM237	hsa-miR-19b	/5AmMC6/TCAGTTTTGCATGGATTTGCACA
EAM238	hsa-miR-1	/5AmMC6/ATACATACTTCTTTACATTCCA
EAM238	hsa-miR-1	/5AmMC6/ATACATACTTCTTTACATTCCA
EAM240	hsa-miR-20a	/5AmMC6/CTACCTGCACTATAAGCACTTTA
EAM241	hsa-miR-203	/5AmMC6/CTAGTGGTCTTAAACATTTTAC
EAM242	hsa-miR-204	/5AmMC6/AGGCATAGGATGACAAAGGGAA
EAM243	hsa-miR-205	/5AmMC6/CAGACTCCGGTGGAAATGAAGGA
EAM244	hsa-miR-21	/5AmMC6/TCAACATCAGTCTGATAAGCTA
EAM245	hsa-miR-210	/5AmMC6/CAGCCGCTGTCACACGCACAG
EAM246	hsa-miR-211	/5AmMC6/AGGCGAAGGATGACAAAGGGAA
EAM247	hsa-miR-212	/5AmMC6/GGCCGTGACTGGAGACTGTTA
EAM248	hsa-miR-213	/5AmMC6/GGTACAATCAACGGTCGATGGT
EAM249	hsa-miR-214	/5AmMC6/CTGCCTGTCTGTGCCCTGCTGT
EAM250	hsa-miR-215	/5AmMC6/GTCTGTCAATTCATAGGTCAT
EAM251	hsa-miR-216	/5AmMC6/CACAGTTGCCAGCTGAGATTA
EAM252	hsa-miR-217	/5AmMC6/ATCCAATCAGTTCCTGATGCAGTA
EAM253	hsa-miR-218	/5AmMC6/ACATGGTTAGATCAAGCACAA
EAM254	hsa-miR-219	/5AmMC6/AGAATTGCGTTTGGACAATCA
EAM255	hsa-miR-22	/5AmMC6/ACAGTTCTTCAACTGGCAGCTT
EAM255	hsa-miR-22	/5AmMC6/ACAGTTCTTCAACTGGCAGCTT
EAM256	hsa-miR-220	/5AmMC6/AAAGTGTGAGATACGGTGTGG
EAM257	hsa-miR-221	/5AmMC6/GAAACCCAGCAGACAAATGTAGCT
EAM258	hsa-miR-222	/5AmMC6/GAGACCCAGTAGCCAGATGTAGCT
EAM259	hsa-miR-223	/5AmMC6/GGGGTATTTGACAAACTGACA
EAM260	hsa-miR-23a	/5AmMC6/GGAAATCCCTGGCAATGTGAT
EAM261	hsa-miR-23b	/5AmMC6/GTGGTAATCCCTGGCAATGTGAT
EAM262	hsa-miR-24	/5AmMC6/CTGTTCTGCTGAACTGAGCCA
EAM263	hsa-miR-26a	/5AmMC6/AGCCTATCCTGGATTACTTGAA
EAM264	hsa-miR-27b	/5AmMC6/CAGAACTTAGCCACTGTGAA
EAM268	hsa-miR-29a	/5AmMC6/AACCGATTTAGATGGTGCTAG
EAM270	hsa-miR-30b	/5AmMC6/GCTGAGTGTAGGATGTTTACA
EAM270	hsa-miR-30b	/5AmMC6/GCTGAGTGTAGGATGTTTACA
EAM271	hsa-miR-30c	/5AmMC6/GCTGAGAGTGTAGGATGTTTACA
EAM272	hsa-miR-30d	/5AmMC6/CTTCCAGTCGGGGATGTTTACA
EAM273	hsa-miR-33	/5AmMC6/CAATGCAACTACAATGCAC
EAM275	hsa-miR-34a	/5AmMC6/ACAACCAGCTAAGACACTGCCA
EAM276	hsa-miR-9	/5AmMC6/TCATACAGCTAGATAACCAAAGA
EAM277	hsa-miR-96	/5AmMC6/GCAAAAAATGTGCTAGTGCCAAA
EAM278	hsa-miR-98	/5AmMC6/AACAATACAACCTTACTACCTCA
EAM279	hsa-miR-29c	/5AmMC6/TAACCGATTTCAAATGGTGCTA
EAM280	hsa-miR-30a-3p	/5AmMC6/GCTGCAAACATCCGACTGAAAG
EAM289	hsa-miR-129	/5AmMC6/AACAAGCCCAGACCGCAAAAAG
EAM290	hsa-miR-184	/5AmMC6/ACCTTATCAGTTCCTCCGTCCA

EAM291	hsa-miR-185	/5AmMC6/GAACTGCCTTTCTCTCCA
EAM292	hsa-miR-186	/5AmMC6/AAGCCCAAAGGAGAATTCTTTG
EAM293	hsa-miR-188	/5AmMC6/ACCCTCCACCATGCAAGGGATG
EAM295	hsa-miR-190	/5AmMC6/ACCTAATATATCAAACATATCA
EAM297	hsa-miR-193a	/5AmMC6/CTGGGACTTTGTAGGCCAGTT
EAM298	hsa-miR-194	/5AmMC6/TCCACATGGAGTTGCTGTTACA
EAM299	hsa-miR-195	/5AmMC6/GCCAATATTTCTGTGCTGCTA
EAM300	hsa-miR-197	/5AmMC6/GCTGGGTGGAGAAGGTGGTGAA
EAM301	hsa-miR-198	/5AmMC6/CCTATCTCCCCTCTGGACC
EAM303	hsa-miR-199a*	/5AmMC6/AACCAATGTGCAGACTACTGTA
EAM304	hsa-miR-200a	/5AmMC6/CATCGTTACCAGACAGTGTTA
EAM308	hsa-miR-206	/5AmMC6/CCACACACTTCTTACATTCCA
EAM310	hsa-miR-208	/5AmMC6/ACAAGCTTTTGTCTGCTTTAT
EAM311	hsa-miR-101	/5AmMC6/CTTCAGTTATCACAGTACTGTA
EAM312	hsa-miR-105	/5AmMC6/ACAGGAGTCTGAGCATTTGA
EAM313	hsa-miR-106b	/5AmMC6/ATCTGCACTGTCAGCACTTTA
EAM314	hsa-miR-126	/5AmMC6/GCATTATFACTCACGGTACGA
EAM315	hsa-miR-127	/5AmMC6/AGCCAAGCTCAGACGGATCCGA
EAM316	hsa-miR-147	/5AmMC6/GCAGAAGCATTTCCACACAC
EAM317	hsa-miR-155	/5AmMC6/CCCCTATCACGATTAGCATTA
EAM318	hsa-miR-17-3p	/5AmMC6/ACAAGTGCCTTCACTGCAGT
EAM319	hsa-miR-182*	/5AmMC6/TAGTTGGCAAGTCTAGAACCA
EAM320	hsa-miR-189	/5AmMC6/ACTGATATCAGCTCAGTAGGCAC
EAM321	hsa-miR-200b	/5AmMC6/CATCATTACCAGGCAGTATTAGA
EAM322	hsa-miR-200c	/5AmMC6/TCCATCATTACCCGGCAGTATT
EAM323	hsa-miR-224	/5AmMC6/TAAACGGAACCACTAGTACTTG
EAM324	hsa-miR-25	/5AmMC6/TCAGACCGAGACAAGTGCAATG
EAM325	hsa-miR-27a	/5AmMC6/GGCGGAACCTAGCCACTGTGAA
EAM326	hsa-miR-296	/5AmMC6/ACAGGATTGAGGGGGGCCCT
EAM327	hsa-miR-299-5p	/5AmMC6/ATGTATGTGGGACGGTAAACCA
EAM328	hsa-miR-301	/5AmMC6/GCTTTGACAATACTATTGCACTG
EAM329	hsa-miR-302a	/5AmMC6/TCACCAAAACATGGAAGCACTTA
EAM330	hsa-miR-30a-5p	/5AmMC6/GCTTCCAGTCGAGGATGTTTACA
EAM331	hsa-miR-30e-5p	/5AmMC6/TCCAGTCAAGGATGTTTACA
EAM332	hsa-miR-31	/5AmMC6/CAGCTATGCCAGCATCTTGCCT
EAM333	hsa-miR-32	/5AmMC6/GCAACTTAGTAATGTGCAATA
EAM335	hsa-miR-34b	/5AmMC6/CAATCAGCTAATGACACTGCCT
EAM336	hsa-miR-34c	/5AmMC6/GCAATCAGCTAACTACACTGCCT
EAM337	hsa-miR-93	/5AmMC6/CTACCTGCACGAACAGCACTTTG
EAM338	hsa-miR-95	/5AmMC6/TGCTCAATAAATACCCGTTGAA
EAM342	hsa-miR-135b	/5AmMC6/CACATAGGAATGAAAAGCCATA
EAM358	hsa-miR-323	/5AmMC6/AGAGGTGCACCGTGTAAATGTGC
EAM359	hsa-miR-324-3p	/5AmMC6/CCAGCAGCACCTGGGGCAGT
EAM361	hsa-miR-326	/5AmMC6/ACTGGAGGAAGGGCCAGAGG
EAM362	hsa-miR-328	/5AmMC6/ACGGAAGGGCAGAGAGGGCCAG
EAM365	hsa-miR-331	/5AmMC6/TTCTAGGATAGGCCAGGGGC
EAM367	hsa-miR-338	/5AmMC6/TCAACAAAATCACTGATGCTGGA
EAM368	hsa-miR-339	/5AmMC6/TGAGCTCCTGGAGGACAGGGA
EAM369	hsa-miR-340	/5AmMC6/GGCTATAAAGTAACTGAGACGGA
EAM371	hsa-miR-342	/5AmMC6/GACGGGTGCGATTTCTGTGTGAGA
EAM385	hsa-miR-335	/5AmMC6/ACATTTTTCGTTATTGCTCTT
EAM402	hsa-miR-133b	/5AmMC6/TAGCTGGTTGAAGGGACCAA
EAM403	hsa-miR-151	/5AmMC6/CCTCAAGGAGCTTCACTAGT
EAM404	hsa-miR-196b	/5AmMC6/CCAACAACAGGAACTACCTA
EAM405	hsa-miR-302b	/5AmMC6/CTACTAAAACATGGAAGCACTTA
EAM406	hsa-miR-302b*	/5AmMC6/AGAAAGCACTTCCATGTTAAAGT
EAM407	hsa-miR-302c	/5AmMC6/CCACTGAAACATGGAAGCACTTA
EAM408	hsa-miR-302c*	/5AmMC6/CAGCAGGTACCCCCATGTTA

EAM409	hsa-miR-302d	/5AmMC6/ACACTCAAACATGGAAGCACTTA
EAM410	hsa-miR-325	/5AmMC6/ACTTACTGGACACCTACTAGG
EAM412	hsa-miR-337	/5AmMC6/AAAGGCATCATATAGGAGCTGGA
EAM413	hsa-miR-345	/5AmMC6/GCCCTGGACTAGGAGTCAGCA
EAM414	hsa-miR-346	/5AmMC6/AGAGGCAGGCATGCGGGCAG
EAM415	hsa-miR-367	/5AmMC6/TCACCATTGCTAAAGTGCAATT
EAM416	hsa-miR-368	/5AmMC6/AAACGTGGAATTTCCCTCTATGT
EAM417	hsa-miR-369-3p	/5AmMC6/AAAGATCAACCATGTATTATT
EAM418	hsa-miR-370	/5AmMC6/CCAGGTTCCACCCAGCAGG
EAM419	hsa-miR-371	/5AmMC6/ACACTCAAAAGATGGCGGCA
EAM420	hsa-miR-372	/5AmMC6/ACGCTCAAATGTCGCAGCAC
EAM421	hsa-miR-373	/5AmMC6/ACACCCCAAATCGAAGCAC
EAM422	hsa-miR-373*	/5AmMC6/GGAAAGCGCCCCATTTTGA
EAM423	hsa-miR-374	/5AmMC6/CACTTATCAGGTTGTATTATAA
EAM500	hsa-miR-146b	/5AmMC6/AGCCTATGGAATTCAGTTCT
EAM501	hsa-miR-154*	/5AmMC6/AATAGGTCAACCGTGTATGA
EAM502	hsa-miR-181d	/5AmMC6/AACCCACCGACAACAATGAA
EAM503	hsa-miR-18b	/5AmMC6/TAAC TGCACTAGATGCACCT
EAM504	hsa-miR-191*	/5AmMC6/GGGGACGAAATCCAAGCGCA
EAM505	hsa-miR-193b	/5AmMC6/AAAGCGGGACTTTGAGGGCC
EAM506	hsa-miR-200a*	/5AmMC6/TCCAGCACTGTCCGGTAAGA
EAM507	hsa-miR-202	/5AmMC6/TTTTCCCATGCCCTATACCT
EAM508	hsa-miR-202*	/5AmMC6/AAAGAAGTATATGCATAGGA
EAM509	hsa-miR-20b	/5AmMC6/CTACCTGCACTATGAGCACT
EAM510	hsa-miR-299-3p	/5AmMC6/AAGCGGTTTACCATCCCACA
EAM511	hsa-miR-302a*	/5AmMC6/AAAGCAAGTACATCCACGTT
EAM512	hsa-miR-30e-3p	/5AmMC6/GCTGTAAACATCCGACTGAA
EAM513	hsa-miR-329	/5AmMC6/AAAGAGGTTAACCAGGTGTG
EAM514	hsa-miR-330	/5AmMC6/TCTCTGCAGCCGTGTGCTT
EAM515	hsa-miR-361	/5AmMC6/GTACCCCTGGAGATTCTGAT
EAM516	hsa-miR-362	/5AmMC6/CTCACACCTAGGTTCCAAGG
EAM517	hsa-miR-363	/5AmMC6/TTACAGATGGATACCGTGCA
EAM518	hsa-miR-365	/5AmMC6/ATAAGGATTTTTAGGGGCAT
EAM519	hsa-miR-369-5p	/5AmMC6/GCGAATATAACACGGTCGAT
EAM520	hsa-miR-375	/5AmMC6/TCACGCGAGCCGAACGAACA
EAM521	hsa-miR-376a	/5AmMC6/ACGTGGATTTTCCCTCTATGA
EAM522	hsa-miR-376b	/5AmMC6/AACATGGATTTTCCCTCTATG
EAM523	hsa-miR-377	/5AmMC6/ACAAAAGTTGCCTTTGTGTG
EAM524	hsa-miR-378	/5AmMC6/ACACAGGACCTGGAGTCAGG
EAM525	hsa-miR-379	/5AmMC6/TACGTTCCATAGTCTACCA
EAM526	hsa-miR-380-3p	/5AmMC6/AAGATGTGGACCATAATTACA
EAM527	hsa-miR-380-5p	/5AmMC6/GCGCATGTTCTATGGTCAAC
EAM528	hsa-miR-381	/5AmMC6/ACAGAGAGCTTGCCCTTGTA
EAM529	hsa-miR-382	/5AmMC6/CGAATCCACCACGAACA ACT
EAM530	hsa-miR-383	/5AmMC6/AGCCACAATCACCTTCTGAT
EAM531	hsa-miR-384	/5AmMC6/TATGAACAATTTCTAGGAAT
EAM532	hsa-miR-409-3p	/5AmMC6/AGGGGTTACCGAGCAACAT
EAM533	hsa-miR-409-5p	/5AmMC6/TGCAAAGTTGCTCGGGTAAC
EAM534	hsa-miR-410	/5AmMC6/AACAGGCCATCTGTGTTATA
EAM535	hsa-miR-412	/5AmMC6/ACGGCTAGTGGACCAGGTGA
EAM536	hsa-miR-422a	/5AmMC6/GGCCTTCTGACCCTAAGTCC
EAM537	hsa-miR-422b	/5AmMC6/GGCCTTCTGACTCCAAGTCC
EAM538	hsa-miR-423	/5AmMC6/CTGAGGGGCTCAGACCGAG
EAM539	hsa-miR-424	/5AmMC6/TTCAAAACATGAATTGCTGC
EAM540	hsa-miR-425	/5AmMC6/GGCGGACACGACATTCCCGA
EAM541	hsa-miR-429	/5AmMC6/ACGGTTTACCAGACAGTAT
EAM542	hsa-miR-431	/5AmMC6/TGCATGACGGCCTGCAAGAC
EAM543	hsa-miR-432	/5AmMC6/CCACCCAATGACCTACTCCA

EAM544	hsa-miR-432*	/5AmMC6/AGACATGGAGGAGCCATCCA
EAM545	hsa-miR-433	/5AmMC6/ACACCGAGGAGCCCATCATG
EAM546	hsa-miR-448	/5AmMC6/ATGGGACATCCTACATATGC
EAM547	hsa-miR-449	/5AmMC6/ACCAGCTAACAAATACACTGC
EAM548	hsa-miR-450	/5AmMC6/TATTAGGAACACATCGCAAA
EAM549	hsa-miR-451	/5AmMC6/AAACTCAGTAATGGTAACGG
EAM550	hsa-miR-452	/5AmMC6/GTCTCAGTTTCTCTGCAAA
EAM551	hsa-miR-452*	/5AmMC6/CTTCTTTCAGATGAGACTG
EAM552	hsa-miR-453	/5AmMC6/CGAACTCACCACGGACAACC
EAM553	hsa-miR-485-3p	/5AmMC6/AGAGGAGAGCCGTGTATGAC
EAM554	hsa-miR-485-5p	/5AmMC6/GAATTCATCACGGCCAGCCT
EAM555	hsa-miR-488	/5AmMC6/TTGAGAGTGCCATTATCTGG
EAM556	hsa-miR-489	/5AmMC6/GCTGCCGTATATGTGATGTC
EAM557	hsa-miR-490	/5AmMC6/CAGCATGGAGTCCCTCCAGGT
EAM558	hsa-miR-491	/5AmMC6/TCCTCATGGAAGGGTTCCCC
EAM559	hsa-miR-492	/5AmMC6/AAGAATCTTGTCCCGCAGGT
EAM560	hsa-miR-493	/5AmMC6/AATGAAAGCCTACCATGTAC
EAM561	hsa-miR-494	/5AmMC6/AAGAGGTTTCCCGTGTATGT
EAM562	hsa-miR-495	/5AmMC6/AAAGAAGTGCACCATGTTTG
EAM563	hsa-miR-496	/5AmMC6/GAGATTGGCCATGTAAT
EAM564	hsa-miR-497	/5AmMC6/ACAAACCACAGTGTGCTGCT
EAM565	hsa-miR-498	/5AmMC6/GAAAAACGCCCCCTGGCTTG
EAM566	hsa-miR-499	/5AmMC6/TTAAACATCACTGCAAGTCT
EAM567	hsa-miR-500	/5AmMC6/CAGAACTCTTGCCCGGTGC
EAM568	hsa-miR-501	/5AmMC6/TCTCACCCAGGGACAAAGGA
EAM569	hsa-miR-502	/5AmMC6/TAGCACCCAGATAGCAAGGA
EAM570	hsa-miR-503	/5AmMC6/CTGCAGAACTGTTCCCGCTG
EAM571	hsa-miR-504	/5AmMC6/ATAGAGTGCAGACCAGGGTC
EAM572	hsa-miR-505	/5AmMC6/GAGGAAACCAGCAAGTGTG
EAM573	hsa-miR-506	/5AmMC6/TCTACTCAGAAGGGTGCCTT
EAM574	hsa-miR-507	/5AmMC6/TTCACTCCAAAAGGTGCAAA
EAM575	hsa-miR-508	/5AmMC6/TCTACTCCAAAAGGCTACAA
EAM576	hsa-miR-509	/5AmMC6/TCTACCCACAGACGTACCAA
EAM577	hsa-miR-510	/5AmMC6/TGTGATTGCCACTCTCCTGA
EAM578	hsa-miR-511	/5AmMC6/TGACTGCAGAGCAAAAGACA
EAM579	hsa-miR-512-3p	/5AmMC6/GACCTCAGCTATGACAGCAC
EAM580	hsa-miR-512-5p	/5AmMC6/GAAAGTGCCCTCAAGGCTGA
EAM581	hsa-miR-513	/5AmMC6/ATAAATGACACCTCCCTGTG
EAM582	hsa-miR-514	/5AmMC6/CTACTCACAGAAGTGTCAAT
EAM583	hsa-miR-515-3p	/5AmMC6/ACGCTCCAAAAGAAGGCACT
EAM584	hsa-miR-515-5p	/5AmMC6/CAGAAAGTGCTTTCTTTTGG
EAM585	hsa-miR-516-3p	/5AmMC6/ACCCTCTGAAAGGAAGCA
EAM586	hsa-miR-516-5p	/5AmMC6/AAAGTGCTTCTTACCTCCAG
EAM587	hsa-miR-517*	/5AmMC6/AGACAGTGCTTCCATCTAGA
EAM588	hsa-miR-517a	/5AmMC6/AACACTCTAAAGGGATGCAC
EAM589	hsa-miR-517b	/5AmMC6/AACACTCTAAAGGGATGCAC
EAM590	hsa-miR-517c	/5AmMC6/ACACTCTAAAGGGATGCAG
EAM591	hsa-miR-518a	/5AmMC6/TCCAGCAAAGGGAAGCGCTT
EAM592	hsa-miR-518a-2*	/5AmMC6/AAAGGGCTTCCCTTTGCAGA
EAM593	hsa-miR-518b	/5AmMC6/ACCTCTAAAGGGGAGCGCTT
EAM594	hsa-miR-518c	/5AmMC6/CACTCTAAAGAGAAGCGCTT
EAM595	hsa-miR-518c*	/5AmMC6/CAGAAAGTGCTTCCCTCCAG
EAM596	hsa-miR-518d	/5AmMC6/GCTCCAAAAGGGAAGCGCTTT
EAM597	hsa-miR-518e	/5AmMC6/ACACTCTGAAGGGAAGCGCT
EAM598	hsa-miR-518f	/5AmMC6/TCCTCTAAAGAGAAGCGCTT
EAM599	hsa-miR-518f*	/5AmMC6/AGAGAAAGTGCTTCCCTCTA
EAM600	hsa-miR-519a	/5AmMC6/GTAACACTCTAAAAGGATGC
EAM601	hsa-miR-519b	/5AmMC6/AAACCTCTAAAAGGATGCAC

EAM602	hsa-miR-519c	/5AmMC6/ATCCTCTAAAAAGATGCACT
EAM603	hsa-miR-519d	/5AmMC6/ACACTCTAAAGGGAGGCACT
EAM604	hsa-miR-519e	/5AmMC6/ACACTCTAAAGGGAGGCACT
EAM605	hsa-miR-519e*	/5AmMC6/GAAAGTGCTCCCTTTTGGAG
EAM606	hsa-miR-520a	/5AmMC6/ACAGTCCAAAGGAAGCACT
EAM607	hsa-miR-520a*	/5AmMC6/AGAAAGTACTTCCCTCTGGA
EAM608	hsa-miR-520b	/5AmMC6/CCCTCTAAAAGGAAGCACTT
EAM609	hsa-miR-520c	/5AmMC6/AACCCCTCTAAAAGGAAGCAC
EAM610	hsa-miR-520d	/5AmMC6/AACCCACCAAAGAGAAGCAC
EAM611	hsa-miR-520d*	/5AmMC6/CAGAAAGGGCTTCCCTTTGT
EAM612	hsa-miR-520e	/5AmMC6/CCCTCAAAAAGGAAGCACTT
EAM613	hsa-miR-520f	/5AmMC6/AACCCCTCTAAAAGGAAGCAC
EAM614	hsa-miR-520g	/5AmMC6/ACACTCTAAAGGAAGCACT
EAM615	hsa-miR-520h	/5AmMC6/ACTCTAAAGGAAGCACTTT
EAM616	hsa-miR-521	/5AmMC6/ACACTCTAAAGGAAGTGCG
EAM617	hsa-miR-522	/5AmMC6/AACACTCTAAAGGAACCAT
EAM618	hsa-miR-523	/5AmMC6/CCCTCTATAGGAAGCGCGT
EAM619	hsa-miR-524	/5AmMC6/ACTCCAAAGGAAGCGCCTT
EAM620	hsa-miR-524*	/5AmMC6/GAGAAAGTGCTTCCCTTTGT
EAM621	hsa-miR-525	/5AmMC6/AGAAAGTGCATCCCTCTGGA
EAM622	hsa-miR-525*	/5AmMC6/GCTCTAAAGGAAGCGCCTT
EAM623	hsa-miR-526a	/5AmMC6/AGAAAGTGCTTCCCTCTAGA
EAM624	hsa-miR-526b	/5AmMC6/AACAGAAAGTGCTTCCCTCA
EAM625	hsa-miR-526b*	/5AmMC6/GCCTCTAAAAGGAAGCACTT
EAM626	hsa-miR-526c	/5AmMC6/AACAGAAAGCGCTTCCCTCT
EAM627	hsa-miR-527	/5AmMC6/AGAAAGGGCTTCCCTTTGCA
EAM628	hsa-miR-99b	/5AmMC6/CGCAAGGTCGGTTCTACGGG

Supplementary Table 3. miRNA microarray data

ID	Name	nor-M11	nor-zy	nor-2c-E	nor-2c-L	nor-4c	nor-8c	nor-BI	
EAM153	hsa-let-7a	-4019	12699	226	3932	2056	604	4461	
EAM147	hsa-let-7b	-15603	3446	176	2753	791	-1090	1905	
EAM145	hsa-let-7c	-5319	-2068	1004	3195	-362	105	3860	
EAM179	hsa-let-7d	-3783	-2094	-1130	1303	-1107	-315	1943	
EAM168	hsa-let-7e	3546	-2253	176	256	-339	-394	38	
EAM181	hsa-let-7f	1300	-1511	-38	-194	271	-735	997	
EAM111	hsa-let-7g	-71631	-30938	-1481	-1117	-1492	-1865	665	
EAM183	hsa-let-7i	-7801	954	-477	2272	-904	-499	1265	
EAM238	hsa-miR-1	-113830	-67656	-1481	-1605	-1944	-2706	-460	
EAM238	hsa-miR-1	-8038	-1087	-213	-403	-1017	-473	230	
EAM184	hsa-miR-100	12411	20255	-75	551	-23	-2088	562	
EAM311	hsa-miR-101	-26714	-10737	-728	-582	-475	-3086	-115	
EAM185	hsa-miR-103	-11229	-2015	-941	-132	-2192	-118	831	
EAM312	hsa-miR-105	-13712	-22508	-1393	-760	-1853	-2272	1534	
EAM186	hsa-miR-106a	-5792	-2121	50	-807	23	-236	-256	
EAM313	hsa-miR-106b	-43262	-7715	1142	-240	-2147	499	1214	
EAM187	hsa-miR-107	1300	-2068	-138	-442	-181	-1734	192	
EAM189	hsa-miR-10a	5083	1644	502	-8	-113	-893	115	
EAM190	hsa-miR-10b	-14184	-3075	-828	-248	-1446	-263	230	
EAM191	hsa-miR-122a	-4137	-1060	-176	-613	226	-289	13	
EAM103	hsa-miR-124a	-11702	4348	-703	-155	-2282	-1221	-128	
EAM193	hsa-miR-125a	1064	-1962	163	465	181	-184	2403	
EAM105	hsa-miR-125b	11820	22269	3627	2001	407	801	3183	
EAM314	hsa-miR-126	-48463	-27253	-1406	-1109	-1921	-2955	-869	
EAM192	hsa-miR-126*	5910	-1220	25	31	0	-696	-153	
EAM315	hsa-miR-127	-34043	-16861	-1293	-853	-3503	-1051	-1176	
EAM194	hsa-miR-128a	-473	-848	-753	-838	-723	-105	-179	
EAM195	hsa-miR-128b	2246	-2121	-75	116	45	-2075	128	
EAM289	hsa-miR-129	4019	28685	-151	-209	-113	-341	77	
EAM159	hsa-miR-130a	-37707	11294	-527	-202	-68	-1103	1649	
EAM198	hsa-miR-130b	-946	901	-13	-147	-407	-381	409	
EAM137	hsa-miR-132	-43972	-3977	-1042	-543	339	-53	89	
EAM200	hsa-miR-133a	-7210	-1829	226	-365	158	-184	-26	
EAM402	hsa-miR-133b	-63239	-2863	-904	-985	158	-709	-230	
EAM202	hsa-miR-134	1773	5647	-778	-1388	-678	-683	-550	

EAM203	hsa-miR-135a	3783	-265	-38	-70	-90	-1261	-371
EAM342	hsa-miR-135b	-66548	-20334	-1481	-1466	-1379	-1839	-588
EAM155	hsa-miR-136	-6265	-2200	-1243	-16	316	-144	665
EAM171	hsa-miR-137	-16903	-2413	-527	-520	-542	-775	217
EAM205	hsa-miR-138	-5556	-769	-427	-527	-45	-368	-524
EAM206	hsa-miR-139	355	345	88	124	-158	-1103	-26
EAM207	hsa-miR-140	-4019	-504	-477	-745	-271	-552	-959
EAM208	hsa-miR-141	5201	-1166	326	93	-158	-1550	-192
EAM163	hsa-miR-142-3p	946	-3208	-138	2280	90	-1261	2122
EAM209	hsa-miR-142-5p	3428	-2863	-351	8	-68	-1366	358
EAM210	hsa-miR-143	-8747	-1723	50	434	-68	-644	-89
EAM211	hsa-miR-144	3310	-2200	75	132	45	-1077	-652
EAM212	hsa-miR-145	-2009	-1935	1632	1784	2169	1024	3234
EAM139	hsa-miR-146a	173995	186	10418	15170	15164	5096	29349
EAM500	hsa-miR-146b	54846	-901	4556	2528	6825	6764	11262
EAM316	hsa-miR-147	-11820	-5435	-803	-876	-1672	-2180	77
EAM214	hsa-miR-148a	6265	-2306	138	-23	0	-1327	-128
EAM215	hsa-miR-148b	-8629	-5885	-364	47	-429	-394	690
EAM216	hsa-miR-149	1537	530	-75	-318	45	-998	716
EAM217	hsa-miR-150	-12057	-4772	151	-209	68	-250	1202
EAM403	hsa-miR-151	-118	504	-226	93	-384	-236	-371
EAM218	hsa-miR-152	-709	371	-151	-427	294	-1734	-383
EAM219	hsa-miR-153	-11584	-3606	-377	-427	-1446	-578	192
EAM220	hsa-miR-154	4019	-2996	-238	-520	45	-1852	-179
EAM501	hsa-miR-154*	2837	-663	113	-520	-45	-1550	-575
EAM317	hsa-miR-155	-32270	-16755	-1067	-737	-2554	-2640	-1176
EAM222	hsa-miR-15a	-7329	-3685	490	6972	90	0	2582
EAM223	hsa-miR-15b	-9693	-2598	402	1280	-45	-328	1074
EAM115	hsa-miR-16	-46809	-5408	-100	9206	497	-709	3886
EAM318	hsa-miR-17-3p	-74468	-49841	-1105	-1233	-1582	-2325	805
EAM224	hsa-miR-17-5p	355	-1882	-38	-442	-249	-1786	179
EAM226	hsa-miR-181a	946	-1962	88	-326	271	-1169	460
EAM227	hsa-miR-181b	-10875	-4030	-916	-380	-1650	-131	499
EAM228	hsa-miR-181c	-1773	-4480	38	-574	23	-2101	562
EAM502	hsa-miR-181d	-26714	-12275	-866	-333	-791	-2075	-511
EAM229	hsa-miR-182	1537	-3393	-25	-70	-655	-276	409
EAM319	hsa-miR-182*	-47400	-20308	-1293	-791	-2011	-959	-1713

EAM230	hsa-miR-183	-2837	8324	126	264	68	-591	665
EAM290	hsa-miR-184	2600	4666	-25	47	-520	-315	294
EAM291	hsa-miR-185	-5437	6416	-640	209	-113	-302	128
EAM292	hsa-miR-186	80142	89051	29308	12006	40475	31665	9140
EAM231	hsa-miR-187	-5319	-3526	-50	-186	-633	-13	1611
EAM293	hsa-miR-188	-17730	-10101	-1004	-869	881	447	626
EAM320	hsa-miR-189	-24823	-12222	-703	-427	-2124	-1484	-281
EAM225	hsa-miR-18a	-11111	-3659	-1155	-481	-994	-250	77
EAM503	hsa-miR-18b	4019	-53	-276	-1574	-68	-1116	-1611
EAM295	hsa-miR-190	8392	9650	-88	47	-384	-1300	-192
EAM504	hsa-miR-191*	-39362	-21023	-866	-900	-1921	-814	-128
EAM232	hsa-miR-192	3901	-345	25	-194	-45	-1313	-205
EAM297	hsa-miR-193a	-33806	477	-1029	-124	-384	-854	192
EAM505	hsa-miR-193b	-58274	8696	-1619	-1373	-2373	-1024	-473
EAM298	hsa-miR-194	14657	15270	1230	776	1492	1576	2314
EAM299	hsa-miR-195	118	8775	201	682	-407	-565	1342
EAM233	hsa-miR-196a	-12884	-1644	-314	-318	-1153	-552	-230
EAM404	hsa-miR-196b	-53901	-17073	-1305	-1450	-1763	-1760	-511
EAM300	hsa-miR-197	3191	5859	1381	900	1446	1116	1623
EAM301	hsa-miR-198	-13475	-9305	-1004	-1024	-384	-26	-754
EAM234	hsa-miR-199a	2009	-1697	176	1900	610	-604	1381
EAM303	hsa-miR-199a*	33570	29321	176	1000	-836	-630	946
EAM235	hsa-miR-199b	-8156	10207	-1356	-496	-2328	-893	1278
EAM236	hsa-miR-19a	2128	-5753	-264	-349	0	-302	128
EAM237	hsa-miR-19b	118	-2041	-238	310	181	-1038	-141
EAM304	hsa-miR-200a	-3073	-2704	-741	-783	181	-131	-89
EAM506	hsa-miR-200a*	-52128	-19989	-841	-1303	-452	-2574	320
EAM321	hsa-miR-200b	-39125	-28632	-1531	-892	-2463	-814	77
EAM322	hsa-miR-200c	375414	109173	3012	5421	15412	6094	30385
EAM507	hsa-miR-202	-38061	-3606	-904	-1078	-520	-2193	435
EAM508	hsa-miR-202*	-21631	-7529	-1305	-558	-1627	-1221	-1099
EAM241	hsa-miR-203	-11702	-5488	-1004	-396	-1266	79	767
EAM242	hsa-miR-204	-709	-4136	-88	-458	203	118	230
EAM243	hsa-miR-205	-4492	-5302	1933	3133	4949	2101	4653
EAM308	hsa-miR-206	-17139	-5541	-326	-248	-768	-959	371
EAM310	hsa-miR-208	-14894	-9836	-1079	-791	-181	-2101	-153
EAM240	hsa-miR-20a	-12530	-2598	188	-233	-723	-578	575

EAM509	hsa-miR-20b	2009	-6628	-326	-1148	-565	-2154	-1815
EAM244	hsa-miR-21	1182	981	-50	1846	-68	-210	166
EAM245	hsa-miR-210	-1537	-2413	88	-240	-90	-105	767
EAM246	hsa-miR-211	25296	15880	3678	3816	10870	7355	8795
EAM247	hsa-miR-212	-4846	-1352	-615	-132	-814	460	703
EAM248	hsa-miR-213	-17021	-4799	113	-566	45	-302	-13
EAM249	hsa-miR-214	-9102	-1140	-715	845	-339	-105	2135
EAM250	hsa-miR-215	4255	-2280	1230	-388	226	-118	-243
EAM251	hsa-miR-216	-20804	18240	-954	-396	475	66	460
EAM252	hsa-miR-217	-8511	-5117	-816	-202	45	-184	856
EAM253	hsa-miR-218	-20213	-9544	-1494	-1094	-633	-1129	371
EAM254	hsa-miR-219	305437	88256	10016	5258	24429	5805	19980
EAM255	hsa-miR-22	-32979	-3738	-590	-194	-2079	-735	-920
EAM255	hsa-miR-22	2009	-212	-163	589	-249	-276	192
EAM256	hsa-miR-220	-12766	-1750	351	-318	316	-276	460
EAM257	hsa-miR-221	-14894	-7794	-1594	-147	316	158	1189
EAM258	hsa-miR-222	-59456	-16808	-1908	403	249	-105	-716
EAM259	hsa-miR-223	-8983	-6389	-1142	-427	1085	775	-205
EAM323	hsa-miR-224	12293	18823	-289	-147	23	-709	-294
EAM260	hsa-miR-23a	3783	848	201	2078	-226	79	588
EAM261	hsa-miR-23b	-8038	-2280	-25	302	90	-854	320
EAM262	hsa-miR-24	2600	981	13	2117	-316	92	703
EAM324	hsa-miR-25	54255	14077	-88	-171	45	158	690
EAM263	hsa-miR-26a	-17021	-3659	-213	-171	68	-827	0
EAM160	hsa-miR-26b	827	-3155	38	-124	-158	-538	179
EAM325	hsa-miR-27a	-43853	-26034	-1895	-271	-1243	-1510	-320
EAM264	hsa-miR-27b	1064	1617	-188	1427	23	591	524
EAM161	hsa-miR-28	-16312	-4162	-1167	78	-1718	-381	486
EAM326	hsa-miR-296	-73759	-33643	-791	-1031	113	-538	1751
EAM510	hsa-miR-299-3p	-29433	-7476	-992	-450	-1379	-1983	-511
EAM327	hsa-miR-299-5p	-58865	-37513	-2222	-1412	-1695	-1721	-550
EAM268	hsa-miR-29a	12648	8059	1130	4622	1718	762	2684
EAM119	hsa-miR-29b	5437	11214	464	1512	113	-289	1406
EAM279	hsa-miR-29c	-6028	1644	226	1861	-23	-341	933
EAM328	hsa-miR-301	-2955	398	-226	-566	-520	-525	166
EAM329	hsa-miR-302a	-71158	-34942	-2322	-1621	-2328	-2049	-575
EAM511	hsa-miR-302a*	6738	-9544	-25	-1605	-45	-1340	-1355

EAM405	hsa-miR-302b	3546	-5620	-201	-217	-271	-460	-1125
EAM406	hsa-miR-302b*	-19976	-424	-326	-434	-520	-341	-575
EAM407	hsa-miR-302c	3783	-6283	-100	-333	-588	-486	-1406
EAM408	hsa-miR-302c*	-72222	2121	-1280	-1481	-1446	-1235	-409
EAM409	hsa-miR-302d	5792	-7185	-301	-388	-136	-552	-1317
EAM280	hsa-miR-30a-3p	-10757	6098	-1255	-318	45	-1274	-409
EAM330	hsa-miR-30a-5p	-96336	-62725	-1218	-2257	113	-1983	677
EAM270	hsa-miR-30b	-43499	-39475	-1092	-682	-1559	-2023	-51
EAM270	hsa-miR-30b	591	2598	-176	-388	68	-1642	729
EAM271	hsa-miR-30c	4728	15032	-50	357	475	-735	256
EAM272	hsa-miR-30d	41135	16914	-176	-504	-226	-433	908
EAM512	hsa-miR-30e-3p	1537	-4268	50	109	-475	-2574	-690
EAM331	hsa-miR-30e-5p	-61466	-31098	-2071	-1272	-1695	-2456	-511
EAM332	hsa-miR-31	-100473	-40748	238	13751	1898	-1642	3541
EAM333	hsa-miR-32	-66194	-43134	-2523	-1598	-2418	-2285	-741
EAM175	hsa-miR-320	-7092	-1591	-1180	-341	-1944	-210	946
EAM358	hsa-miR-323	-13475	557	-602	-333	-90	-709	652
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EAM410	hsa-miR-325	-25887	-2041	-515	-760	-2282	-919	-205
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EAM362	hsa-miR-328	-4846	-2227	326	-54	1130	1011	665
EAM513	hsa-miR-329	9102	10339	12301	12362	13559	10914	7861
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EAM514	hsa-miR-330	1300	4295	-301	-1419	-384	-657	-1649
EAM365	hsa-miR-331	1655	-1617	63	-23	-90	-762	-26
EAM385	hsa-miR-335	-75768	-26935	3841	-70	-181	184	-1189
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EAM414	hsa-miR-346	-14066	12964	-766	-814	158	3270	524
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EAM335	hsa-miR-34b	4965	-6548	-100	-171	-339	118	-831
EAM336	hsa-miR-34c	-58983	-25186	-1883	-1466	-1333	-2784	-1611

EAM515	hsa-miR-361	631087	146633	194678	138561	283706	181298	260450
EAM516	hsa-miR-362	7565	4427	-1067	-1031	-1243	-341	-614
EAM517	hsa-miR-363	-21986	-26220	-1406	-884	-1107	-184	153
EAM518	hsa-miR-365	-67258	-48065	-1431	-659	23	-2443	1112
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EAM416	hsa-miR-368	4610	8908	477	582	362	92	1061
EAM417	hsa-miR-369-3p	4846	3155	-50	-1063	-158	-1904	-1265
EAM519	hsa-miR-369-5p	-92199	-89210	-904	-853	-497	-3388	1048
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EAM422	hsa-miR-373*	-43972	-27651	-427	-1148	203	-1931	1393
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EAM549	hsa-miR-451	3664	-716	-38	2094	90	-657	1508
EAM550	hsa-miR-452	-33806	-9173	-954	-442	-1559	-1235	-141
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EAM552	hsa-miR-453	-137352	-45944	-1694	-1179	-1876	-2298	345
EAM553	hsa-miR-485-3p	-54846	-16649	314	333	136	-341	2173
EAM554	hsa-miR-485-5p	-220449	-79427	-1694	-2792	-836	-3388	217
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EAM588	hsa-miR-517a	2128	4030	-2535	-1094	-2011	-499	-511
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EAM592	hsa-miR-518a-2*	3073	-2200	-188	-78	-452	-1340	-665
EAM593	hsa-miR-518b	3664	318	163	109	249	66	-13
EAM594	hsa-miR-518c	1064	3367	-954	-1404	-475	-1563	-1342
EAM595	hsa-miR-518c*	4374	371	-527	-543	-203	-1090	-511
EAM596	hsa-miR-518d	827	4507	-1356	-1536	-2192	-1353	-1393
EAM597	hsa-miR-518e	-76950	-26564	-2247	-2016	-3503	-3034	-1023
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EAM601	hsa-miR-519b	-76832	-19910	-2184	-2172	-3887	-2049	-805
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EAM603	hsa-miR-519d	-62293	1776	-1807	-1916	-3299	-2049	-575
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EAM614	hsa-miR-520g	-4137	9040	-1996	-1784	-2893	-998	-383
EAM615	hsa-miR-520h	-95390	-94115	-2146	-2288	-2667	-2600	332
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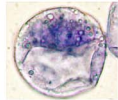
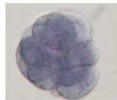
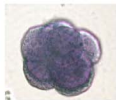
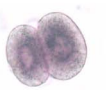
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EAM618	hsa-miR-523	1773	-43346	-703	-1559	-723	-2272	-1138
EAM619	hsa-miR-524	-79196	-61850	-2535	-1474	-2599	-1786	-396
EAM620	hsa-miR-524*	-24586	-14687	-2761	-1117	-2757	-1839	-230
EAM621	hsa-miR-525	-8274	-1140	-251	481	678	-66	2799
EAM622	hsa-miR-525*	-8274	-5064	-3289	-1652	-4068	-1904	-869
EAM623	hsa-miR-526a	-13239	-1617	-126	512	-475	-486	2314
EAM624	hsa-miR-526b	-23404	-19592	-1029	-737	-949	-2233	256
EAM625	hsa-miR-526b*	-55083	-48091	-954	-1962	-339	-3021	179
EAM626	hsa-miR-526c	-72577	-71925	-1368	-1016	-1062	-5004	473
EAM627	hsa-miR-527	-16548	822	-515	-783	-407	-670	4525
EAM109	hsa-miR-7	-5201	11161	-966	-233	-1220	-959	-741
EAM276	hsa-miR-9	-7920	26776	-690	-520	-1040	-1392	-460
EAM152	hsa-miR-9*	-10402	-4745	-477	-372	-1379	-841	-51
EAM131	hsa-miR-92	-22931	-2015	289	-349	-316	-381	115
EAM337	hsa-miR-93	7329	-954	-113	1365	-113	-683	460
EAM338	hsa-miR-95	-14184	5461	690	442	1175	-289	626
EAM277	hsa-miR-96	4492	5037	13	-489	-23	-565	358
EAM278	hsa-miR-98	-3901	25530	-879	-326	-45	-1090	-192
EAM121	hsa-miR-99a	40662	20467	427	752	972	341	1087
EAM628	hsa-miR-99b	-1655	1405	-226	1094	-429	-210	115

target mRNA	microRNA	approx. microarray signal detected		position of lowest energy target site in mRNA	minimum free energy (kCal/mol)	seed binding
		early 2 cell	late 2 cell	3'UTR		
Fgfr2	miR-31	-	1.4x10 ⁴	3135	-17.04	
	miR-211	3.7x10 ³	3.8x10 ³	3178	-16.16	
	miR-361	1.9x10 ⁵	1.4x10 ⁵	3246	-16.00	y
Gbx2	miR-31	-	1.4x10 ⁴	1966	-19.73	
	miR-24	-	2.1x10 ³	1988	-17.76	y
	let-7c	-	3.2x10 ³	1656	-17.14	
	let-7b	-	2.8x10 ³	1656	-17.14	
	miR-211	3.7x10 ³	3.8x10 ³	1821	-16.90	
	miR-31	-	1.4x10 ⁴	1953	-16.89	
	let-7a	-	3.9x10 ³	1657	-16.82	
	miR-205	-	3.1x10 ³	1499	-12.53	y
	miR-200c	3.0x10 ³	5.4x10 ³	1698	-9.39	y
	Lepr-2	miR-191	8.1x10 ⁵	5.0x10 ⁵	3362	-18.60
miR-146b		4.6x10 ³	2.5x10 ³	3305	-14.64	y
Mosg	miR-205	-	3.1x10 ³	756	-18.94	
	miR-211	3.7x10 ³	3.8x10 ³	756	-17.00	
	miR-24	-	2.1x10 ³	557	-16.79	y
	miR-31	-	1.4x10 ⁴	695	-16.43	
	miR-24	-	2.1x10 ³	564	-16.41	y
	miR-125b	3.6x10 ³	2.0x10 ³	757	-16.13	
	miR-31	-	1.4x10 ⁴	680	-14.26	y
	miR-451	-	2.1x10 ³	824	-13.54	y

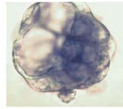
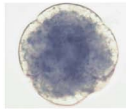
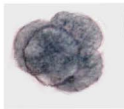
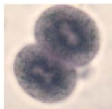
Supplementary Table 4. Possible candidate miRNAs which could target mRNAs from Fgfr2, Gbx2, Lepr-2 and Mosg at either early or late 2-cell stage. Minimum free energy for miRNA/mRNA duplexes found using the RNAfold program. Candidate miRNAs were those detected with a signal of at least 2000 arbitrary units (compared to an estimated noise level of ~1000) at either two cell stage. Seed binding is at least 7 Watson-Crick bonds in continuous stem loop starting at position 1 or 2 of miRNA.

2-cell stage embryo 4-8-cell stage embryo 16-cell stage embryo Blastocyst embryo

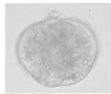
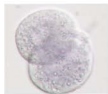
Antisense
Ago2



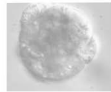
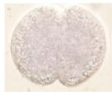
Antisense
Ago3

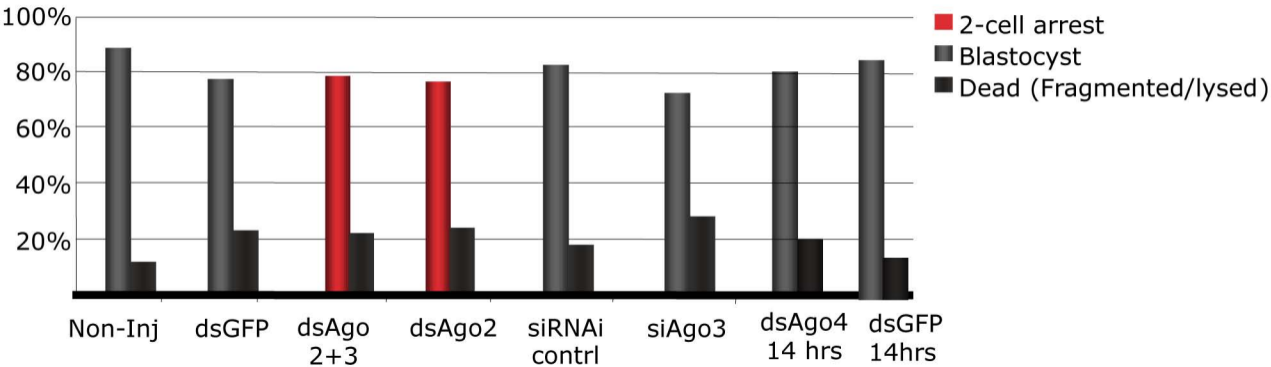


Sense
Ago2



Sense
Ago3





Control

RNAi Ago2



Mosg



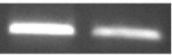
Gbx2



Ccne2



Ago2



Actin



Tubulin



Oct4

2-cell embryo