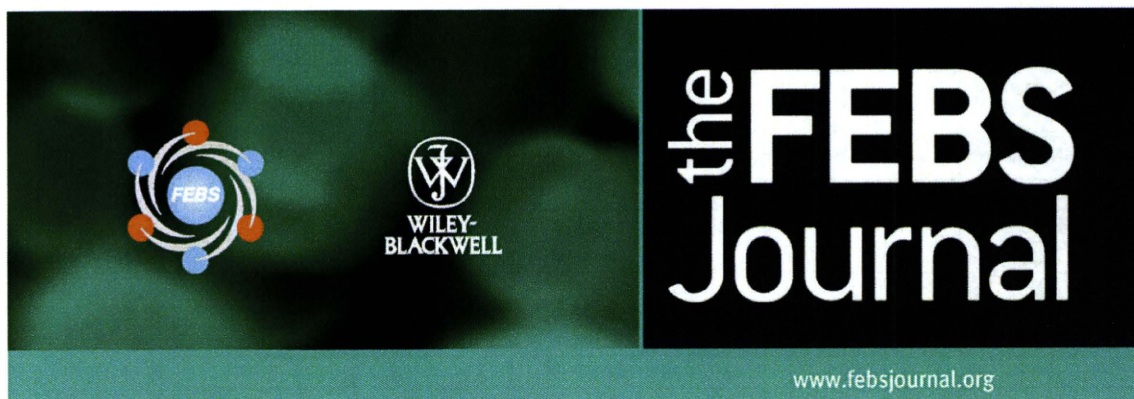


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### Supporting information

The following supplementary material is available: **Table S1.** miRNAs and overlapping transcripts. This supplementary material can be found in the online version of this article.

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## **MicroRNAs and epigenetics**

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Table S1. microRNAs and overlapping transcripts

Type, 1: not overlapped, 2: overlapped in the same direction, 3: overlapped in the opposite direction, and 4: overlapped in both directions. Gene symbols or accession numbers are listed. NA: not applicable.

microRNA name	strand	chromosome	start	end	type	Overlapped transcripts	
						same direction	opposite direction
hsa-mir-1302-2	+	1	30365	30503	1	NA	NA
hsa-mir-200b	+	1	1102483	1102578	1	NA	NA
hsa-mir-200a	+	1	1103242	1103332	1	NA	NA
hsa-mir-429	+	1	1104384	1104467	1	NA	NA
hsa-mir-4251	+	1	3044538	3044599	2	PRDM16	NA
hsa-mir-551a	-	1	3477258	3477354	2	MEGF6	NA
hsa-mir-4252	-	1	6489893	6489956	3	NA	ESPN
hsa-mir-34a	-	1	9211726	9211836	2	BC050642	NA
hsa-mir-1273d	+	1	10287775	10287861	2	KIF1B	NA
hsa-mir-1290	-	1	19223564	19223642	2	ALDH4A1	NA
hsa-mir-1256	-	1	21314806	21314925	2	EIF4G3	NA
hsa-mir-4253	-	1	23189651	23189719	3	NA	EPHB2
hsa-mir-3115	+	1	23370797	23370865	2	KDM1A	NA
hsa-mir-1976	+	1	26881032	26881084	2	RPS6KA1	NA
hsa-mir-4254	-	1	32224260	32224336	2	BAI2	NA
hsa-mir-552	-	1	35135199	35135295	1	NA	NA
hsa-mir-4255	+	1	37627163	37627235	1	NA	NA
hsa-mir-30e	+	1	41220026	41220118	2	NFYC	NA
hsa-mir-30c-1	+	1	41222955	41223044	2	NFYC	NA
hsa-mir-761	-	1	52302015	52302074	2	NRD1	NA
hsa-mir-3116-1	+	1	62544457	62544531	2	INADL	NA
hsa-mir-3116-2	-	1	62544460	62544528	3	NA	INADL
hsa-mir-101-1	-	1	65524116	65524191	1	NA	NA
hsa-mir-3117	+	1	67094122	67094200	2	SGIP1	NA
hsa-mir-1262	-	1	68649200	68649293	4	WLS	AK124028
hsa-mir-186	-	1	71533313	71533399	4	ZRANB2	CU691765
hsa-mir-760	+	1	94312387	94312467	3	NA	BC028477
hsa-mir-137	-	1	98511625	98511727	2	AK094607	NA
hsa-mir-553	+	1	100746796	100746864	2	RTCD1	NA
hsa-mir-197	+	1	110141514	110141589	3	NA	EF363096
hsa-mir-4256	-	1	113004391	113004455	3	NA	AL359565
hsa-mir-320b-1	+	1	117214370	117214449	1	NA	NA
hsa-mir-942	+	1	117637264	117637350	2	TTF2	NA
hsa-mir-3118-1	+	1	142667288	142667363	4	CR936796	AK090412
hsa-mir-3118-2	+	1	143163749	143163822	4	CR936796	AK001448
hsa-mir-3118-3	-	1	143424140	143424215	2	BC070106	NA
hsa-mir-4257	+	1	150524404	150524490	4	ADAMTSL4	BC038543
hsa-mir-554	+	1	151518271	151518367	2	TUFT1	NA
hsa-mir-190b	-	1	154166140	154166219	1	NA	NA
hsa-mir-4258	+	1	154948168	154948259	4	CKS1B	AY944073
hsa-mir-92b	+	1	155164967	155165063	4	AK289551	AY944073
hsa-mir-555	-	1	155316140	155316236	4	ASH1L	AK289551
hsa-mir-9-1	-	1	156390132	156390221	2	C1orf61	NA
hsa-mir-765	-	1	156905922	156906036	2	ARHGEF11	NA
hsa-mir-4259	-	1	159869768	159869869	2	CCDC19	NA
hsa-mir-556	+	1	162312335	162312430	2	NOS1AP	NA
hsa-mir-921	-	1	166123979	166124035	2	FAM78B	NA
hsa-mir-1255b-2	+	1	167967897	167967964	4	DCAF6	AK074378
hsa-mir-557	+	1	168344761	168344859	1	NA	NA
hsa-mir-3119-1	-	1	170120518	170120603	3	NA	METTL11B
hsa-mir-3119-2	+	1	170120518	170120603	2	METTL11B	NA
hsa-mir-1295	-	1	171070868	171070947	3	NA	FMO3
hsa-mir-214	-	1	172107937	172108047	3	NA	DNM3

hsa-mir-3120	+	1	172107947	172108028	2	DNM3	NA
hsa-mir-199a-2	-	1	172113674	172113784	3	NA	DNM3
hsa-mir-488	-	1	176998498	176998581	2	ASTN1	NA
hsa-mir-3121	-	1	180407448	180407525	2	ACBD6	NA
hsa-mir-1278	+	1	193105632	193105713	2	CDC73	NA
hsa-mir-181b-1	-	1	198828001	198828111	1	NA	NA
hsa-mir-181a-1	-	1	198828172	198828282	1	NA	NA
hsa-mir-1231	+	1	201777738	201777830	2	NAV1	NA
hsa-mir-135b	-	1	205417429	205417526	2	AK026628	NA
hsa-mir-29c	-	1	207975196	207975284	2	AK123264	NA
hsa-mir-29b-2	-	1	207975787	207975868	2	AK123264	NA
hsa-mir-205	+	1	209605477	209605587	2	LOC642587	NA
hsa-mir-4260	-	1	209796788	209796855	2	LAMB3	NA
hsa-mir-3122	+	1	212250954	212251027	2	DTL	NA
hsa-mir-215	-	1	220291194	220291304	3	NA	IARS2
hsa-mir-194-1	-	1	220291498	220291583	3	NA	IARS2
hsa-mir-664	-	1	220373879	220373961	2	RAB3GAP2	NA
hsa-mir-320b-2	-	1	224444705	224444843	2	NVL	NA
hsa-mir-1182	-	1	231155573	231155670	2	FAM89A	NA
hsa-mir-1537	-	1	236016299	236016360	2	LYST	NA
hsa-mir-3123	+	1	241295571	241295646	3	NA	RGS7
hsa-mir-3124	+	1	249120575	249120642	3	NA	AK125138
hsa-mir-4261	-	2	10332739	10332797	4	BC148588	C2orf48
hsa-mir-548s	+	2	11907569	11907651	2	LPIN1	NA
hsa-mir-4262	-	2	11977058	11977112	1	NA	NA
hsa-mir-3125	+	2	12877492	12877570	4	TRIB2	CU678083
hsa-mir-1301	-	2	25551508	25551590	2	DNMT3A	NA
hsa-mir-4263	+	2	28219233	28219316	2	BRE	NA
hsa-mir-558	+	2	32757219	32757313	2	BIRC6	NA
hsa-mir-559	+	2	47604813	47604909	2	EPCAM	NA
hsa-mir-217	-	2	56210101	56210211	3	NA	BC043355
hsa-mir-216a	-	2	56216084	56216194	3	NA	BC043355
hsa-mir-216b	-	2	56227848	56227930	3	NA	BC043355
hsa-mir-3126	+	2	69330813	69330887	4	ANTXR1	CU680201
hsa-mir-1285-2	-	2	70480049	70480137	1	NA	NA
hsa-mir-4264	-	2	79876419	79876485	3	NA	CTNNA2
hsa-mir-3127	+	2	97464014	97464090	2	CNNM4	NA
hsa-mir-4265	-	2	109757945	109758044	3	NA	SH3RF3
hsa-mir-4266	-	2	109930026	109930081	3	NA	SH3RF3
hsa-mir-4267	-	2	110827537	110827619	1	NA	NA
hsa-mir-1302-3	-	2	114340535	114340673	1	NA	NA
hsa-mir-663b	-	2	133014538	133014653	2	ANKRD30BL	NA
hsa-mir-128-1	+	2	136422966	136423048	2	R3HDM1	NA
hsa-mir-933	-	2	176032360	176032437	2	ATF2	NA
hsa-mir-10b	+	2	177015030	177015140	1	NA	NA
hsa-mir-1246	-	2	177465707	177465780	1	NA	NA
hsa-mir-3128	-	2	178120672	178120738	2	NFE2L2	NA
hsa-mir-1258	-	2	180725562	180725635	2	ZNF385B	NA
hsa-mir-561	+	2	189162218	189162315	2	GULP1	NA
hsa-mir-1245	+	2	189842817	189842887	2	COL3A1	NA
hsa-mir-3129	-	2	189997761	189997837	2	COL5A2	NA
hsa-mir-3130-1	-	2	207647957	207648032	3	NA	FASTKD2
hsa-mir-3130-2	+	2	207647957	207648032	2	FASTKD2	NA
hsa-mir-3130-3	-	2	207647959	207648030	3	NA	FASTKD2
hsa-mir-3130-4	+	2	207647959	207648030	2	FASTKD2	NA
hsa-mir-2355	-	2	207974710	207974797	2	KLF7	NA
hsa-mir-1302-4	-	2	208133998	208134148	1	NA	NA
hsa-mir-548f-2	-	2	213290986	213291084	2	ERBB4	NA

hsa-mir-26b	+	2	219267368	219267445	4	CTDSP1	BC016458
hsa-mir-375	-	2	219866366	219866430	1	NA	NA
hsa-mir-3131	-	2	219923409	219923472	2	IHH	NA
hsa-mir-153-1	-	2	220158832	220158922	4	PTPRN	CU675770
hsa-mir-3132	-	2	220413794	220413869	4	CU687343	TMEM198
hsa-mir-4268	-	2	220771222	220771286	1	NA	NA
hsa-mir-1244-1	+	2	232578023	232578108	4	PTMA	BC071732
hsa-mir-1471	-	2	232756951	232757008	1	NA	NA
hsa-mir-562	+	2	233037362	233037457	2	DIS3L2	NA
hsa-mir-4269	+	2	240227156	240227240	3	NA	HDAC4
hsa-mir-149	+	2	241395417	241395506	4	GPC1	PP14571
hsa-mir-3133	+	2	242417319	242417397	2	FARP2	NA
hsa-mir-378b	+	3	10371912	10371969	3	NA	ATP2B2
hsa-mir-885	-	3	10436172	10436246	2	ATP2B2	NA
hsa-mir-4270	-	3	15537745	15537815	2	COLQ	NA
hsa-mir-3134	-	3	15738804	15738878	2	ANKRD28	NA
hsa-mir-563	+	3	15915277	15915356	1	NA	NA
hsa-mir-3135	+	3	20179056	20179133	2	KAT2B	NA
hsa-mir-466	-	3	31203195	31203279	1	NA	NA
hsa-mir-128-2	+	3	35785967	35786051	2	ARPP21	NA
hsa-mir-26a-1	+	3	38010894	38010971	4	CTDSPL	CU678661
hsa-mir-138-1	+	3	44155703	44155802	1	NA	NA
hsa-mir-564	+	3	44903379	44903473	2	TMEM42	NA
hsa-mir-1226	+	3	47891044	47891119	4	DHX30	CU676940
hsa-mir-2115	-	3	48357849	48357949	2	SPINK8	NA
hsa-mir-711	-	3	48616334	48616410	2	COL7A1	NA
hsa-mir-425	-	3	49057580	49057667	4	DALRD3	HQ447336
hsa-mir-191	-	3	49058050	49058142	4	DALRD3	NDUFAF3
hsa-mir-4271	+	3	49311552	49311619	4	HQ447336	C3orf62
hsa-mir-566	+	3	50210758	50210852	2	SEMA3F	NA
hsa-let-7g	-	3	52302293	52302377	2	WDR82	NA
hsa-mir-135a-1	-	3	52328234	52328324	3	NA	GLYCTK
hsa-mir-4272	+	3	67275887	67275951	1	NA	NA
hsa-mir-3136	-	3	69098108	69098186	2	TMF1	NA
hsa-mir-1284	-	3	71591120	71591240	2	FOXP1	NA
hsa-mir-1324	+	3	75679913	75680009	1	NA	NA
hsa-mir-4273	+	3	75787430	75787514	3	NA	ZNF717
hsa-mir-567	+	3	111831647	111831745	2	C3orf52	NA
hsa-mir-568	-	3	114035321	114035416	2	BC035518	NA
hsa-mir-198	-	3	120114514	120114576	2	FSTL1	NA
hsa-mir-544b	+	3	124451285	124451363	2	UMPS	NA
hsa-mir-548i-1	-	3	125509246	125509395	1	NA	NA
hsa-mir-1280	+	3	128081007	128081101	2	EEFSEC	NA
hsa-mir-15b	+	3	160122375	160122473	4	SMC4	BC033011
hsa-mir-16-2	+	3	160122532	160122613	4	SMC4	BC033011
hsa-mir-1263	-	3	163889258	163889344	1	NA	NA
hsa-mir-720	+	3	164059128	164059238	1	NA	NA
hsa-mir-551b	+	3	168269641	168269737	2	EGFEM1P	NA
hsa-mir-569	-	3	170824452	170824548	2	TNIK	NA
hsa-mir-1224	+	3	183959192	183959277	2	VWA5B2	NA
hsa-mir-1248	+	3	186504460	186504566	4	EIF4A2	CU690551
hsa-mir-28	+	3	188406568	188406654	2	LPP	NA
hsa-mir-944	+	3	189547710	189547798	2	TP63	NA
hsa-mir-3137	-	3	194855234	194855309	2	C3orf21	NA
hsa-mir-570	+	3	195426271	195426368	4	AB098731	CU688621
hsa-mir-922	-	3	197401366	197401447	2	KIAA0226	NA
hsa-mir-571	+	4	343945	344041	4	ZNF141	BC036795
hsa-mir-943	-	4	1988110	1988204	4	WHSC2	BX647495

hsa-mir-4274	+	4	7461754	7461845	2	SORCS2	NA
hsa-mir-95	-	4	8007027	8007108	2	ABLIM2	NA
hsa-mir-548i-2	-	4	9557788	9557937	3	NA	U87596
hsa-mir-3138	-	4	10080234	10080316	4	WDR1	CU674087
hsa-mir-572	+	4	11370450	11370545	1	NA	NA
hsa-mir-218-1	+	4	20529897	20530007	2	SLIT2	NA
hsa-mir-573	-	4	24521814	24521913	1	NA	NA
hsa-mir-4275	+	4	28821203	28821290	1	NA	NA
hsa-mir-1255b-1	-	4	36427987	36428050	1	NA	NA
hsa-mir-574	+	4	38869652	38869748	2	FAM114A1	NA
hsa-mir-1269	+	4	67142541	67142646	1	NA	NA
hsa-mir-575	-	4	83674489	83674583	2	SCD5	NA
hsa-mir-1255a	-	4	102251458	102251571	2	PPP3CA	NA
hsa-mir-576	+	4	110409853	110409951	2	SEC24B	NA
hsa-mir-297	-	4	111781737	111781803	1	NA	NA
hsa-mir-367	-	4	113569029	113569097	3	NA	LARP7
hsa-mir-302d	-	4	113569159	113569227	3	NA	LARP7
hsa-mir-302a	-	4	113569338	113569407	3	NA	LARP7
hsa-mir-302c	-	4	113569518	113569586	3	NA	LARP7
hsa-mir-302b	-	4	113569640	113569713	3	NA	LARP7
hsa-mir-1243	+	4	114028018	114028111	2	ANK2	NA
hsa-mir-577	+	4	115577914	115578010	2	UGT8	NA
hsa-mir-1973	+	4	117220880	117220924	1	NA	NA
hsa-mir-2054	+	4	126428413	126428462	1	NA	NA
hsa-mir-3139	+	4	144264612	144264688	2	GAB1	NA
hsa-mir-548g	-	4	148265780	148265869	1	NA	NA
hsa-mir-3140	-	4	153410478	153410568	2	FBXW7	NA
hsa-mir-578	+	4	166307393	166307489	2	CPE	NA
hsa-mir-1979	-	4	166321813	166321889	3	NA	CPE
hsa-mir-548t	+	4	174189310	174189384	2	GALNT7	NA
hsa-mir-4276	+	4	175344945	175345015	1	NA	NA
hsa-mir-1305	+	4	183090445	183090531	2	AK308489	NA
hsa-mir-4277	-	5	1708899	1708983	1	NA	NA
hsa-mir-4278	-	5	6827965	6828034	1	NA	NA
hsa-mir-887	+	5	15935290	15935369	2	FBXL7	NA
hsa-mir-4279	-	5	31936207	31936265	3	NA	PDZD2
hsa-mir-579	-	5	32394483	32394581	2	ZFR	NA
hsa-mir-580	-	5	36147993	36148090	2	LMBRD2	NA
hsa-mir-1274a	+	5	41475733	41475804	3	NA	PLCXD3
hsa-mir-581	-	5	53247333	53247429	4	ARL15	AF130091
hsa-mir-449a	-	5	54466359	54466450	2	CDC20B	NA
hsa-mir-449b	-	5	54466473	54466570	2	CDC20B	NA
hsa-mir-449c	-	5	54468089	54468181	2	CDC20B	NA
hsa-mir-582	-	5	58999431	58999529	2	PDE4D	NA
hsa-mir-4280	-	5	86410695	86410771	1	NA	NA
hsa-mir-9-2	-	5	87962670	87962757	2	LOC645323	NA
hsa-mir-2277	-	5	92956401	92956494	2	FAM172A	NA
hsa-mir-583	+	5	95414841	95414916	1	NA	NA
hsa-mir-548p	-	5	100152185	100152269	2	ST8SIA4	NA
hsa-mir-548f-3	-	5	109849529	109849616	4	TMEM232	HQ448268
hsa-mir-1244-2	+	5	118310280	118310365	4	CR594918	DTWD2
hsa-mir-1289-2	-	5	132763287	132763398	2	FSTL4	NA
hsa-mir-886	-	5	135416176	135416297	2	VTRNA2	NA
hsa-mir-874	-	5	136983260	136983338	2	KLHL3	NA
hsa-mir-584	-	5	148441875	148441972	2	SH3TC2	NA
hsa-mir-143	+	5	148808480	148808586	2	LOC728264	NA
hsa-mir-145	+	5	148810208	148810296	2	LOC728264	NA
hsa-mir-378	+	5	149112387	149112453	2	PPARGC1B	NA

hsa-mir-1294	+	5	153726665	153726807	2	GALNT10	NA
hsa-mir-3141	-	5	153975571	153975632	1	NA	NA
hsa-mir-1303	+	5	154065335	154065421	1	NA	NA
hsa-mir-3142	+	5	159901408	159901490	1	NA	NA
hsa-mir-146a	+	5	159912358	159912457	2	AL389942	NA
hsa-mir-103-1	-	5	167987900	167987978	2	PANK3	NA
hsa-mir-103-1-as	+	5	167987908	167987970	3	NA	PANK3
hsa-mir-218-2	-	5	168195150	168195260	2	SLIT3	NA
hsa-mir-585	-	5	168690604	168690698	2	SLIT3	NA
hsa-mir-1271	+	5	175794948	175795034	2	ARL10	NA
hsa-mir-4281	-	5	176056439	176056501	2	SNCB	NA
hsa-mir-1229	-	5	179225277	179225346	2	MGAT4B	NA
hsa-mir-340	-	5	179442302	179442397	2	RNF130	NA
hsa-mir-548a-1	+	6	18572014	18572111	2	HQ448042	NA
hsa-mir-3143	+	6	27115404	27115467	1	NA	NA
hsa-mir-877	+	6	30552108	30552194	2	ABCF1	NA
hsa-mir-1236	-	6	31924615	31924717	2	RDBP	NA
hsa-mir-219-1	+	6	33175611	33175721	1	NA	NA
hsa-mir-1275	-	6	33967748	33967828	1	NA	NA
hsa-mir-586	-	6	45165410	45165507	2	SUPT3H	NA
hsa-mir-206	+	6	52009146	52009232	1	NA	NA
hsa-mir-133b	+	6	52013720	52013839	1	NA	NA
hsa-mir-548u	+	6	57254929	57255010	2	PRIM2	NA
hsa-mir-30c-2	-	6	72086662	72086734	3	NA	BC110999
hsa-mir-30a	-	6	72113253	72113324	3	NA	BC110999
hsa-mir-4282	-	6	73677409	73677476	3	NA	KCNQ5
hsa-mir-2113	+	6	98472406	98472497	1	NA	NA
hsa-mir-587	+	6	107231999	107232095	3	NA	LOC100422737
hsa-mir-548b	-	6	119390211	119390308	4	FAM184A	HQ447977
hsa-mir-3144	+	6	120336324	120336403	1	NA	NA
hsa-mir-588	+	6	126805776	126805859	3	NA	AK127472
hsa-mir-548a-2	+	6	135560297	135560394	1	NA	NA
hsa-mir-3145	-	6	138756349	138756431	2	NHSL1	NA
hsa-mir-1273c	+	6	155174493	155174570	2	AB095936	NA
hsa-mir-1202	+	6	156267930	156268013	1	NA	NA
hsa-mir-1913	-	6	166922841	166922921	2	RPS6KA2	NA
hsa-mir-339	-	7	1062568	1062662	2	C7orf50	NA
hsa-mir-589	-	7	5535449	5535548	4	FBXL18	AY927477
hsa-mir-1302-6	-	7	18166842	18166932	3	NA	AK304298
hsa-mir-3146	-	7	19744980	19745059	2	TWISTNB	NA
hsa-mir-1183	+	7	21510675	21510764	2	SP4	NA
hsa-mir-148a	-	7	25989538	25989606	1	NA	NA
hsa-mir-196b	-	7	27209098	27209182	2	DQ655931	NA
hsa-mir-550-1	+	7	30329409	30329506	2	ZNRF2	NA
hsa-mir-550-2	+	7	32772592	32772689	4	BC027724	CU693289
hsa-mir-548n	-	7	34980371	34980446	2	DPY19L1	NA
hsa-mir-1200	-	7	36958961	36959037	2	ELMO1	NA
hsa-mir-4283-1	-	7	57023491	57023571	1	NA	NA
hsa-mir-3147	+	7	57472730	57472796	1	NA	NA
hsa-mir-4283-2	+	7	63081467	63081547	1	NA	NA
hsa-mir-4284	+	7	73125646	73125727	3	NA	STX1A
hsa-mir-590	+	7	73605527	73605624	4	EIF4H	M87338
hsa-mir-1285-1	-	7	91833328	91833412	2	KRIT1	NA
hsa-mir-653	-	7	93112071	93112167	2	CALCR	NA
hsa-mir-489	-	7	93113247	93113331	2	CALCR	NA
hsa-mir-591	-	7	95848973	95849068	2	SLC25A13	NA
hsa-mir-25	-	7	99691182	99691266	4	MCM7	BC011660
hsa-mir-93	-	7	99691390	99691470	4	MCM7	BC011660

hsa-mir-106b	-	7	99691615	99691697	4	MCM7	BC011660
hsa-mir-4285	+	7	101936368	101936453	4	SH2B2	AK096084
hsa-mir-548o	-	7	102046188	102046302	4	AK096084	PRKRIP1
hsa-mir-592	-	7	126698141	126698238	2	GRM8	NA
hsa-mir-593	+	7	127721912	127722012	2	SND1	NA
hsa-mir-129-1	+	7	127847924	127847996	1	NA	NA
hsa-mir-182	-	7	129410222	129410332	1	NA	NA
hsa-mir-96	-	7	129414531	129414609	1	NA	NA
hsa-mir-183	-	7	129414744	129414854	1	NA	NA
hsa-mir-335	+	7	130135951	130136045	4	MEST	AK055108
hsa-mir-29a	-	7	130561505	130561569	3	NA	CR618431
hsa-mir-29b-1	-	7	130562217	130562298	3	NA	CR618431
hsa-mir-490	+	7	136587913	136588041	4	CHRM2	AF279773
hsa-mir-548f-4	-	7	147075108	147075213	3	NA	CNTNAP2
hsa-mir-1975	+	7	148638579	148638654	1	NA	NA
hsa-mir-671	+	7	150935506	150935624	2	CHPF2	NA
hsa-mir-153-2	-	7	157367027	157367114	2	PTPRN2	NA
hsa-mir-595	-	7	158325409	158325505	2	PTPRN2	NA
hsa-mir-596	+	8	1765396	1765473	2	AF123758	NA
hsa-mir-548i-3	-	8	7946462	7946611	1	NA	NA
hsa-mir-597	+	8	9599181	9599278	2	TNKS	NA
hsa-mir-124-1	-	8	9760897	9760982	1	NA	NA
hsa-mir-4286	+	8	10524487	10524580	3	NA	AK127545
hsa-mir-1322	-	8	10682882	10682953	2	PINX1	NA
hsa-mir-598	-	8	10892715	10892812	2	XKR6	NA
hsa-mir-383	-	8	14710946	14711019	2	SGCZ	NA
hsa-mir-548v	-	8	17539086	17539166	2	MTUS1	NA
hsa-mir-320a	-	8	22102474	22102556	1	NA	NA
hsa-mir-548h-4	-	8	26906369	26906480	1	NA	NA
hsa-mir-4287	-	8	27743555	27743633	2	SCARA5	NA
hsa-mir-4288	-	8	28362632	28362699	3	NA	FZD3
hsa-mir-3148	-	8	29814787	29814864	1	NA	NA
hsa-mir-486	-	8	41517958	41518026	2	ANK1	NA
hsa-mir-124-2	+	8	65291705	65291814	2	AK124256	NA
hsa-mir-2052	+	8	75617927	75617982	2	FLJ39080	NA
hsa-mir-3149	-	8	77879003	77879086	2	AK025763	NA
hsa-mir-3150	+	8	96085141	96085221	4	AK301414	AK093190
hsa-mir-599	-	8	100548863	100548958	3	NA	VPS13B
hsa-mir-875	-	8	100549013	100549089	3	NA	VPS13B
hsa-mir-1273	-	8	101036209	101036312	2	RGS22	NA
hsa-mir-3151	+	8	104166841	104166917	2	BAALC	NA
hsa-mir-548a-3	-	8	105496596	105496693	1	NA	NA
hsa-mir-2053	+	8	113655721	113655812	3	NA	CSMD3
hsa-mir-548d-1	-	8	124360273	124360370	4	ATAD2	HQ448315
hsa-mir-1204	+	8	128808207	128808274	2	PVT1	NA
hsa-mir-1205	+	8	128972878	128972941	2	PVT1	NA
hsa-mir-1206	+	8	129021143	129021202	2	PVT1	NA
hsa-mir-1207	+	8	129061397	129061484	2	PVT1	NA
hsa-mir-1208	+	8	129162361	129162434	1	NA	NA
hsa-mir-30b	-	8	135812762	135812850	1	NA	NA
hsa-mir-30d	-	8	135817118	135817188	1	NA	NA
hsa-mir-151	-	8	141742662	141742752	2	PTK2	NA
hsa-mir-1302-7	-	8	142867602	142867674	1	NA	NA
hsa-mir-937	-	8	144895126	144895212	2	SCRIB	NA
hsa-mir-661	-	8	145019358	145019447	4	PLEC	AL834492
hsa-mir-939	-	8	145619363	145619445	4	CPSF1	CU677872
hsa-mir-1234	-	8	145625475	145625559	2	CPSF1	NA
hsa-mir-1302-9	+	9	30143	30281	1	NA	NA



hsa-mir-101-2	+	9	4850296	4850375	2	RCL1	NA
hsa-mir-3152	+	9	18573303	18573377	2	ADAMTSL1	NA
hsa-mir-491	+	9	20716103	20716187	2	KIAA1797	NA
hsa-mir-31	-	9	21512113	21512184	2	LOC554202	NA
hsa-mir-876	-	9	28863623	28863704	1	NA	NA
hsa-mir-873	-	9	28888876	28888953	1	NA	NA
hsa-mir-1299	-	9	69002238	69002321	1	NA	NA
hsa-mir-204	-	9	73424890	73425000	2	TRPM3	NA
hsa-mir-7-1	-	9	86584662	86584772	4	HNRNPK	CU674175
hsa-mir-4289	-	9	91360750	91360820	1	NA	NA
hsa-mir-3153	+	9	91927139	91927221	4	CKS2	BC020345
hsa-mir-4290	-	9	92785722	92785817	2	BC039331	NA
hsa-mir-4291	+	9	96581638	96581703	1	NA	NA
hsa-let-7a-1	+	9	96938238	96938318	1	NA	NA
hsa-let-7f-1	+	9	96938628	96938715	1	NA	NA
hsa-let-7d	+	9	96941115	96941202	3	NA	BC045813
hsa-mir-2278	+	9	97572243	97572339	2	C9orf3	NA
hsa-mir-23b	+	9	97847489	97847586	2	C9orf3	NA
hsa-mir-27b	+	9	97847726	97847823	2	C9orf3	NA
hsa-mir-3074	-	9	97848295	97848376	3	NA	C9orf3
hsa-mir-24-1	+	9	97848302	97848370	2	C9orf3	NA
hsa-mir-1302-8	-	9	100125835	100125963	3	NA	LOC57653
hsa-mir-32	-	9	111808508	111808578	2	C9orf5	NA
hsa-mir-455	+	9	116971713	116971809	2	COL27A1	NA
hsa-mir-147	-	9	123007256	123007328	1	NA	NA
hsa-mir-600	-	9	125873824	125873922	2	NCRNA00287	NA
hsa-mir-601	-	9	126164803	126164882	4	DENND1A	BC113037
hsa-mir-181a-2	+	9	127454720	127454830	3	NA	NR6A1
hsa-mir-181b-2	+	9	127455988	127456077	3	NA	NR6A1
hsa-mir-2861	+	9	130548196	130548286	1	NA	NA
hsa-mir-199b	-	9	131006999	131007109	3	NA	DNM1
hsa-mir-3154	-	9	131007225	131007309	3	NA	DNM1
hsa-mir-219-2	-	9	131154896	131154993	1	NA	NA
hsa-mir-126	+	9	139565053	139565138	4	EGFL7	BC114447
hsa-mir-4292	+	9	139725408	139725475	4	C9orf86	BC032104
hsa-mir-602	+	9	140732870	140732968	2	AB058779	NA
hsa-mir-3155	+	10	6194158	6194240	4	PFKFB3	HQ447657
hsa-mir-548q	-	10	12767252	12767352	4	CU690185	CAMK1D
hsa-mir-4293	-	10	14425198	14425276	2	BC018891	NA
hsa-mir-1265	+	10	14478574	14478660	3	NA	BC018891
hsa-mir-511-1	+	10	17887106	17887193	2	MRC1	NA
hsa-mir-511-2	+	10	18134035	18134122	2	MRC1	NA
hsa-mir-1915	-	10	21785490	21785570	2	C10orf114	NA
hsa-mir-603	+	10	24564613	24564710	2	KIAA1217	NA
hsa-mir-604	-	10	29833932	29834026	2	SVIL	NA
hsa-mir-938	-	10	29891192	29891275	2	SVIL	NA
hsa-mir-3156-1	+	10	45659461	45659536	2	LOC338579	NA
hsa-mir-4294	-	10	50193556	50193632	1	NA	NA
hsa-mir-605	+	10	53059332	53059415	2	PRKG1	NA
hsa-mir-548f-1	-	10	56367633	56367717	4	PCDH15	BC040305
hsa-mir-1296	-	10	65132716	65132808	2	JMJD1C	NA
hsa-mir-1254	+	10	70519074	70519171	2	CCAR1	NA
hsa-mir-606	+	10	77312215	77312311	1	NA	NA
hsa-mir-346	-	10	88024450	88024545	2	GRID1	NA
hsa-mir-107	-	10	91352503	91352584	4	PANK1	CU693201
hsa-mir-3157	-	10	97824071	97824156	2	AK091396	NA
hsa-mir-607	-	10	98588425	98588521	1	NA	NA
hsa-mir-1287	-	10	100154974	100155064	2	PYROXD2	NA

hsa-mir-608	+	10	102734741	102734841	2	SEMA4G	NA
hsa-mir-3158-2	-	10	103361173	103361254	3	NA	DPCD
hsa-mir-3158-1	+	10	103361173	103361254	2	DPCD	NA
hsa-mir-146b	+	10	104196268	104196341	1	NA	NA
hsa-mir-1307	-	10	105154009	105154158	2	USMG5	NA
hsa-mir-936	-	10	105807846	105807944	2	COL17A1	NA
hsa-mir-609	-	10	105978546	105978641	2	WDR96	NA
hsa-mir-548e	+	10	112748683	112748771	2	SHOC2	NA
hsa-mir-4295	+	10	114393928	114394013	2	VTI1A	NA
hsa-mir-2110	-	10	115933863	115933938	2	C10orf118	NA
hsa-mir-4296	-	10	126721351	126721439	2	CTBP2	NA
hsa-mir-4297	-	10	131641562	131641638	2	EBF3	NA
hsa-mir-378c	-	10	132760850	132760931	1	NA	NA
hsa-mir-202	-	10	135061014	135061124	1	NA	NA
hsa-mir-210	-	11	568088	568198	2	AK123483	NA
hsa-mir-4298	-	11	1880693	1880766	3	NA	LSP1
hsa-mir-675	-	11	2017988	2018061	4	H19	BC004532
hsa-mir-483	-	11	2155363	2155439	4	INS-IGF2	AK074614
hsa-mir-302e	+	11	7255996	7256068	1	NA	NA
hsa-mir-4299	-	11	11678197	11678269	1	NA	NA
hsa-mir-3159	+	11	18409333	18409407	1	NA	NA
hsa-mir-610	+	11	28078361	28078457	3	NA	KIF18A
hsa-mir-670	+	11	43581205	43581303	1	NA	NA
hsa-mir-129-2	+	11	43602943	43603033	1	NA	NA
hsa-mir-3160-1	-	11	46473354	46473439	2	AMBRA1	NA
hsa-mir-3160-2	+	11	46473356	46473437	3	NA	AMBRA1
hsa-mir-3161	+	11	48118333	48118410	2	PTPRJ	NA
hsa-mir-130a	+	11	57408670	57408759	2	AK096335	NA
hsa-mir-3162	-	11	59362549	59362631	2	OSBP	NA
hsa-mir-611	-	11	61559966	61560033	2	C11orf10	NA
hsa-mir-1908	-	11	61582632	61582712	2	FADS1	NA
hsa-mir-1237	+	11	64136073	64136175	4	RPS6KA4	CU690527
hsa-mir-192	-	11	64658608	64658718	2	CU688890	NA
hsa-mir-194-2	-	11	64658826	64658911	2	CU688890	NA
hsa-mir-612	+	11	65211928	65212028	2	GQ859162	NA
hsa-mir-3163	-	11	66701904	66701977	2	PC	NA
hsa-mir-3164	+	11	68850643	68850726	2	TPCN2	NA
hsa-mir-548k	+	11	70130060	70130176	2	PPF1A1	NA
hsa-mir-3165	-	11	71783273	71783348	2	NUMA1	NA
hsa-mir-139	-	11	72326106	72326174	2	PDE2A	NA
hsa-mir-326	-	11	75046135	75046230	2	ARRB1	NA
hsa-mir-708	-	11	79113065	79113153	2	ODZ4	NA
hsa-mir-4300	-	11	81601782	81601878	2	BC041900	NA
hsa-mir-3166	+	11	87909669	87909761	1	NA	NA
hsa-mir-1261	-	11	90602288	90602370	1	NA	NA
hsa-mir-1304	-	11	93466839	93466930	2	AK027016	NA
hsa-mir-548l	-	11	94199660	94199746	2	MRE11A	NA
hsa-mir-1260b	+	11	96074601	96074690	3	NA	MAML2
hsa-mir-34b	+	11	111383662	111383746	2	BC021736	NA
hsa-mir-34c	+	11	111384163	111384240	2	BC021736	NA
hsa-mir-4301	-	11	113320744	113320810	4	DRD2	AM233521
hsa-mir-125b-1	-	11	121970464	121970552	2	LOC399959	NA
hsa-let-7a-2	-	11	122017229	122017301	2	LOC399959	NA
hsa-mir-100	-	11	122022936	122023016	2	LOC399959	NA
hsa-mir-3167	-	11	126858353	126858438	2	KIRREL3	NA
hsa-mir-200c	+	12	7072861	7072929	1	NA	NA
hsa-mir-141	+	12	7073259	7073354	1	NA	NA
hsa-mir-1244-3	-	12	9392062	9392147	1	NA	NA

hsa-mir-613	+	12	12917582	12917677	2	APOLD1	NA
hsa-mir-614	+	12	13068762	13068852	2	BC042436	NA
hsa-mir-920	+	12	24365354	24365429	3	NA	SOX5
hsa-mir-4302	-	12	26026952	26027012	1	NA	NA
hsa-mir-1291	-	12	49048226	49048313	4	C12orf41	AF336879
hsa-mir-1293	-	12	50627924	50627995	4	LIMA1	BC127805
hsa-mir-196a-2	+	12	54385521	54385631	1	NA	NA
hsa-mir-615	+	12	54427733	54427829	2	HOXC4	NA
hsa-mir-148b	+	12	54730999	54731098	2	COPZ1	NA
hsa-mir-1228	+	12	57588286	57588359	2	LRP1	NA
hsa-mir-616	-	12	57912945	57913042	2	DDIT3	NA
hsa-mir-26a-2	-	12	58218391	58218475	4	CTDSP2	CU688101
hsa-let-7i	+	12	62997465	62997549	1	NA	NA
hsa-mir-548c	+	12	65016288	65016385	2	RASSF3	NA
hsa-mir-1279	-	12	69666936	69666998	3	NA	CPSF6
hsa-mir-1252	+	12	79813036	79813101	2	SYT1	NA
hsa-mir-617	-	12	81226311	81226408	2	LIN7A	NA
hsa-mir-618	-	12	81329514	81329612	2	LIN7A	NA
hsa-mir-492	+	12	95228173	95228289	2	KRT19P2	NA
hsa-mir-331	+	12	95702195	95702289	1	NA	NA
hsa-mir-1251	+	12	97885686	97885756	2	RMST	NA
hsa-mir-135a-2	+	12	97957589	97957689	2	AF429306	NA
hsa-mir-4303	-	12	98389160	98389226	1	NA	NA
hsa-mir-1827	+	12	100583661	100583727	1	NA	NA
hsa-mir-619	-	12	109230683	109230782	2	SSH1	NA
hsa-mir-1302-1	-	12	113132838	113132981	3	NA	AK295696
hsa-mir-620	-	12	116586364	116586459	2	MED13L	NA
hsa-mir-1178	-	12	120151438	120151529	2	CIT	NA
hsa-mir-4304	-	12	123495213	123495275	2	PITPNM2	NA
hsa-mir-2276	+	13	24736554	24736643	2	SPATA13	NA
hsa-mir-4305	-	13	40238170	40238272	3	NA	COG6
hsa-mir-320d-1	-	13	41301963	41302011	1	NA	NA
hsa-mir-621	+	13	41384901	41384997	4	SLC25A15	SUGT1P3
hsa-mir-3168	-	13	41675154	41675236	1	NA	NA
hsa-mir-16-1	-	13	50623108	50623197	2	DLEU2	NA
hsa-mir-15a	-	13	50623254	50623337	2	DLEU2	NA
hsa-mir-759	+	13	53384184	53384275	1	NA	NA
hsa-mir-1297	-	13	54886106	54886183	1	NA	NA
hsa-mir-3169	-	13	61773931	61774014	1	NA	NA
hsa-mir-622	+	13	90883435	90883531	1	NA	NA
hsa-mir-17	+	13	92002858	92002942	2	AB176707	NA
hsa-mir-18a	+	13	92003004	92003075	2	AB176707	NA
hsa-mir-19a	+	13	92003144	92003226	2	AB176707	NA
hsa-mir-20a	+	13	92003318	92003389	2	AB176707	NA
hsa-mir-19b-1	+	13	92003445	92003532	2	AB176707	NA
hsa-mir-92a-1	+	13	92003567	92003645	2	AB176707	NA
hsa-mir-3170	+	13	98860777	98860854	2	FARP1	NA
hsa-mir-623	+	13	100008384	100008482	2	UBAC2	NA
hsa-mir-4306	+	13	100295312	100295403	2	CLYBL	NA
hsa-mir-1267	-	13	108183518	108183596	2	FAM155A	NA
hsa-mir-1201	-	14	20794605	20794690	4	CCNB1IP1	BC020999
hsa-mir-208a	-	14	23857804	23857875	4	MYH6	HQ447612
hsa-mir-208b	-	14	23887195	23887272	4	MYH7	HQ447612
hsa-mir-4307	+	14	27377847	27377931	1	NA	NA
hsa-mir-3171	-	14	28102410	28102484	4	BC148262	BX538140
hsa-mir-624	-	14	31483851	31483948	2	STRN3	NA
hsa-mir-3172	+	14	32954300	32954379	2	AKAP6	NA
hsa-mir-4308	-	14	55344830	55344911	2	GCH1	NA

hsa-mir-548h-1	-	14	64561741	64561843	4	AF060555	SYNE2
hsa-mir-625	+	14	65937819	65937904	2	FUT8	NA
hsa-mir-1260	+	14	77732560	77732633	3	NA	NGB
hsa-mir-3173	-	14	95604255	95604323	2	DICER1	NA
hsa-mir-342	+	14	100575991	100576090	2	EVL	NA
hsa-mir-345	+	14	100774195	100774293	1	NA	NA
hsa-mir-770	+	14	101318726	101318824	2	MEG3	NA
hsa-mir-493	+	14	101335396	101335485	1	NA	NA
hsa-mir-337	+	14	101340829	101340922	1	NA	NA
hsa-mir-665	+	14	101341369	101341441	1	NA	NA
hsa-mir-431	+	14	101347343	101347457	3	NA	RTL1
hsa-mir-433	+	14	101348222	101348315	3	NA	RTL1
hsa-mir-127	+	14	101349315	101349412	3	NA	RTL1
hsa-mir-432	+	14	101350819	101350913	3	NA	RTL1
hsa-mir-136	+	14	101351038	101351120	3	NA	RTL1
hsa-mir-370	+	14	101377475	101377550	1	NA	NA
hsa-mir-379	+	14	101488402	101488469	2	AK021542	NA
hsa-mir-411	+	14	101489661	101489757	2	AK021542	NA
hsa-mir-299	+	14	101490130	101490193	2	AK021542	NA
hsa-mir-380	+	14	101491353	101491414	2	AK021542	NA
hsa-mir-1197	+	14	101491900	101491988	2	AK021542	NA
hsa-mir-323	+	14	101492068	101492154	2	AK021542	NA
hsa-mir-758	+	14	101492356	101492444	2	AK021542	NA
hsa-mir-329-1	+	14	101493121	101493201	2	AK021542	NA
hsa-mir-329-2	+	14	101493436	101493520	2	AK021542	NA
hsa-mir-494	+	14	101495970	101496051	1	NA	NA
hsa-mir-1193	+	14	101496388	101496466	1	NA	NA
hsa-mir-543	+	14	101498323	101498401	1	NA	NA
hsa-mir-495	+	14	101500091	101500173	1	NA	NA
hsa-mir-376c	+	14	101506026	101506092	1	NA	NA
hsa-mir-376a-2	+	14	101506405	101506485	1	NA	NA
hsa-mir-654	+	14	101506555	101506636	1	NA	NA
hsa-mir-376b	+	14	101506772	101506872	1	NA	NA
hsa-mir-376a-1	+	14	101507118	101507186	1	NA	NA
hsa-mir-300	+	14	101507699	101507782	1	NA	NA
hsa-mir-1185-1	+	14	101509313	101509399	1	NA	NA
hsa-mir-1185-2	+	14	101510534	101510620	1	NA	NA
hsa-mir-381	+	14	101512256	101512331	1	NA	NA
hsa-mir-487b	+	14	101512791	101512875	1	NA	NA
hsa-mir-539	+	14	101513657	101513735	1	NA	NA
hsa-mir-889	+	14	101514237	101514316	1	NA	NA
hsa-mir-544	+	14	101514994	101515085	1	NA	NA
hsa-mir-655	+	14	101515886	101515983	1	NA	NA
hsa-mir-487a	+	14	101518782	101518862	1	NA	NA
hsa-mir-382	+	14	101520642	101520718	1	NA	NA
hsa-mir-134	+	14	101521023	101521096	1	NA	NA
hsa-mir-668	+	14	101521594	101521660	1	NA	NA
hsa-mir-485	+	14	101521755	101521828	1	NA	NA
hsa-mir-323b	+	14	101522555	101522637	1	NA	NA
hsa-mir-154	+	14	101526091	101526175	1	NA	NA
hsa-mir-496	+	14	101526909	101527011	1	NA	NA
hsa-mir-377	+	14	101528386	101528455	1	NA	NA
hsa-mir-541	+	14	101530831	101530915	1	NA	NA
hsa-mir-409	+	14	101531636	101531715	1	NA	NA
hsa-mir-412	+	14	101531783	101531874	1	NA	NA
hsa-mir-369	+	14	101531934	101532004	1	NA	NA
hsa-mir-410	+	14	101532248	101532328	1	NA	NA
hsa-mir-656	+	14	101533060	101533138	1	NA	NA

hsa-mir-1247	-	14	102026623	102026759	2	AF469206	NA
hsa-mir-4309	+	14	103005980	103006063	1	NA	NA
hsa-mir-203	+	14	104583741	104583851	1	NA	NA
hsa-mir-3118-4	+	15	21038123	21038198	1	NA	NA
hsa-mir-3118-6	+	15	22049273	22049348	2	AK027771	NA
hsa-mir-1268	-	15	22513228	22513280	1	NA	NA
hsa-mir-211	-	15	31357234	31357344	2	TRPM1	NA
hsa-mir-1233-1	-	15	34674269	34674351	2	GOLGA8A	NA
hsa-mir-1233-2	-	15	34820490	34820572	2	GOLGA8B	NA
hsa-mir-626	+	15	41983782	41983876	2	MGA	NA
hsa-mir-4310	-	15	42158692	42158749	4	SPTBN5	BC172355
hsa-mir-627	-	15	42491767	42491864	2	VPS39	NA
hsa-mir-1282	-	15	44085856	44085957	4	AK093233	SERF2
hsa-mir-147b	+	15	45725247	45725327	2	C15orf48	NA
hsa-mir-1266	-	15	52569313	52569397	2	MYO5C	NA
hsa-mir-628	-	15	55665137	55665232	2	CCPG1	NA
hsa-mir-2116	-	15	59463381	59463461	2	MYO1E	NA
hsa-mir-190	+	15	63116155	63116240	2	TLN2	NA
hsa-mir-422a	-	15	64163128	64163218	1	NA	NA
hsa-mir-1272	-	15	65054585	65054714	2	RBPM5	NA
hsa-mir-4311	+	15	66332570	66332670	3	NA	MEGF11
hsa-mir-4312	-	15	69094188	69094264	2	ANP32A	NA
hsa-mir-629	-	15	70371710	70371807	2	TLE3	NA
hsa-mir-630	+	15	72879557	72879654	1	NA	NA
hsa-mir-631	-	15	75645951	75646026	4	CU679834	NEIL1
hsa-mir-4313	-	15	76054555	76054656	2	BC039101	NA
hsa-mir-184	+	15	79502129	79502213	1	NA	NA
hsa-mir-549	-	15	81134318	81134414	3	NA	KIAA1199
hsa-mir-1276	-	15	86313726	86313809	2	KLHL25	NA
hsa-mir-1179	+	15	89151337	89151428	1	NA	NA
hsa-mir-7-2	+	15	89155055	89155165	1	NA	NA
hsa-mir-9-3	+	15	89911247	89911337	2	CR618217	NA
hsa-mir-3174	+	15	90549986	90550073	2	ZNF710	NA
hsa-mir-3175	+	15	93447628	93447705	2	CHD2	NA
hsa-mir-1469	+	15	96876489	96876536	2	NR2F2	NA
hsa-mir-1302-10	-	15	102500661	102500799	1	NA	NA
hsa-mir-3176	+	16	593276	593366	2	SOLH	NA
hsa-mir-662	+	16	820182	820277	3	NA	MSLNL
hsa-mir-3177	+	16	1784985	1785067	2	MAPK8IP3	NA
hsa-mir-1225	-	16	2140195	2140285	2	PKD1	NA
hsa-mir-940	+	16	2321747	2321841	1	NA	NA
hsa-mir-3178	-	16	2581922	2582006	1	NA	NA
hsa-mir-548h-2	-	16	11400296	11400384	3	NA	BC039361
hsa-mir-193b	+	16	14397823	14397906	1	NA	NA
hsa-mir-365-1	+	16	14403141	14403228	1	NA	NA
hsa-mir-3179-1	+	16	14995364	14995448	2	BC008178	NA
hsa-mir-3180-1	+	16	15005076	15005170	4	BC008178	BC043290
hsa-mir-1972-1	-	16	15104177	15104254	3	NA	PDXDC1
hsa-mir-484	+	16	15737150	15737229	2	NDE1	NA
hsa-mir-3179-2	+	16	16394015	16394099	1	NA	NA
hsa-mir-3180-2	+	16	16403735	16403823	3	NA	BC043290
hsa-mir-3180-3	-	16	18496034	18496128	3	NA	BC043290
hsa-mir-3179-3	-	16	18505750	18505834	1	NA	NA
hsa-mir-548w	+	16	26036557	26036631	2	HS3ST4	NA
hsa-mir-762	+	16	30905223	30905306	4	BC073928	BCL7C
hsa-mir-1826	+	16	33965507	33965592	1	NA	NA
hsa-mir-3181	+	16	50776215	50776288	2	CYLD	NA
hsa-mir-138-2	+	16	56892429	56892513	1	NA	NA

hsa-mir-328	-	16	67236223	67236298	3	NA	ELMO3
hsa-mir-1538	-	16	69599710	69599771	3	NA	NFAT5
hsa-mir-140	+	16	69966983	69967083	2	WWP2	NA
hsa-mir-1972-2	+	16	70064248	70064325	4	AJ001982	PDXDC2P
hsa-mir-3182	+	16	83541950	83542013	2	CDH13	NA
hsa-mir-1910	-	16	85775226	85775306	2	G16orf74	NA
hsa-mir-3183	-	17	925715	925799	4	ABR	BC129815
hsa-mir-22	-	17	1617196	1617281	2	C17orf91	NA
hsa-mir-132	-	17	1953201	1953302	1	NA	NA
hsa-mir-212	-	17	1953564	1953674	1	NA	NA
hsa-mir-1253	-	17	2651371	2651476	1	NA	NA
hsa-mir-195	-	17	6920933	6921020	2	AK098506	NA
hsa-mir-497	-	17	6921229	6921341	2	AK098506	NA
hsa-mir-324	-	17	7126615	7126698	3	NA	ACADVL
hsa-mir-4314	+	17	7991373	7991465	1	NA	NA
hsa-mir-744	+	17	11985215	11985313	2	MAP2K4	NA
hsa-mir-548h-3	-	17	13446845	13446963	4	HS3ST3A1	BC082963
hsa-mir-1288	+	17	16185327	16185402	4	PIGL	CU686622
hsa-mir-33b	-	17	17717149	17717245	4	SREBF1	CU691205
hsa-mir-1180	-	17	19247818	19247887	2	B9D1	NA
hsa-mir-451	-	17	27188386	27188458	3	NA	AK312123
hsa-mir-144	-	17	27188550	27188636	3	NA	AK312123
hsa-mir-423	+	17	28444096	28444190	2	CCDC55	NA
hsa-mir-3184	-	17	28444103	28444178	3	NA	CCDC55
hsa-mir-193a	+	17	29887014	29887102	1	NA	NA
hsa-mir-365-2	+	17	29902429	29902540	1	NA	NA
hsa-mir-632	+	17	30677127	30677221	2	ZNF207	NA
hsa-mir-2909	+	17	35391041	35391110	4	AATF	CU674287
hsa-mir-2117	+	17	41522173	41522253	1	NA	NA
hsa-mir-4315-1	-	17	43552728	43552801	2	PLEKHM1	NA
hsa-mir-152	-	17	46114526	46114613	2	COP22	NA
hsa-mir-1203	-	17	46233788	46233873	4	SKAP1	CU690517
hsa-mir-10a	-	17	46657199	46657309	2	AK316245	NA
hsa-mir-196a-1	-	17	46709851	46709921	1	NA	NA
hsa-mir-3185	-	17	46801769	46801837	3	NA	NCRNA00253
hsa-mir-142	-	17	56408592	56408679	4	AX721088	AK090885
hsa-mir-454	-	17	57215118	57215233	2	SKA2	NA
hsa-mir-301a	-	17	57228496	57228582	2	SKA2	NA
hsa-mir-21	+	17	57918626	57918698	2	BC053563	NA
hsa-mir-633	+	17	61021575	61021673	1	NA	NA
hsa-mir-4315-2	-	17	62818147	62818220	4	PLEKHM1P	BC016458
hsa-mir-634	+	17	64783189	64783286	2	PRKCA	NA
hsa-mir-548d-2	-	17	65467604	65467701	3	NA	PITPNC1
hsa-mir-635	-	17	66420591	66420689	4	WIPI1	CU691787
hsa-mir-636	-	17	74732531	74732630	4	SRSF2	CU688225
hsa-mir-4316	-	17	75393065	75393136	3	NA	SEP9
hsa-mir-657	-	17	79099075	79099173	2	AATK	NA
hsa-mir-3065	+	17	79099676	79099755	3	NA	AATK
hsa-mir-338	-	17	79099682	79099749	2	AATK	NA
hsa-mir-1250	-	17	79106995	79107108	2	AATK	NA
hsa-mir-3186	-	17	79418129	79418214	3	NA	BAHCC1
hsa-mir-4317	-	18	6374359	6374424	2	L3MBTL4	NA
hsa-mir-3156-2	+	18	14830164	14830241	2	ANKRD30B	NA
hsa-mir-320c-1	+	18	19263470	19263558	4	CU676867	ABHD3
hsa-mir-133a-1	-	18	19405658	19405746	4	AK123912	MIB1
hsa-mir-1-2	-	18	19408964	19409049	4	BX648566	MIB1
hsa-mir-320c-2	+	18	21901649	21901699	3	NA	OSBPL1A
hsa-mir-302f	+	18	27878875	27878926	1	NA	NA

hsa-mir-187	-	18	33484780	33484889	1	NA	NA
hsa-mir-4318	+	18	35237097	35237178	1	NA	NA
hsa-mir-924	-	18	37202086	37202139	2	LOC647946	NA
hsa-mir-4319	-	18	42550046	42550131	3	NA	SETBP1
hsa-mir-1539	+	18	47013742	47013792	3	NA	RPL17- C18ORF32
hsa-mir-4320	-	18	47652868	47652933	2	MYO5B	NA
hsa-mir-122	+	18	56118305	56118390	1	NA	NA
hsa-mir-1302-1f	+	19	71972	72110	1	NA	NA
hsa-mir-3187	+	19	813583	813653	3	NA	LPPR3
hsa-mir-1909	-	19	1816157	1816237	2	REXO1	NA
hsa-mir-1227	-	19	2234060	2234148	4	PLEKHJ1	CU679204
hsa-mir-4321	+	19	2250637	2250717	4	AMH	CU677941
hsa-mir-637	-	19	3961411	3961510	2	DAPK3	NA
hsa-mir-7-3	+	19	4770681	4770791	2	C19orf30	NA
hsa-mir-220b	+	19	6495958	6496045	3	NA	TUBB4
hsa-mir-4322	+	19	10341088	10341161	4	DQ890615	S1PR2
hsa-mir-1181	-	19	10514133	10514214	2	CDC37	NA
hsa-mir-1238	+	19	10662797	10662880	4	ATG4D	CU686690
hsa-mir-638	+	19	10829079	10829179	2	DNM2	NA
hsa-mir-199a-1	-	19	10928101	10928172	3	NA	DNM2
hsa-mir-24-2	-	19	13947100	13947173	2	LOC284454	NA
hsa-mir-27a	-	19	13947253	13947331	1	NA	NA
hsa-mir-23a	-	19	13947400	13947473	1	NA	NA
hsa-mir-181c	+	19	13985512	13985622	1	NA	NA
hsa-mir-181d	+	19	13985688	13985825	1	NA	NA
hsa-mir-639	+	19	14640354	14640452	2	TECR	NA
hsa-mir-1470	+	19	15560358	15560419	3	NA	WIZ
hsa-mir-3188	+	19	18392886	18392971	3	NA	BX648739
hsa-mir-3189	+	19	18497371	18497444	4	GDF15	BX648739
hsa-mir-640	+	19	19545871	19545967	2	GATAD2A	NA
hsa-mir-1270-1	-	19	20510080	20510163	2	BC011194	NA
hsa-mir-1270-2	-	19	20579239	20579322	2	ZNF826P	NA
hsa-mir-641	-	19	40788449	40788548	2	AKT2	NA
hsa-mir-4323	-	19	42637596	42637665	4	M36542	BC015776
hsa-mir-330	-	19	46142251	46142345	2	EML2	NA
hsa-mir-642	+	19	46178185	46178282	2	GIPR	NA
hsa-mir-769	+	19	46522189	46522307	1	NA	NA
hsa-mir-320e	-	19	47212549	47212602	4	PRKD2	BX538265
hsa-mir-3190	+	19	47730198	47730278	3	NA	BBC3
hsa-mir-3191	-	19	47730200	47730276	2	BBC3	NA
hsa-mir-220c	-	19	49063528	49063611	3	NA	SULT2B1
hsa-mir-4324	-	19	49812053	49812125	2	SLC6A16	NA
hsa-mir-150	-	19	50004041	50004125	3	NA	AK130324
hsa-mir-99b	+	19	52195864	52195934	3	NA	AK125996
hsa-let-7e	+	19	52196038	52196117	3	NA	AK125996
hsa-mir-125a	+	19	52196506	52196592	4	NCRNA00085	AK125996
hsa-mir-643	+	19	52785049	52785146	2	ZNF766	NA
hsa-mir-512-1	+	19	54169932	54170016	1	NA	NA
hsa-mir-512-2	+	19	54172410	54172508	1	NA	NA
hsa-mir-1323	+	19	54175221	54175294	1	NA	NA
hsa-mir-498	+	19	54177450	54177574	1	NA	NA
hsa-mir-520e	+	19	54178964	54179051	1	NA	NA
hsa-mir-515-1	+	19	54182256	54182339	1	NA	NA
hsa-mir-519e	+	19	54183193	54183277	1	NA	NA
hsa-mir-520f	+	19	54185412	54185499	1	NA	NA
hsa-mir-515-2	+	19	54188262	54188345	1	NA	NA
hsa-mir-519c	+	19	54189722	54189809	1	NA	NA
hsa-mir-1283-1	+	19	54191734	54191821	1	NA	NA

hsa-mir-520a	+	19	54194134	54194219	1	NA	NA
hsa-mir-526b	+	19	54197646	54197729	1	NA	NA
hsa-mir-519b	+	19	54198466	54198547	1	NA	NA
hsa-mir-525	+	19	54200786	54200871	1	NA	NA
hsa-mir-523	+	19	54201638	54201725	1	NA	NA
hsa-mir-518f	+	19	54203268	54203355	1	NA	NA
hsa-mir-520b	+	19	54204480	54204541	1	NA	NA
hsa-mir-518b	+	19	54205990	54206073	1	NA	NA
hsa-mir-526a-1	+	19	54209505	54209590	1	NA	NA
hsa-mir-520c	+	19	54210706	54210793	1	NA	NA
hsa-mir-518c	+	19	54211988	54212089	1	NA	NA
hsa-mir-524	+	19	54214255	54214342	1	NA	NA
hsa-mir-517a	+	19	54215521	54215608	1	NA	NA
hsa-mir-519d	+	19	54216600	54216688	1	NA	NA
hsa-mir-521-2	+	19	54219847	54219934	1	NA	NA
hsa-mir-520d	+	19	54223349	54223436	1	NA	NA
hsa-mir-517b	+	19	54224329	54224396	1	NA	NA
hsa-mir-520g	+	19	54225419	54225509	1	NA	NA
hsa-mir-516b-2	+	19	54228695	54228780	1	NA	NA
hsa-mir-526a-2	+	19	54230175	54230240	1	NA	NA
hsa-mir-518e	+	19	54233091	54233179	1	NA	NA
hsa-mir-518a-1	+	19	54234259	54234344	1	NA	NA
hsa-mir-518d	+	19	54238130	54238217	1	NA	NA
hsa-mir-516b-1	+	19	54240098	54240188	1	NA	NA
hsa-mir-518a-2	+	19	54242586	54242673	1	NA	NA
hsa-mir-517c	+	19	54244566	54244661	1	NA	NA
hsa-mir-520h	+	19	54245765	54245853	1	NA	NA
hsa-mir-521-1	+	19	54251889	54251976	1	NA	NA
hsa-mir-522	+	19	54254464	54254551	1	NA	NA
hsa-mir-519a-1	+	19	54255650	54255735	1	NA	NA
hsa-mir-527	+	19	54257271	54257356	1	NA	NA
hsa-mir-516a-1	+	19	54259994	54260084	1	NA	NA
hsa-mir-1283-2	+	19	54261485	54261572	1	NA	NA
hsa-mir-516a-2	+	19	54264386	54264476	1	NA	NA
hsa-mir-519a-2	+	19	54265597	54265684	2	AK127814	NA
hsa-mir-371	+	19	54290928	54290995	1	NA	NA
hsa-mir-372	+	19	54291143	54291210	1	NA	NA
hsa-mir-373	+	19	54291958	54292027	1	NA	NA
hsa-mir-935	+	19	54485560	54485651	2	CACNG8	NA
hsa-mir-1274b	-	19	58024374	58024441	4	AX721143	AX721128
hsa-mir-1292	+	20	2633422	2633488	4	NOP56	AK021907
hsa-mir-103-2	+	20	3898140	3898218	2	PANK2	NA
hsa-mir-103-2-as	-	20	3898148	3898210	3	NA	PANK2
hsa-mir-3192	+	20	18451258	18451335	2	POLR3F	NA
hsa-mir-663	-	20	26188821	26188914	2	BC036201	NA
hsa-mir-3193	+	20	30194988	30195043	1	NA	NA
hsa-mir-1825	+	20	30825597	30825650	2	POFUT1	NA
hsa-mir-644	+	20	33054129	33054223	2	ITCH	NA
hsa-mir-499	+	20	33578178	33578300	4	MYH7B	AK098707
hsa-mir-1289-1	-	20	34041775	34041919	2	BC032495	NA
hsa-mir-1259	+	20	47896846	47896957	4	NCRNA00275	BC070487
hsa-mir-645	+	20	49202322	49202416	1	NA	NA
hsa-mir-1302-5	-	20	49231172	49231322	4	FAM65C	BC131485
hsa-mir-3194	-	20	50069441	50069514	2	NFATC2	NA
hsa-mir-4325	-	20	55896557	55896647	1	NA	NA
hsa-mir-296	-	20	57392669	57392749	1	NA	NA
hsa-mir-298	-	20	57393280	57393368	1	NA	NA
hsa-mir-646	+	20	58883531	58883625	2	AK309218	NA



hsa-mir-1257	-	20	60528601	60528718	1	NA	NA
hsa-mir-3195	+	20	60639857	60639941	3	NA	TAF4
hsa-mir-1-1	+	20	61151512	61151583	2	C20orf166	NA
hsa-mir-133a-2	+	20	61162118	61162220	2	C20orf166	NA
hsa-mir-124-3	+	20	61809851	61809938	1	NA	NA
hsa-mir-3196	+	20	61870130	61870194	2	BIRC7	NA
hsa-mir-4326	+	20	61918159	61918218	4	ARFGAP1	CU674401
hsa-mir-941-1	+	20	62550793	62550882	2	DNAJC5	NA
hsa-mir-941-2	+	20	62551100	62551189	2	DNAJC5	NA
hsa-mir-941-3	+	20	62551212	62551301	2	DNAJC5	NA
hsa-mir-1914	-	20	62572817	62572897	2	UCKL1	NA
hsa-mir-647	-	20	62573983	62574079	4	UCKL1	AK128082
hsa-mir-3156-3	-	21	14778704	14778781	1	NA	NA
hsa-mir-3118-5	-	21	15017095	15017171	1	NA	NA
hsa-mir-99a	+	21	17911408	17911489	2	C21orf34	NA
hsa-let-7c	+	21	17912147	17912231	2	C21orf34	NA
hsa-mir-125b-2	+	21	17962556	17962645	2	C21orf34	NA
hsa-mir-548x	-	21	20058407	20058482	2	BC028044	NA
hsa-mir-155	+	21	26946291	26946356	2	AF402776	NA
hsa-mir-4327	-	21	31747611	31747696	1	NA	NA
hsa-mir-802	+	21	37093012	37093106	3	NA	AK123035
hsa-mir-3197	+	21	42539483	42539556	1	NA	NA
hsa-mir-3198	-	22	18246945	18247025	2	BID	NA
hsa-mir-648	-	22	18463633	18463727	2	MICAL3	NA
hsa-mir-185	+	22	20020661	20020743	2	C22orf25	NA
hsa-mir-1306	+	22	20073580	20073665	2	DGCR8	NA
hsa-mir-1286	-	22	20236656	20236734	2	RTN4R	NA
hsa-mir-649	-	22	21388464	21388561	1	NA	NA
hsa-mir-301b	+	22	22007269	22007347	1	NA	NA
hsa-mir-130b	+	22	22007592	22007674	1	NA	NA
hsa-mir-650	+	22	23165269	23165365	4	BC089413	CU689067
hsa-mir-548j	-	22	26951177	26951289	2	TPST2	NA
hsa-mir-3199-1	-	22	28316512	28316600	3	NA	TTC28-AS1
hsa-mir-3199-2	+	22	28316513	28316599	2	TTC28-AS1	NA
hsa-mir-3200	+	22	31127543	31127628	2	OSBP2	NA
hsa-mir-658	-	22	38240278	38240378	4	ANKRD54	BC008287
hsa-mir-659	-	22	38243684	38243781	3	NA	BC008287
hsa-mir-1281	+	22	41488516	41488570	2	U01877	NA
hsa-mir-33a	+	22	42296947	42297016	2	SREBF2	NA
hsa-mir-1249	-	22	45596834	45596900	4	C22orf9	CU690999
hsa-let-7a-3	+	22	46508628	46508702	2	LOC400931	NA
hsa-let-7b	+	22	46509565	46509648	2	LOC400931	NA
hsa-mir-3201	+	22	48670175	48670227	1	NA	NA
hsa-mir-651	+	X	8095005	8095102	1	NA	NA
hsa-mir-1308	-	X	22080258	22080312	3	NA	PHEX
hsa-mir-548f-5	-	X	32659590	32659676	2	DMD	NA
hsa-mir-221	-	X	45605584	45605694	1	NA	NA
hsa-mir-222	-	X	45606420	45606530	1	NA	NA
hsa-mir-532	+	X	49767753	49767844	2	CLCN5	NA
hsa-mir-188	+	X	49768108	49768194	2	CLCN5	NA
hsa-mir-500	+	X	49773038	49773122	2	CLCN5	NA
hsa-mir-362	+	X	49773571	49773636	2	CLCN5	NA
hsa-mir-501	+	X	49774329	49774413	2	CLCN5	NA
hsa-mir-500b	+	X	49775279	49775358	2	CLCN5	NA
hsa-mir-660	+	X	49777848	49777945	2	CLCN5	NA
hsa-mir-502	+	X	49779205	49779291	2	CLCN5	NA
hsa-mir-98	-	X	53583183	53583302	2	HUWE1	NA
hsa-let-7f-2	-	X	53584152	53584235	2	HUWE1	NA

hsa-mir-1468	-	X	63005881	63005967	1	NA	NA
hsa-mir-223	+	X	65238711	65238821	2	DQ680071	NA
hsa-mir-421	-	X	73438211	73438296	2	NCRNA00182	NA
hsa-mir-374b	-	X	73438381	73438453	2	NCRNA00182	NA
hsa-mir-545	-	X	73506938	73507044	2	NCRNA00182	NA
hsa-mir-374a	-	X	73507120	73507192	2	NCRNA00182	NA
hsa-mir-384	-	X	76139697	76139785	2	AK057746	NA
hsa-mir-325	-	X	76225828	76225926	2	AK057746	NA
hsa-mir-4328	-	X	78156690	78156746	1	NA	NA
hsa-mir-548i-4	-	X	83480759	83480836	1	NA	NA
hsa-mir-1321	+	X	85090784	85090863	1	NA	NA
hsa-mir-361	-	X	85158640	85158712	2	CHM	NA
hsa-mir-548m	-	X	94318139	94318225	1	NA	NA
hsa-mir-652	+	X	109298556	109298654	2	TMEM164	NA
hsa-mir-4329	-	X	112023945	112024016	2	AMOT	NA
hsa-mir-764	+	X	113873917	113874002	2	HTR2C	NA
hsa-mir-1912	+	X	113886018	113886098	2	HTR2C	NA
hsa-mir-1264	+	X	113887129	113887198	2	HTR2C	NA
hsa-mir-1298	+	X	113949649	113949761	2	HTR2C	NA
hsa-mir-1911	+	X	113997743	113997823	2	HTR2C	NA
hsa-mir-448	+	X	114058016	114058127	2	HTR2C	NA
hsa-mir-1277	+	X	117520356	117520434	2	WDR44	NA
hsa-mir-766	-	X	118780700	118780811	4	6-Sep	CU690319
hsa-mir-220a	-	X	122695945	122696055	1	NA	NA
hsa-mir-363	-	X	133303407	133303482	1	NA	NA
hsa-mir-92a-2	-	X	133303567	133303642	1	NA	NA
hsa-mir-19b-2	-	X	133303700	133303796	1	NA	NA
hsa-mir-20b	-	X	133303838	133303907	1	NA	NA
hsa-mir-18b	-	X	133304070	133304141	1	NA	NA
hsa-mir-106a	-	X	133304227	133304308	1	NA	NA
hsa-mir-450b	-	X	133674214	133674292	1	NA	NA
hsa-mir-450a-1	-	X	133674370	133674461	1	NA	NA
hsa-mir-450a-2	-	X	133674537	133674637	1	NA	NA
hsa-mir-542	-	X	133675370	133675467	1	NA	NA
hsa-mir-503	-	X	133680357	133680428	2	MGC16121	NA
hsa-mir-424	-	X	133680643	133680741	2	MGC16121	NA
hsa-mir-934	+	X	135633036	135633119	2	VGLL1	NA
hsa-mir-504	-	X	137749871	137749954	2	FGF13	NA
hsa-mir-505	-	X	139006306	139006390	1	NA	NA
hsa-mir-320d-2	-	X	140008336	140008384	1	NA	NA
hsa-mir-890	-	X	145075792	145075869	3	NA	D16476
hsa-mir-888	-	X	145076301	145076378	3	NA	D16476
hsa-mir-892a	-	X	145078186	145078261	3	NA	D16476
hsa-mir-892b	-	X	145078715	145078792	3	NA	D16476
hsa-mir-891b	-	X	145082570	145082649	3	NA	D16476
hsa-mir-891a	-	X	145109311	145109390	1	NA	NA
hsa-mir-513c	-	X	146271221	146271305	1	NA	NA
hsa-mir-513b	-	X	146280561	146280645	1	NA	NA
hsa-mir-513a-1	-	X	146294980	146295109	1	NA	NA
hsa-mir-513a-2	-	X	146307343	146307470	1	NA	NA
hsa-mir-506	-	X	146312237	146312361	1	NA	NA
hsa-mir-507	-	X	146312501	146312595	1	NA	NA
hsa-mir-508	-	X	146318430	146318545	1	NA	NA
hsa-mir-514b	-	X	146331668	146331748	1	NA	NA
hsa-mir-509-2	-	X	146340277	146340368	1	NA	NA
hsa-mir-509-3	-	X	146341169	146341244	1	NA	NA
hsa-mir-509-1	-	X	146342049	146342143	1	NA	NA
hsa-mir-510	-	X	146353852	146353926	1	NA	NA

hsa-mir-514-1	-	X	146360764	146360862	1	NA	NA
hsa-mir-514-2	-	X	146363460	146363548	1	NA	NA
hsa-mir-514-3	-	X	146366158	146366246	1	NA	NA
hsa-mir-2114	+	X	149396238	149396318	1	NA	NA
hsa-mir-4330	+	X	150336693	150336798	1	NA	NA
hsa-mir-224	-	X	151127049	151127130	4	GABRE	CU691357
hsa-mir-452	-	X	151128099	151128184	4	GABRE	CU691357
hsa-mir-105-1	-	X	151560690	151560771	2	GABRA3	NA
hsa-mir-767	-	X	151561892	151562001	2	GABRA3	NA
hsa-mir-105-2	-	X	151562883	151562964	2	GABRA3	NA
hsa-mir-3202-1	+	X	153246547	153246628	2	TMEM187	NA
hsa-mir-3202-2	-	X	153246548	153246627	3	NA	TMEM187
hsa-mir-718	-	X	153285370	153285440	1	NA	NA
hsa-mir-1184-1	-	X	154115634	154115733	4	F8	F8A1
hsa-mir-1184-2	-	X	154612748	154612847	3	NA	F8A1
hsa-mir-1184-3	+	X	154687177	154687276	3	NA	F8A1

