

Supplemental Table 1: A list of pre-miRNA host genes

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pre-miRNA ID	MI ID	pre-miRNA location (hg18)	Host gene	Host gene location (hg18)	Entrez ID	Direction
mir-553	MI0003558	chr1:100519385-100519452(+)	RTCD1	chr1:100504351-100529915(+)	8634	same
mir-942	MI0005767	chr1:117438788-117438873(+)	TTF2	chr1:117404472-117447015(+)	8458	same
mir-554	MI0003559	chr1:149784896-149784991(+)	TUFT1	chr1:149779405-149822683(+)	7286	same
mir-92b	MI0003560	chr1:153431592-153431687(+)	LOC100133278	chr1:153430761-153433387(+)	100133278	same
mir-555	MI0003561	chr1:153582765-153582860(-)	ASH1L	chr1:153571676-153798948(-)	55870	same
mir-9-1	MI0000466	chr1:154656757-154656845(-)	C1orf61	chr1:154640679-154665808(-)	10485	same
mir-765	MI0005116	chr1:155172547-155172660(-)	ARHGEF11	chr1:155171256-155281786(-)	9826	same
mir-556	MI0003562	chr1:160578960-160579054(+)	NOS1AP	chr1:160306205-160604864(+)	9722	same
mir-921	MI0005713	chr1:164390604-164390659(-)	FAM78B	chr1:164305880-164402830(-)	149297	same
mir-1255b-2	MI0006436	chr1:166234522-166234588(+)	IQWD1	chr1:166172532-166311705(+)	55827	same
mir-1295	MI0006357	chr1:169337493-169337571(-)	FMO3	chr1:169326660-169353583(+)	2328	different
mir-214	MI0000290	chr1:170374561-170374670(-)	DNM3	chr1:170077261-170648480(+)	26052	different
mir-214	MI0000290	chr1:170374561-170374670(-)	LOC100128178	chr1:170373297-170519205(-)	100128178	same
mir-199a-2	MI0000281	chr1:170380298-170380407(-)	DNM3	chr1:170077261-170648480(+)	26052	different
mir-199a-2	MI0000281	chr1:170380298-170380407(-)	LOC100128178	chr1:170373297-170519205(-)	100128178	same
mir-488	MI0003123	chr1:175265122-175265204(-)	ASTN1	chr1:175096826-175400647(-)	460	same
mir-1290	MI0006352	chr1:19096152-19096229(-)	ALDH4A1	chr1:19070513-19101659(-)	8659	same
mir-1278	MI0006425	chr1:191372256-191372336(+)	CDC73	chr1:191357784-191487679(+)	79577	same
mir-1231	MI0006321	chr1:200044362-200044453(+)	NAV1	chr1:199884073-200061078(+)	89796	same
mir-205	MI0000285	chr1:207672101-207672210(+)	LOC642587	chr1:207668791-207672517(+)	642587	same
mir-1256	MI0006390	chr1:21187394-21187512(-)	EIF4G3	chr1:21005559-21375927(-)	8672	same
mir-215	MI0000291	chr1:218357818-218357927(-)	IARS2	chr1:218334078-218388006(+)	55699	different
mir-194-1	MI0000488	chr1:218358122-218358206(-)	IARS2	chr1:218334078-218388006(+)	55699	different
mir-664	MI0006442	chr1:218440503-218440584(-)	RAB3GAP2	chr1:218390350-218512375(-)	25782	same
mir-320b-2	MI0003839	chr1:222511329-222511466(-)	NVL	chr1:222481659-222584495(-)	4931	same
mir-1182	MI0006275	chr1:229222197-229222293(-)	FAM89A	chr1:229221545-229242608(-)	375061	same
mir-1537	MI0007258	chr1:234082923-234082983(-)	LYST	chr1:233890966-234096843(-)	1130	same
mir-1976	MI0009986	chr1:26753620-26753671(+)	RPS6KA1	chr1:26728836-26774107(+)	6195	same
mir-551a	MI0003556	chr1:3467119-3467214(-)	MEGF6	chr1:3394366-3517919(-)	1953	same
mir-30e	MI0000749	chr1:40992614-40992705(+)	NFYC	chr1:40929829-41009862(+)	4802	same
mir-30c-1	MI0000736	chr1:40995543-40995631(+)	NFYC	chr1:40929829-41009862(+)	4802	same
mir-1262	MI0006397	chr1:68421789-68421881(-)	GPR177	chr1:68336739-68470841(-)	79971	same
mir-186	MI0000483	chr1:71305902-71305987(-)	ZRANB2	chr1:71301562-71319333(-)	9406	same
mir-186	MI0000483	chr1:71305902-71305987(-)	LOC100132618	chr1:71284777-71309212(+)	100132618	different
mir-1287	MI0006349	chr10:100144965-100145054(-)	C10orf33	chr10:100133314-100164931(-)	84795	same

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mir-608	MI0003621	chr10:102724732-102724831(+)	SEMA4G	chr10:102722276-102735362(+)	57715	same
mir-1307	MI0006444	chr10:105144000-105144148(-)	USMG5	chr10:105138804-105146213(-)	84833	same
mir-936	MI0005758	chr10:105797837-105797934(-)	COL17A1	chr10:105781036-105835628(-)	1308	same
mir-609	MI0003622	chr10:105968537-105968631(-)	C10orf79	chr10:105879636-105982110(-)	80217	same
mir-548e	MI0006344	chr10:112738674-112738761(+)	SHOC2	chr10:112713903-112763413(+)	8036	same
mir-2110	MI0010629	chr10:115923854-115923928(-)	C10orf118	chr10:115871964-115924354(-)	55088	same
mir-511-1	MI0003127	chr10:17927113-17927199(+)	MRC1L1	chr10:17891368-17993184(+)	414308	same
mir-511-2	MI0003128	chr10:18174042-18174128(+)	MRC1	chr10:18138358-18240097(+)	4360	same
mir-1915	MI0008336	chr10:21825497-21825576(-)	C10orf114	chr10:21823427-21826197(-)	399726	same
mir-603	MI0003616	chr10:24604620-24604716(+)	KIAA1217	chr10:24023681-24876778(+)	56243	same
mir-604	MI0003617	chr10:29873939-29874032(-)	SVIL	chr10:29786283-30064736(-)	6840	same
mir-938	MI0005760	chr10:29931199-29931281(-)	SVIL	chr10:29786283-30064736(-)	6840	same
mir-605	MI0003618	chr10:52729339-52729421(+)	PRKG1	chr10:52420951-53725280(+)	5592	same
mir-548f-1	MI0006374	chr10:56037640-56037723(-)	PCDH15	chr10:55250866-56231057(-)	65217	same
mir-1296	MI0003780	chr10:64802723-64802814(-)	JMJD1C	chr10:64596991-64895728(-)	221037	same
mir-1254	MI0006388	chr10:70189081-70189177(+)	CCAR1	chr10:70150977-70221315(+)	55749	same
mir-346	MI0000826	chr10:88014431-88014525(-)	GRID1	chr10:87349292-88116230(-)	2894	same
mir-107	MI0000114	chr10:91342484-91342564(-)	PANK1	chr10:91332729-91395195(-)	53354	same
mir-34b	MI0000742	chr11:110888873-110888956(+)	LOC728196	chr11:110886535-110889823(+)	728196	same
mir-34c	MI0000743	chr11:110889374-110889450(+)	LOC728196	chr11:110886535-110889823(+)	728196	same
mir-675	MI0005416	chr11:1974565-1974637(-)	H19	chr11:1972982-1975641(-)	283120	same
mir-483	MI0002467	chr11:2111940-2112015(-)	IGF2	chr11:2106923-2127409(-)	3481	same
mir-483	MI0002467	chr11:2111940-2112015(-)	INS-IGF2	chr11:2106926-2139015(-)	723961	same
mir-610	MI0003623	chr11:28034938-28035033(+)	KIF18A	chr11:27998739-28086322(-)	81930	different
mir-129-2	MI0000473	chr11:43559520-43559609(+)	LOC100131381	chr11:43548532-43562727(+)	100131381	same
mir-611	MI0003624	chr11:61316543-61316609(-)	C11orf10	chr11:61313181-61316661(-)	746	same
mir-1908	MI0008329	chr11:61339209-61339288(-)	FADS1	chr11:61323679-61340886(-)	3992	same
mir-1237	MI0006327	chr11:63892650-63892751(+)	RPS6KA4	chr11:63883201-63896263(+)	8986	same
mir-548k	MI0006354	chr11:69807709-69807824(+)	PPFIA1	chr11:69794471-69908150(+)	8500	same
mir-139	MI0000261	chr11:72003755-72003822(-)	PDE2A	chr11:71964833-72063060(-)	5138	same
mir-326	MI0000808	chr11:74723784-74723878(-)	ARRB1	chr11:74654130-74740521(-)	408	same
mir-548l	MI0006361	chr11:93839309-93839394(-)	MRE11A	chr11:93790114-93866688(-)	4361	same
mir-619	MI0003633	chr12:107754813-107754911(-)	SSH1	chr12:107705099-107775480(-)	54434	same
mir-620	MI0003634	chr12:115070748-115070842(-)	MED13L	chr12:114880764-115199526(-)	23389	same
mir-1178	MI0006271	chr12:118635822-118635912(-)	CIT	chr12:118607981-118799475(-)	11113	same
mir-1244	MI0006379	chr12:12156153-12156237(+)	BCL2L14	chr12:12115145-12255214(+)	79370	same
mir-1244	MI0006379	chr12:12156153-12156237(+)	LOC643287	chr12:12155184-12156395(+)	643287	same

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mir-920	MI0005712	chr12:24256622-24256696(+)	SOX5	chr12:23576498-24606647(-)	6660	different
mir-1291	MI0006353	chr12:47334494-47334580(-)	C12orf41	chr12:47333261-47362302(-)	54934	same
mir-1293	MI0006355	chr12:48914192-48914262(-)	LIMA1	chr12:48855838-48963539(-)	51474	same
mir-615	MI0003628	chr12:52714001-52714096(+)	HOXC4	chr12:52696909-52736081(+)	3221	same
mir-615	MI0003628	chr12:52714001-52714096(+)	HOXC5	chr12:52696909-52715412(+)	3222	same
mir-148b	MI0000811	chr12:53017267-53017365(+)	COPZ1	chr12:53005178-53031900(+)	22818	same
mir-1228	MI0006318	chr12:55874554-55874626(+)	LRP1	chr12:55808549-55893409(+)	4035	same
mir-616	MI0003629	chr12:56199213-56199309(-)	DDIT3	chr12:56196638-56200567(-)	1649	same
mir-26a-2	MI0000750	chr12:56504659-56504742(-)	CTDSP2	chr12:56499977-56527014(-)	10106	same
mir-548c	MI0003630	chr12:63302556-63302652(+)	RASSF3	chr12:63290560-63375459(+)	283349	same
mir-1252	MI0006434	chr12:78337168-78337232(+)	SYT1	chr12:78135414-78368974(+)	6857	same
mir-617	MI0003631	chr12:79750443-79750539(-)	LIN7A	chr12:79715302-79855825(-)	8825	same
mir-618	MI0003632	chr12:79853646-79853743(-)	LIN7A	chr12:79715302-79855825(-)	8825	same
mir-1244	MI0006379	chr12:9283330-9283414(-)	PTMAP4	chr12:9283130-9284415(-)	5761	same
mir-492	MI0003131	chr12:93752305-93752420(+)	KRT19P2	chr12:93752331-93752965(+)	160313	same
mir-1267	MI0006404	chr13:106981520-106981597(-)	FAM155A	chr13:106618880-107317084(-)	728215	same
mir-621	MI0003635	chr13:40282902-40282997(+)	SUGT1L1	chr13:40269127-40393886(-)	283507	different
mir-16-1	MI0000070	chr13:49521110-49521198(-)	DLEU2	chr13:49454689-49597678(-)	8847	same
mir-15a	MI0000069	chr13:49521256-49521338(-)	DLEU2	chr13:49454689-49597678(-)	8847	same
mir-622	MI0003636	chr13:89681437-89681532(+)	KRT18P27	chr13:89680636-89681937(+)	390418	same
mir-623	MI0003637	chr13:98806386-98806483(+)	UBAC2	chr13:98651164-98836682(+)	337867	same
mir-770	MI0005118	chr14:100388480-100388577(+)	MEG3	chr14:100362198-100397121(+)	55384	same
mir-431	MI0001721	chr14:100417097-100417210(+)	RTL1	chr14:100416802-100420878(-)	388015	different
mir-433	MI0001723	chr14:100417976-100418068(+)	RTL1	chr14:100416802-100420878(-)	388015	different
mir-127	MI0000472	chr14:100419069-100419165(+)	RTL1	chr14:100416802-100420878(-)	388015	different
mir-432	MI0003133	chr14:100420573-100420666(+)	RTL1	chr14:100416802-100420878(-)	388015	different
mir-136	MI0000475	chr14:100420792-100420873(+)	RTL1	chr14:100416802-100420878(-)	388015	different
mir-1201	MI0006333	chr14:19864446-19864530(-)	CCNB1IP1	chr14:19849369-19871297(-)	57820	same
mir-208a	MI0000251	chr14:22927645-22927715(-)	MYH6	chr14:22921039-22947322(-)	4624	same
mir-208b	MI0005570	chr14:22957036-22957112(-)	MYH7	chr14:22951787-22974710(-)	4625	same
mir-624	MI0003638	chr14:30553603-30553699(-)	STRN3	chr14:30432756-30565358(-)	29966	same
mir-548h-1	MI0006411	chr14:63631495-63631596(-)	SYNE2	chr14:63389436-63762920(+)	23224	different
mir-625	MI0003639	chr14:65007573-65007657(+)	FUT8	chr14:64947593-65279715(+)	2530	same
mir-1260	MI0006394	chr14:76802314-76802386(+)	NGB	chr14:76801587-76807408(-)	58157	different
mir-342	MI0000805	chr14:99645745-99645843(+)	EVL	chr14:99601504-99680326(+)	51466	same
mir-211	MI0000287	chr15:29144527-29144636(-)	TRPM1	chr15:29080829-29181216(-)	4308	same
mir-1233	MI0006323	chr15:32461562-32461643(-)	GOLGA8A	chr15:32458561-32487180(-)	23015	same

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mir-1233	MI0006323	chr15:32607783-32607864(-)	GOLGA8B	chr15:32604588-32613203(-)	440270	same
mir-626	MI0003640	chr15:39771075-39771168(+)	MGA	chr15:39739902-39849433(+)	23269	same
mir-627	MI0003641	chr15:40279060-40279156(-)	VPS39	chr15:40238191-40287794(-)	23339	same
mir-1282	MI0006429	chr15:41873149-41873249(-)	SERF2	chr15:41871769-41875579(+)	10169	different
mir-147b	MI0005544	chr15:43512540-43512619(+)	C15orf48	chr15:43510055-43512939(+)	84419	same
mir-1266	MI0006403	chr15:50356606-50356689(-)	MYO5C	chr15:50271811-50375262(-)	55930	same
mir-1300	MI0006360	chr15:51017859-51017946(-)	LOC645693	chr15:51016334-51018048(-)	645693	same
mir-628	MI0003642	chr15:53452430-53452524(-)	CCPG1	chr15:53434730-53487866(-)	9236	same
mir-190	MI0000486	chr15:60903209-60903293(+)	TLN2	chr15:60726802-60923883(+)	83660	same
mir-1272	MI0006408	chr15:62841639-62841767(-)	RBPMS2	chr15:62819146-62854823(-)	348093	same
mir-629	MI0003643	chr15:68158765-68158861(-)	TLE3	chr15:68127597-68177310(-)	7090	same
mir-631	MI0003645	chr15:73433005-73433079(-)	NEIL1	chr15:73426463-73434641(+)	79661	different
mir-184	MI0000481	chr15:77289185-77289268(+)	LOC729911	chr15:77271368-77363268(-)	729911	different
mir-549	MI0003679	chr15:78921374-78921469(-)	KIAA1199	chr15:78858767-79031054(+)	57214	different
mir-1276	MI0006416	chr15:84114731-84114813(-)	KLHL25	chr15:84103561-84139193(-)	64410	same
mir-1469	MI0007074	chr15:94677494-94677540(+)	NR2F2	chr15:94674950-94683048(+)	7026	same
mir-193b	MI0003137	chr16:14305325-14305407(+)	LOC100129781	chr16:14294512-14327875(+)	100129781	same
mir-365-1	MI0000767	chr16:14310643-14310729(+)	LOC100129781	chr16:14294512-14327875(+)	100129781	same
mir-1972	MI0009982	chr16:15011679-15011755(-)	PDXDC1	chr16:14976487-15039690(+)	23042	different
mir-1225	MI0006311	chr16:2080197-2080286(-)	PKD1	chr16:2078712-2125900(-)	5310	same
mir-328	MI0000804	chr16:65793725-65793799(-)	ELMO3	chr16:65790529-65795428(+)	79767	different
mir-1538	MI0007259	chr16:68157212-68157272(-)	NFAT5	chr16:68156498-68296054(+)	10725	different
mir-140	MI0000456	chr16:68524485-68524584(+)	WWP2	chr16:68353775-68533144(+)	11060	same
mir-1972	MI0009982	chr16:68621750-68621826(+)	PDXDC2	chr16:68567701-68657352(-)	283970	different
mir-662	MI0003670	chr16:760184-760278(+)	MSLNL	chr16:759429-772927(-)	401827	different
mir-1910	MI0008331	chr16:84332728-84332807(-)	C16orf74	chr16:84298624-84342190(-)	404550	same
mir-744	MI0005559	chr17:11925941-11926038(+)	MAP2K4	chr17:11864860-11987776(+)	6416	same
mir-548h-3	MI0006413	chr17:13387571-13387688(-)	HS3ST3A1	chr17:13339731-13445969(-)	9955	same
mir-22	MI0000078	chr17:1563947-1564031(-)	C17orf91	chr17:1561553-1566255(-)	84981	same
mir-1288	MI0006432	chr17:16126053-16126127(+)	PIGL	chr17:16061234-16170298(+)	9487	same
mir-33b	MI0003646	chr17:17657875-17657970(-)	SREBF1	chr17:17656111-17681050(-)	6720	same
mir-1180	MI0006273	chr17:19188412-19188480(-)	B9D1	chr17:19187076-19206639(-)	27077	same
mir-423	MI0001445	chr17:25468223-25468316(+)	CCDC55	chr17:25467960-25537612(+)	84081	same
mir-365-2	MI0000769	chr17:26926543-26926653(+)	LOC100130112	chr17:26922280-26926791(+)	100130112	same
mir-632	MI0003647	chr17:27701241-27701334(+)	ZNF207	chr17:27701270-27721581(+)	7756	same
mir-923	MI0005715	chr17:30502292-30502346(-)	UNC45B	chr17:30498949-30540477(+)	146862	different
mir-152	MI0000462	chr17:43469526-43469612(-)	COPZ2	chr17:43458532-43470151(-)	51226	same

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mir-1203	MI0006335	chr17:43588788-43588872(-)	SKAP1	chr17:43565801-43862593(-)	8631	same
mir-454	MI0003820	chr17:54569901-54570015(-)	FAM33A	chr17:54542090-54587582(-)	348235	same
mir-301a	MI0000745	chr17:54583279-54583364(-)	FAM33A	chr17:54542090-54587582(-)	348235	same
mir-634	MI0003649	chr17:62213652-62213748(+)	PRKCA	chr17:61729388-62237324(+)	5578	same
mir-548d-2	MI0003671	chr17:62898067-62898163(-)	PITPNC1	chr17:62804386-63120109(+)	26207	different
mir-635	MI0003650	chr17:63932187-63932284(-)	WIPI1	chr17:63929017-63965248(-)	55062	same
mir-324	MI0000813	chr17:7067340-7067422(-)	ACADVL	chr17:7063877-7069309(+)	37	different
mir-636	MI0003651	chr17:72244127-72244225(-)	SFRS2	chr17:72241792-72245007(-)	6427	same
mir-657	MI0003681	chr17:76713671-76713768(-)	AATK	chr17:76705160-76721740(-)	9625	same
mir-338	MI0000814	chr17:76714278-76714344(-)	AATK	chr17:76705160-76721740(-)	9625	same
mir-1250	MI0006385	chr17:76721591-76721703(-)	AATK	chr17:76705160-76721740(-)	9625	same
mir-320c-1	MI0003778	chr18:17517469-17517556(+)	ABHD3	chr18:17484856-17538724(-)	171586	different
mir-133a-1	MI0000450	chr18:17659657-17659744(-)	MIB1	chr18:17575543-17704912(+)	57534	different
mir-1-2	MI0000437	chr18:17662963-17663047(-)	MIB1	chr18:17575543-17704912(+)	57534	different
mir-320c-2	MI0008191	chr18:20155648-20155697(+)	OSBPL1A	chr18:19996007-20231788(-)	114876	different
mir-1181	MI0006274	chr19:10375134-10375214(-)	CDC37	chr19:10362809-10375271(-)	11140	same
mir-1238	MI0006328	chr19:10523798-10523880(+)	ATG4D	chr19:10515647-10525094(+)	84971	same
mir-638	MI0003653	chr19:10690080-10690179(+)	DNM2	chr19:10689755-10803579(+)	1785	same
mir-199a-1	MI0000242	chr19:10789102-10789172(-)	DNM2	chr19:10689755-10803579(+)	1785	different
mir-639	MI0003654	chr19:14501355-14501452(+)	GPSN2	chr19:14501382-14537792(+)	9524	same
mir-1470	MI0007075	chr19:15421359-15421419(+)	WIZ	chr19:15393318-15421762(-)	58525	different
mir-1909	MI0008330	chr19:1767158-1767237(-)	REXO1	chr19:1766245-1799452(-)	57455	same
mir-1270	MI0006407	chr19:20371080-20371162(-)	ZNF826	chr19:20367763-20399602(-)	664701	same
mir-1227	MI0006316	chr19:2185061-2185148(-)	PLEKHJ1	chr19:2184155-2187328(-)	55111	same
mir-1302-2	MI0006363	chr19:22973-23110(+)	LOC100132098	chr19:18265-28430(-)	100132098	different
mir-637	MI0003652	chr19:3912412-3912510(-)	DAPK3	chr19:3909452-3920826(-)	1613	same
mir-641	MI0003656	chr19:45480290-45480388(-)	AKT2	chr19:45428064-45483105(-)	208	same
mir-7-3	MI0000265	chr19:4721682-4721791(+)	C19orf30	chr19:4720152-4723570(+)	284424	same
mir-330	MI0000803	chr19:50834092-50834185(-)	EML2	chr19:50804498-50834509(-)	24139	same
mir-642	MI0003657	chr19:50870026-50870122(+)	GIPR	chr19:50863342-50877557(+)	2696	same
mir-220c	MI0005536	chr19:53755341-53755423(-)	SULT2B1	chr19:53747241-53794496(+)	6820	different
mir-150	MI0000479	chr19:54695854-54695937(-)	LOC100128528	chr19:54695593-54696426(+)	100128528	different
mir-643	MI0003658	chr19:57476862-57476958(+)	ZNF766	chr19:57464636-57487788(+)	90321	same
mir-519a-2	MI0003182	chr19:58957410-58957496(+)	LOC100128255	chr19:58957271-58957715(+)	100128255	same
mir-935	MI0005757	chr19:59177373-59177463(+)	CACNG8	chr19:59158106-59177951(+)	59283	same
mir-220b	MI0005529	chr19:6446959-6447045(+)	TUBB4	chr19:6445330-6453330(-)	10382	different
mir-663b	MI0006336	chr2:132731009-132731123(-)	LOC100133239	chr2:132726444-132733571(+)	100133239	different

Supplemental Table 1: A list of pre-miRNA host genes

pre-miRNA ID	MI ID	pre-miRNA location (hg18)	Host gene	Host gene location (hg18)	Entrez ID	Direction
mir-128-1	MI0000447	chr2:136139437-136139518(+)	R3HDM1	chr2:136005553-136199309(+)	23518	same
mir-933	MI0005755	chr2:175740607-175740683(-)	ATF2	chr2:175647252-175741143(-)	1386	same
mir-1258	MI0006392	chr2:180433808-180433880(-)	ZNF385B	chr2:180014954-180434312(-)	151126	same
mir-561	MI0003567	chr2:188870464-188870560(+)	GULP1	chr2:188865635-189168898(+)	51454	same
mir-1245	MI0006380	chr2:189551063-189551132(+)	COL3A1	chr2:189547344-189585717(+)	1281	same
mir-1302-4	MI0006365	chr2:207842244-207842393(-)	LOC729607	chr2:207812833-207884544(-)	729607	same
mir-548f-2	MI0006375	chr2:212999232-212999329(-)	ERBB4	chr2:211948687-213111597(-)	2066	same
mir-26b	MI0000084	chr2:218975613-218975689(+)	CTDSP1	chr2:218972722-218978908(+)	58190	same
mir-375	MI0000783	chr2:219574611-219574674(-)	LOC100129175	chr2:219572079-219588688(+)	100129175	different
mir-153-1	MI0000463	chr2:219867077-219867166(-)	PTPRN	chr2:219862589-219882387(-)	5798	same
mir-1244	MI0006379	chr2:232286268-232286352(+)	PTMA	chr2:232281479-232286495(+)	5757	same
mir-562	MI0003568	chr2:232745607-232745701(+)	DIS3L2	chr2:232534537-232910152(+)	129563	same
mir-149	MI0000478	chr2:241044091-241044179(+)	GPC1	chr2:241023788-241056168(+)	2817	same
mir-149	MI0000478	chr2:241044091-241044179(+)	PP14571	chr2:241037500-241044804(-)	100130449	different
mir-1301	MI0003815	chr2:25405013-25405094(-)	DNMT3A	chr2:25309349-25418963(-)	1788	same
mir-558	MI0003564	chr2:32610724-32610817(+)	BIRC6	chr2:32435600-32697470(+)	57448	same
mir-559	MI0003565	chr2:47458318-47458413(+)	EPCAM	chr2:47449971-47467661(+)	4072	same
mir-1292	MI0006433	chr20:2581423-2581488(+)	NOP56	chr20:2581254-2587039(+)	10528	same
mir-663	MI0003672	chr20:26136822-26136914(-)	LOC284801	chr20:26115655-26137445(-)	284801	same
mir-1825	MI0008193	chr20:30289259-30289311(+)	POFUT1	chr20:30259357-30290128(+)	23509	same
mir-644	MI0003659	chr20:32517791-32517884(+)	ITCH	chr20:32414745-32562858(+)	83737	same
mir-499	MI0003183	chr20:33041840-33041961(+)	MYH7B	chr20:33026867-33053897(+)	57644	same
mir-103-2	MI0000108	chr20:3846141-3846218(+)	PANK2	chr20:3817486-3852502(+)	80025	same
mir-103-2-as	MI0007262	chr20:3846149-3846210(-)	PANK2	chr20:3817486-3852502(+)	80025	different
mir-1259	MI0006393	chr20:47330254-47330364(+)	C20orf199	chr20:47310234-47339204(+)	441951	same
mir-1302-5	MI0006366	chr20:48664580-48664729(-)	FAM65C	chr20:48636052-48686833(-)	140876	same
mir-646	MI0003661	chr20:58316927-58317020(+)	LOC100131710	chr20:58148235-58339985(+)	100131710	same
mir-1-1	MI0000651	chr20:60561958-60562028(+)	C20orf166	chr20:60558105-60578409(+)	128826	same
mir-133a-2	MI0000451	chr20:60572564-60572665(+)	C20orf166	chr20:60558105-60578409(+)	128826	same
mir-941-1	MI0005763	chr20:62021238-62021326(+)	DNAJC5	chr20:61996962-62035839(+)	80331	same
mir-941-2	MI0005764	chr20:62021545-62021633(+)	DNAJC5	chr20:61996962-62035839(+)	80331	same
mir-941-3	MI0005765	chr20:62021657-62021745(+)	DNAJC5	chr20:61996962-62035839(+)	80331	same
mir-1914	MI0008335	chr20:62043262-62043341(-)	UCKL1	chr20:62041630-62058212(-)	54963	same
mir-647	MI0003662	chr20:62044428-62044523(-)	UCKL1	chr20:62041630-62058212(-)	54963	same
mir-99a	MI0000101	chr21:16833280-16833360(+)	C21orf34	chr21:16364713-16901413(+)	388815	same
let-7c	MI0000064	chr21:16834019-16834102(+)	C21orf34	chr21:16364713-16901413(+)	388815	same
mir-125b-2	MI0000470	chr21:16884428-16884516(+)	C21orf34	chr21:16364713-16901413(+)	388815	same

Supplemental Table 1: A list of pre-miRNA host genes

pre-miRNA ID	MI ID	pre-miRNA location (hg18)	Host gene	Host gene location (hg18)	Entrez ID	Direction
mir-155	MI0000681	chr21:25868163-25868227(+)	MIRHG2	chr21:25856376-25869344(+)	114614	same
mir-185	MI0000482	chr22:18400662-18400743(+)	C22orf25	chr22:18388631-18433447(+)	128989	same
mir-1306	MI0006443	chr22:18453581-18453665(+)	DGCR8	chr22:18447834-18479400(+)	54487	same
mir-1286	MI0006348	chr22:18616657-18616734(-)	RTN4R	chr22:18608938-18635816(-)	65078	same
mir-650	MI0003665	chr22:21495270-21495365(+)	IGL@	chr22:20710659-21595085(+)	3535	same
mir-548j	MI0006345	chr22:25281178-25281289(-)	TPST2	chr22:25251714-25316089(-)	8459	same
mir-548j	MI0006345	chr22:25281178-25281289(-)	HMGB1L10	chr22:25275760-25287594(+)	100130561	different
mir-658	MI0003682	chr22:36570225-36570324(-)	ANKRD54	chr22:36556808-36570249(-)	129138	same
mir-33a	MI0000091	chr22:40626894-40626962(+)	SREBF2	chr22:40559052-40632321(+)	6721	same
mir-1249	MI0006384	chr22:43975499-43975564(-)	C22orf9	chr22:43966787-44015314(-)	23313	same
mir-885	MI0005560	chr3:10411173-10411246(-)	ATP2B2	chr3:10342744-10466546(-)	491	same
mir-567	MI0003573	chr3:113314338-113314435(+)	C3orf52	chr3:113287929-113319734(+)	79669	same
mir-198	MI0000240	chr3:121597205-121597266(-)	FSTL1	chr3:121595816-121652515(-)	11167	same
mir-1280	MI0006437	chr3:129563698-129563791(+)	EEFSEC	chr3:129355003-129610179(+)	60678	same
mir-15b	MI0000438	chr3:161605070-161605167(+)	SMC4	chr3:161600124-161635435(+)	10051	same
mir-16-2	MI0000115	chr3:161605227-161605307(+)	SMC4	chr3:161600124-161635435(+)	10051	same
mir-569	MI0003576	chr3:172307147-172307242(-)	TNIK	chr3:172264364-172660546(-)	23043	same
mir-1224	MI0003764	chr3:185441887-185441971(+)	VWA5B2	chr3:185431011-185442814(+)	90113	same
mir-1248	MI0006383	chr3:187987155-187987260(+)	EIF4A2	chr3:187984055-187990380(+)	1974	same
mir-28	MI0000086	chr3:189889263-189889348(+)	LPP	chr3:189413415-190080135(+)	4026	same
mir-944	MI0005769	chr3:191030405-191030492(+)	TP63	chr3:190831910-191097759(+)	8626	same
mir-922	MI0005714	chr3:198885764-198885844(-)	KIAA0226	chr3:198882656-198948170(-)	9711	same
mir-128-2	MI0000727	chr3:35760972-35761055(+)	ARPP-21	chr3:35658853-35810992(+)	10777	same
mir-26a-1	MI0000083	chr3:37985899-37985975(+)	CTDSPL	chr3:37878673-38000964(+)	10217	same
mir-564	MI0003570	chr3:44878384-44878477(+)	TMEM42	chr3:44878412-44882160(+)	131616	same
mir-1226	MI0006313	chr3:47866049-47866123(+)	DHX30	chr3:47819655-47866687(+)	22907	same
mir-425	MI0001448	chr3:49032585-49032671(-)	DALRD3	chr3:49027439-49033471(-)	55152	same
mir-191	MI0000465	chr3:49033055-49033146(-)	NDUFAF3	chr3:49032912-49035932(+)	25915	different
mir-191	MI0000465	chr3:49033055-49033146(-)	DALRD3	chr3:49027439-49033471(-)	55152	same
mir-566	MI0003572	chr3:50185763-50185856(+)	SEMA3F	chr3:50167852-50201512(+)	6405	same
let-7g	MI0000433	chr3:52277334-52277417(-)	WDR82	chr3:52263478-52287699(-)	80335	same
mir-1284	MI0006431	chr3:71673811-71673930(-)	FOXP1	chr3:71087426-71715830(-)	27086	same
mir-1255a	MI0006389	chr4:102470482-102470594(-)	PPP3CA	chr4:102163610-102487376(-)	5530	same
mir-572	MI0003579	chr4:10979549-10979643(+)	LOC643446	chr4:10972081-10984486(+)	643446	same
mir-576	MI0003583	chr4:110629303-110629400(+)	SEC24B	chr4:110574420-110681064(+)	10427	same
mir-367	MI0000775	chr4:113788479-113788546(-)	LARP7	chr4:113777569-113798191(+)	51574	different
mir-302d	MI0000774	chr4:113788609-113788676(-)	LARP7	chr4:113777569-113798191(+)	51574	different

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pre-miRNA ID	MI ID	pre-miRNA location (hg18)	Host gene	Host gene location (hg18)	Entrez ID	Direction
mir-302a	MI0000738	chr4:113788788-113788856(-)	LARP7	chr4:113777569-113798191(+)	51574	different
mir-302c	MI0000773	chr4:113788968-113789035(-)	LARP7	chr4:113777569-113798191(+)	51574	different
mir-302b	MI0000772	chr4:113789090-113789162(-)	LARP7	chr4:113777569-113798191(+)	51574	different
mir-1243	MI0006373	chr4:114247468-114247560(+)	ANK2	chr4:114190319-114524337(+)	287	same
mir-577	MI0003584	chr4:115797364-115797459(+)	UGT8	chr4:115762972-115817201(+)	7368	same
mir-578	MI0003585	chr4:166526844-166526939(+)	CPE	chr4:166519538-166638926(+)	1363	same
mir-1979	MI0009989	chr4:166541264-166541339(-)	CPE	chr4:166519538-166638926(+)	1363	different
mir-943	MI0005768	chr4:1957909-1958002(-)	WHSC2	chr4:1954248-1980547(-)	7469	same
mir-218-1	MI0000294	chr4:20138996-20139105(+)	SLIT2	chr4:19864333-20229886(+)	9353	same
mir-571	MI0003578	chr4:333946-334041(+)	ZNF141	chr4:321617-359047(+)	7700	same
mir-574	MI0003581	chr4:38546048-38546143(+)	FAM114A1	chr4:38545832-38621823(+)	92689	same
mir-95	MI0000097	chr4:8057928-8058008(-)	ABLIM2	chr4:8017938-8211459(-)	84448	same
mir-575	MI0003582	chr4:83893514-83893607(-)	SCD5	chr4:83769714-83939034(-)	79966	same
mir-548p	MI0006420	chr5:100180085-100180168(-)	ST8SIA4	chr5:100170803-100266869(-)	7903	same
mir-548f-3	MI0006376	chr5:109877429-109877515(-)	FLJ43080	chr5:109784099-110090288(-)	642987	same
mir-1244	MI0006379	chr5:118338180-118338264(+)	PTMAP2	chr5:118337007-118338520(+)	5759	same
mir-1244	MI0006379	chr5:118338180-118338264(+)	DTWD2	chr5:118203135-118352139(-)	285605	different
mir-1289-2	MI0006351	chr5:132791187-132791297(-)	FSTL4	chr5:132560051-132976122(-)	23105	same
mir-874	MI0005532	chr5:137011160-137011237(-)	KLHL3	chr5:136981088-137099362(-)	26249	same
mir-584	MI0003591	chr5:148422069-148422165(-)	SH3TC2	chr5:148341906-148422930(-)	79628	same
mir-143	MI0000459	chr5:148788674-148788779(+)	LOC728264	chr5:148743536-148790387(+)	728264	same
mir-378	MI0000786	chr5:149092581-149092646(+)	PPARGC1B	chr5:149090057-149207474(+)	133522	same
mir-1294	MI0006356	chr5:153706859-153707000(+)	GALNT10	chr5:153550488-153780003(+)	55568	same
mir-887	MI0005562	chr5:15988291-15988369(+)	FBXL7	chr5:15553305-15992900(+)	23194	same
mir-103-1	MI0000109	chr5:167920479-167920556(-)	PANK3	chr5:167915208-167939166(-)	79646	same
mir-103-1-as	MI0007261	chr5:167920487-167920548(+)	PANK3	chr5:167915208-167939166(-)	79646	different
mir-218-2	MI0000295	chr5:168127729-168127838(-)	SLIT3	chr5:168025857-168660554(-)	6586	same
mir-585	MI0003592	chr5:168623183-168623276(-)	SLIT3	chr5:168025857-168660554(-)	6586	same
mir-1271	MI0003814	chr5:175727555-175727640(+)	ARL10	chr5:175725108-175733109(+)	285598	same
mir-1229	MI0006319	chr5:179157884-179157952(-)	MGAT4B	chr5:179156711-179166547(-)	11282	same
mir-340	MI0000802	chr5:179374909-179375003(-)	RNF130	chr5:179315080-179431715(-)	55819	same
mir-579	MI0003586	chr5:32430241-32430338(-)	ZFR	chr5:32390213-32480601(-)	51663	same
mir-580	MI0003587	chr5:36183751-36183847(-)	LMBRD2	chr5:36139171-36187772(-)	92255	same
mir-1274a	MI0006410	chr5:41511491-41511561(+)	PLCXD3	chr5:41342805-41546487(-)	345557	different
mir-581	MI0003588	chr5:53283091-53283186(-)	ARL15	chr5:53216371-53642160(-)	54622	same
mir-449a	MI0001648	chr5:54502117-54502207(-)	CDC20B	chr5:54444580-54504760(-)	166979	same
mir-449b	MI0003673	chr5:54502231-54502327(-)	CDC20B	chr5:54444580-54504760(-)	166979	same



Supplemental Table 1: A list of pre-miRNA host genes

pre-miRNA ID	MI ID	pre-miRNA location (hg18)	Host gene	Host gene location (hg18)	Entrez ID	Direction
mir-582	MI0003589	chr5:59035189-59035286(-)	PDE4D	chr5:58300622-59225378(-)	5144	same
mir-9-2	MI0000467	chr5:87998427-87998513(-)	LOC645323	chr5:87871743-88010012(-)	645323	same
mir-1974	MI0009984	chr5:93930928-93930997(-)	C5orf36	chr5:93880919-93980040(-)	285600	same
mir-583	MI0003590	chr5:95440598-95440672(+)	LOC441097	chr5:95410406-95577074(+)	441097	same
mir-548b	MI0003596	chr6:119431911-119432007(-)	FAM184A	chr6:119322694-119512057(-)	79632	same
mir-1913	MI0008334	chr6:166842832-166842911(-)	RPS6KA2	chr6:166742844-167195761(-)	6196	same
mir-877	MI0005561	chr6:30660088-30660173(+)	ABCF1	chr6:30647149-30667288(+)	23	same
mir-1236	MI0006326	chr6:32032595-32032696(-)	RDBP	chr6:32027843-32034843(-)	7936	same
mir-586	MI0003594	chr6:45273389-45273485(-)	SUPT3H	chr6:44904447-45453648(-)	8464	same
mir-548o	MI0006402	chr7:101833194-101833307(-)	PRKRIP1	chr7:101823809-101854134(+)	79706	different
mir-339	MI0000815	chr7:1029095-1029188(-)	C7orf50	chr7:1003168-1144360(-)	84310	same
mir-592	MI0003604	chr7:126485378-126485474(-)	GRM8	chr7:125865895-126670548(-)	2918	same
mir-593	MI0003605	chr7:127509149-127509248(+)	SND1	chr7:127079438-127519895(+)	27044	same
mir-129-1	MI0000252	chr7:127635161-127635232(+)	LOC100131212	chr7:127634102-127651720(+)	100131212	same
mir-335	MI0000816	chr7:129923188-129923281(+)	MEST	chr7:129913282-129933369(+)	4232	same
mir-490	MI0003125	chr7:136238454-136238581(+)	CHRM2	chr7:136203939-136352311(+)	1129	same
mir-548f-4	MI0006377	chr7:146706042-146706146(-)	CNTNAP2	chr7:145444386-147749019(+)	26047	different
mir-1975	MI0009985	chr7:148269513-148269587(+)	RNY5	chr7:148269011-148269818(+)	6090	same
mir-671	MI0003760	chr7:150566440-150566557(+)	CSGLCA-T	chr7:150560518-150566838(+)	54480	same
mir-153-2	MI0000464	chr7:157059789-157059875(-)	PTPRN2	chr7:157024516-158073179(-)	5799	same
mir-595	MI0003607	chr7:158018171-158018266(-)	PTPRN2	chr7:157024516-158073179(-)	5799	same
mir-1183	MI0006276	chr7:21477201-21477289(+)	SP4	chr7:21434214-21520687(+)	6671	same
mir-550-1	MI0003600	chr7:30295935-30296031(+)	ZNRF2	chr7:30290448-30373833(+)	223082	same
mir-548n	MI0006399	chr7:34946897-34946971(-)	DPY19L1	chr7:34935018-35044178(-)	23333	same
mir-1200	MI0006332	chr7:36925487-36925562(-)	ELMO1	chr7:36860486-37455036(-)	9844	same
mir-589	MI0003599	chr7:5501976-5502074(-)	FBXL18	chr7:5481954-5519925(-)	80028	same
mir-590	MI0003602	chr7:73243464-73243560(+)	EIF4H	chr7:73226642-73249365(+)	7458	same
mir-1285-1	MI0006346	chr7:91671265-91671348(-)	KRIT1	chr7:91666219-91713350(-)	889	same
mir-653	MI0003674	chr7:92950008-92950103(-)	CALCR	chr7:92891735-93041686(-)	799	same
mir-489	MI0003124	chr7:92951184-92951267(-)	CALCR	chr7:92891735-93041686(-)	799	same
mir-591	MI0003603	chr7:95686910-95687004(-)	SLC25A13	chr7:95587468-95789341(-)	10165	same
mir-25	MI0000082	chr7:99529119-99529202(-)	MCM7	chr7:99528340-99537363(-)	4176	same
mir-93	MI0000095	chr7:99529327-99529406(-)	MCM7	chr7:99528340-99537363(-)	4176	same
mir-106b	MI0000734	chr7:99529552-99529633(-)	MCM7	chr7:99528340-99537363(-)	4176	same
mir-599	MI0003611	chr8:100618040-100618134(-)	VPS13B	chr8:100094670-100958984(+)	157680	different
mir-875	MI0005541	chr8:100618190-100618265(-)	VPS13B	chr8:100094670-100958984(+)	157680	different
mir-1273	MI0006409	chr8:101105386-101105488(-)	RGS22	chr8:101042452-101187520(-)	26166	same

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pre-miRNA ID	MI ID	pre-miRNA location (hg18)	Host gene	Host gene location (hg18)	Entrez ID	Direction
mir-1322	MI0006653	chr8:10720293-10720363(-)	PINX1	chr8:10660294-10734709(-)	54984	same
mir-598	MI0003610	chr8:10930126-10930222(-)	XKR6	chr8:10791064-11096285(-)	286046	same
mir-2053	MI0010487	chr8:113724898-113724988(+)	CSMD3	chr8:113304333-114518418(-)	114788	different
mir-548d-1	MI0003668	chr8:124429455-124429551(-)	ATAD2	chr8:124401922-124477868(-)	29028	same
mir-1204	MI0006337	chr8:128877390-128877456(+)	PVT1	chr8:128875961-129182681(+)	5820	same
mir-1205	MI0006338	chr8:129042061-129042123(+)	PVT1	chr8:128875961-129182681(+)	5820	same
mir-1206	MI0006339	chr8:129090326-129090384(+)	PVT1	chr8:128875961-129182681(+)	5820	same
mir-1207	MI0006340	chr8:129130580-129130666(+)	PVT1	chr8:128875961-129182681(+)	5820	same
mir-151	MI0000809	chr8:141811845-141811934(-)	PTK2	chr8:141737683-142080514(-)	5747	same
mir-937	MI0005759	chr8:144967115-144967200(-)	SCRIB	chr8:144945078-144969537(-)	23513	same
mir-661	MI0003669	chr8:145091347-145091435(-)	PLEC1	chr8:145061309-145121531(-)	5339	same
mir-939	MI0005761	chr8:145590172-145590253(-)	CPSF1	chr8:145589254-145605541(-)	29894	same
mir-1234	MI0006324	chr8:145596284-145596367(-)	CPSF1	chr8:145589254-145605541(-)	29894	same
mir-383	MI0000791	chr8:14755318-14755390(-)	SGCZ	chr8:13991744-15140163(-)	137868	same
mir-486	MI0002470	chr8:41637116-41637183(-)	ANK1	chr8:41629901-41774297(-)	286	same
mir-2052	MI0010486	chr8:75780483-75780537(+)	FLJ39080	chr8:75674656-75833142(+)	441355	same
mir-597	MI0003609	chr8:9636592-9636688(+)	TNKS	chr8:9450855-9677266(+)	8658	same
mir-32	MI0000090	chr9:110848330-110848399(-)	C9orf5	chr9:110817236-110922046(-)	23731	same
mir-455	MI0003513	chr9:116011535-116011630(+)	COL27A1	chr9:115958052-116112796(+)	85301	same
mir-600	MI0003613	chr9:124913646-124913743(-)	C9orf45	chr9:124911594-124916052(-)	81571	same
mir-601	MI0003614	chr9:125204625-125204703(-)	DENND1A	chr9:125181754-125732238(-)	57706	same
mir-181a-2	MI0000269	chr9:126494542-126494651(+)	NR6A1	chr9:126324524-126573397(-)	2649	different
mir-181b-2	MI0000683	chr9:126495810-126495898(+)	NR6A1	chr9:126324524-126573397(-)	2649	different
mir-199b	MI0000282	chr9:130046821-130046930(-)	DNM1	chr9:130005484-130057348(+)	1759	different
mir-126	MI0000471	chr9:138684875-138684959(+)	EGFL7	chr9:138677198-138686951(+)	51162	same
mir-491	MI0003126	chr9:20706104-20706187(+)	KIAA1797	chr9:20648309-20985954(+)	54914	same
mir-101-2	MI0000739	chr9:4840297-4840375(+)	RCL1	chr9:4782834-4851064(+)	10171	same
mir-101-2	MI0000739	chr9:4840297-4840375(+)	LOC100129106	chr9:4793788-4865982(-)	100129106	different
mir-204	MI0000284	chr9:72614711-72614820(-)	TRPM3	chr9:72339769-72926334(-)	80036	same
mir-7-1	MI0000263	chr9:85774483-85774592(-)	HNRNPK	chr9:85772912-85785339(-)	3190	same
let-7d	MI0000065	chr9:95980937-95981023(+)	LOC158257	chr9:95978561-96061936(-)	158257	different
mir-23b	MI0000439	chr9:96887311-96887407(+)	C9orf3	chr9:96528815-96889262(+)	84909	same
mir-27b	MI0000440	chr9:96887548-96887644(+)	C9orf3	chr9:96528815-96889262(+)	84909	same
mir-24-1	MI0000080	chr9:96888124-96888191(+)	C9orf3	chr9:96528815-96889262(+)	84909	same
mir-1302-8	MI0006369	chr9:99165657-99165784(-)	KIAA1529	chr9:99040600-99179390(+)	57653	different
mir-1978	MI0009988	chrMT:622-674(+)	RNR1	chrMT:650-1603(+)	4549	same
mir-652	MI0003667	chrX:109185213-109185310(+)	TMEM164	chrX:109133018-109303430(+)	84187	same

Supplemental Table 1: A list of pre-miRNA host genes

pre-miRNA ID	MI ID	pre-miRNA location (hg18)	Host gene	Host gene location (hg18)	Entrez ID	Direction
mir-1912	MI0008333	chrX:113792275-113792354(+)	HTR2C	chrX:113724807-114050880(+)	3358	same
mir-1264	MI0003758	chrX:113793386-113793454(+)	HTR2C	chrX:113724807-114050880(+)	3358	same
mir-1298	MI0003938	chrX:113855906-113856017(+)	HTR2C	chrX:113724807-114050880(+)	3358	same
mir-1911	MI0008332	chrX:113904000-113904079(+)	HTR2C	chrX:113724807-114050880(+)	3358	same
mir-448	MI0001637	chrX:113964273-113964383(+)	HTR2C	chrX:113724807-114050880(+)	3358	same
mir-1277	MI0006419	chrX:117404385-117404462(+)	WDR44	chrX:117364070-117467952(+)	54521	same
mir-766	MI0003836	chrX:118664729-118664839(-)	SEPT6	chrX:118633715-118711361(-)	23157	same
mir-220a	MI0000297	chrX:122523627-122523736(-)	LOC402422	chrX:122519950-122524507(+)	402422	different
mir-19b-2	MI0000075	chrX:133131367-133131462(-)	LOC644403	chrX:133131427-133167570(+)	644403	different
mir-20b	MI0001519	chrX:133131505-133131573(-)	LOC644403	chrX:133131427-133167570(+)	644403	different
mir-18b	MI0001518	chrX:133131737-133131807(-)	LOC644403	chrX:133131427-133167570(+)	644403	different
mir-106a	MI0000113	chrX:133131894-133131974(-)	LOC644403	chrX:133131427-133167570(+)	644403	different
mir-503	MI0003188	chrX:133508024-133508094(-)	MGC16121	chrX:133506122-133516164(-)	84848	same
mir-424	MI0001446	chrX:133508310-133508407(-)	MGC16121	chrX:133506122-133516164(-)	84848	same
mir-934	MI0005756	chrX:135460703-135460785(+)	VGLL1	chrX:135441977-135466629(+)	51442	same
mir-504	MI0003189	chrX:137577538-137577620(-)	FGF13	chrX:137541401-137649181(-)	2258	same
mir-224	MI0000301	chrX:150877706-150877786(-)	GABRE	chrX:150872252-150893807(-)	2564	same
mir-452	MI0001733	chrX:150878756-150878840(-)	GABRE	chrX:150872252-150893807(-)	2564	same
mir-105-1	MI0000111	chrX:151311347-151311427(-)	GABRA3	chrX:151086290-151370487(-)	2556	same
mir-767	MI0003763	chrX:151312549-151312657(-)	GABRA3	chrX:151086290-151370487(-)	2556	same
mir-105-2	MI0000112	chrX:151313540-151313620(-)	GABRA3	chrX:151086290-151370487(-)	2556	same
mir-1184	MI0006277	chrX:153768829-153768927(-)	F8	chrX:153717260-153904192(-)	2157	same
mir-1184	MI0006277	chrX:153768829-153768927(-)	F8A1	chrX:153767829-153769530(+)	8263	different
mir-1184	MI0006277	chrX:154265943-154266041(-)	F8A2	chrX:154264958-154266073(+)	474383	different
mir-1184	MI0006277	chrX:154340372-154340470(+)	F8A3	chrX:154340340-154341455(-)	474384	different
mir-1308	MI0006441	chrX:21990180-21990233(-)	PHEX	chrX:21960842-22176399(+)	5251	different
mir-548f-5	MI0006378	chrX:32569512-32569597(-)	DMD	chrX:31047266-33267647(-)	1756	same
mir-98	MI0000100	chrX:53599909-53600027(-)	HUWE1	chrX:53576476-53697776(-)	10075	same
let-7f-2	MI0000068	chrX:53600878-53600960(-)	HUWE1	chrX:53576476-53697776(-)	10075	same
mir-548i-4	MI0006424	chrX:83367416-83367492(-)	RPS6KA6	chrX:83205640-84362350(-)	27330	same
mir-361	MI0000760	chrX:85045297-85045368(-)	CHM	chrX:85002841-85189222(-)	1121	same

Supplemental Table 2: A list of pre-miRNAs in the CNV regions

Supplemental Table 2: A list of pre-miRNAs in the CNV regions

pre-miRNA ID	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-200b	MI0000342	chr1:1092347-1092441(+)	Variation_30362	chr1:702445-1697636	11 gains
mir-200b	MI0000342	chr1:1092347-1092441(+)	Variation_0001	chr1:1083805-1283805	1 loss
mir-200a	MI0000737	chr1:1093106-1093195(+)	Variation_30362	chr1:702445-1697636	11 gains
mir-200a	MI0000737	chr1:1093106-1093195(+)	Variation_0001	chr1:1083805-1283805	1 loss
mir-429	MI0001641	chr1:1094248-1094330(+)	Variation_30362	chr1:702445-1697636	11 gains
mir-429	MI0001641	chr1:1094248-1094330(+)	Variation_0001	chr1:1083805-1283805	1 loss
mir-320b-1	MI0003776	chr1:117015894-117015972(+)	Variation_4243	chr1:116927828-117128034	11 gains
mir-320b-1	MI0003776	chr1:117015894-117015972(+)	Variation_3307	chr1:116966438-117076198	N.A.
mir-92b	MI0003560	chr1:153431592-153431687(+)	Variation_3315	chr1:153361602-153581431	N.A.
mir-92b	MI0003560	chr1:153431592-153431687(+)	Variation_4257	chr1:153361603-153541655	6 losses
mir-555	MI0003561	chr1:153582765-153582860(-)	Variation_6789	chr1:153489907-154184585	39 losses
mir-556	MI0003562	chr1:160578960-160579054(+)	Variation_8336	chr1:160355955-160643940	1 gain
mir-556	MI0003562	chr1:160578960-160579054(+)	Variation_9377	chr1:160343145-160612442	1 gain
mir-556	MI0003562	chr1:160578960-160579054(+)	Variation_2330	chr1:160331092-160626632	3 gains
mir-556	MI0003562	chr1:160578960-160579054(+)	Variation_2330	chr1:160331092-160626632	3 gains
mir-556	MI0003562	chr1:160578960-160579054(+)	Variation_3317	chr1:160342772-160769980	N.A.
mir-1255b-2	MI0006436	chr1:166234522-166234588(+)	Variation_6794	chr1:166061707-166456848	5 losses
mir-557	MI0003563	chr1:166611386-166611483(+)	Variation_4261	chr1:166445800-166619686	2 gains, 1 loss
mir-1302-2	MI0006363	chr1:20229-20366(+)	Variation_2041	chr1:17845-167209	14 gains
mir-1302-2	MI0006363	chr1:20229-20366(+)	Variation_30360	chr1:1794-115824	25 gains
mir-1302-2	MI0006363	chr1:20229-20366(+)	Variation_3274	chr1:377-988150	N.A.
mir-1302-2	MI0006363	chr1:20229-20366(+)	Variation_0675	chr1:17845-167209	1 loss
mir-320b-2	MI0003839	chr1:222511329-222511466(-)	Variation_31690	chr1:222450467-222712973	1 loss
mir-551a	MI0003556	chr1:3467119-3467214(-)	Variation_3278	chr1:3278798-3538713	N.A.
mir-551a	MI0003556	chr1:3467119-3467214(-)	Variation_29824	chr1:3284282-3497721	1 loss
mir-551a	MI0003556	chr1:3467119-3467214(-)	Variation_29825	chr1:3358003-3539057	1 loss
mir-1977	MI0009987	chr1:556050-556128(-)	Variation_37560	chr1:554340-696231	1 gain
mir-1977	MI0009987	chr1:556050-556128(-)	Variation_37599	chr1:554340-696231	1 gain
mir-1977	MI0009987	chr1:556050-556128(-)	Variation_2294	chr1:77822-1008567	4 gains, 1 loss
mir-1977	MI0009987	chr1:556050-556128(-)	Variation_3274	chr1:377-988150	N.A.
mir-1977	MI0009987	chr1:556050-556128(-)	Variation_31594	chr1:346077-623339	30 losses
mir-1977	MI0009987	chr1:556050-556128(-)	Variation_4190	chr1:529118-646613	8 losses
mir-34a	MI0000268	chr1:9134314-9134423(-)	Variation_5198	chr1:9089163-9197219	1 gain
mir-1302-3	MI0006364	chr2:114057006-114057143(-)	Variation_31000	chr2:114046446-114075552	5 gains
mir-1302-3	MI0006364	chr2:114057006-114057143(-)	Variation_3386	chr2:113968415-114145148	N.A.

Supplemental Table 2: A list of pre-miRNAs in the CNV regions

pre-miRNA	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-663b	MI0006336	chr2:132731009-132731123(-)	Variation_7231	chr2:132489782-132765542	10 gains, 1 loss
mir-663b	MI0006336	chr2:132731009-132731123(-)	Variation_31014	chr2:132726460-132763489	19 gains
mir-663b	MI0006336	chr2:132731009-132731123(-)	Variation_3393	chr2:130063308-132914473	N.A.
mir-128-1	MI0000447	chr2:136139437-136139518(+)	Variation_47933	chr2:135766452-136254422	6 losses
mir-1978	MI0009988	chr2:149355835-149355887(-)	Variation_8391	chr2:148867828-149813849	1 gain
mir-1244	MI0006379	chr2:232286268-232286352(+)	Variation_3408	chr2:232245069-232714102	N.A.
mir-1244	MI0006379	chr2:232286268-232286352(+)	Variation_3408	chr2:232245069-232714102	N.A.
mir-1471	MI0007076	chr2:232465196-232465252(-)	Variation_3408	chr2:232245069-232714102	N.A.
mir-1471	MI0007076	chr2:232465196-232465252(-)	Variation_3408	chr2:232245069-232714102	N.A.
mir-149	MI0000478	chr2:241044091-241044179(+)	Variation_2428	chr2:241039698-241158385	1 gain
mir-149	MI0000478	chr2:241044091-241044179(+)	Variation_3409	chr2:241013794-241237544	N.A.
mir-1301	MI0003815	chr2:25405013-25405094(-)	Variation_7259	chr2:25140708-25462320	2 losses
mir-558	MI0003564	chr2:32610724-32610817(+)	Variation_5202	chr2:32532164-33063930	1 gain
mir-558	MI0003564	chr2:32610724-32610817(+)	Variation_5203	chr2:32265834-33054085	1 gain
mir-558	MI0003564	chr2:32610724-32610817(+)	Variation_8367	chr2:32392740-33185053	1 gain
mir-217	MI0000293	chr2:56063606-56063715(-)	Variation_3358	chr2:56031943-56325898	N.A.
mir-217	MI0000293	chr2:56063606-56063715(-)	Variation_3358	chr2:56031943-56325898	N.A.
mir-217	MI0000293	chr2:56063606-56063715(-)	Variation_3358	chr2:56031943-56325898	N.A.
mir-216a	MI0000292	chr2:56069589-56069698(-)	Variation_3358	chr2:56031943-56325898	N.A.
mir-216a	MI0000292	chr2:56069589-56069698(-)	Variation_3358	chr2:56031943-56325898	N.A.
mir-216a	MI0000292	chr2:56069589-56069698(-)	Variation_3358	chr2:56031943-56325898	N.A.
mir-216a	MI0000292	chr2:56069589-56069698(-)	Variation_3358	chr2:56031943-56325898	N.A.
mir-216b	MI0005569	chr2:56081353-56081434(-)	Variation_3358	chr2:56031943-56325898	N.A.
mir-216b	MI0005569	chr2:56081353-56081434(-)	Variation_3358	chr2:56031943-56325898	N.A.
mir-216b	MI0005569	chr2:56081353-56081434(-)	Variation_3358	chr2:56031943-56325898	N.A.
mir-1280	MI0006437	chr3:129563698-129563791(+)	Variation_3447	chr3:129540383-129920507	N.A.
mir-1280	MI0006437	chr3:129563698-129563791(+)	Variation_30181	chr3:129529333-129642049	1 loss
mir-1263	MI0006398	chr3:165371953-165372038(-)	Variation_3462	chr3:165085143-165392754	N.A.
mir-1263	MI0006398	chr3:165371953-165372038(-)	Variation_0038	chr3:165317569-165466432	1 loss
mir-1224	MI0003764	chr3:185441887-185441971(+)	Variation_4364	chr3:185337138-185502784	3 losses
mir-1248	MI0006383	chr3:187987155-187987260(+)	Variation_3467	chr3:187819828-188050020	N.A.
mir-1248	MI0006383	chr3:187987155-187987260(+)	Variation_47856	chr3:187897578-188237424	1 loss
mir-570	MI0003577	chr3:196911452-196911548(+)	Variation_7399	chr3:196904378-196963502	15 gains, 20 losses
mir-570	MI0003577	chr3:196911452-196911548(+)	Variation_2491	chr3:196584076-196965419	188 gains
mir-570	MI0003577	chr3:196911452-196911548(+)	Variation_0696	chr3:196902846-197038755	2 gains, 2 losses
mir-570	MI0003577	chr3:196911452-196911548(+)	Variation_31136	chr3:196905807-196933793	2 gains
mir-570	MI0003577	chr3:196911452-196911548(+)	Variation_2064	chr3:196902846-197038755	27 gains, 12 losses
mir-570	MI0003577	chr3:196911452-196911548(+)	Variation_3472	chr3:196864664-197555990	N.A.

Supplemental Table 2: A list of pre-miRNAs in the CNV regions

pre-miRNA ID	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-570	MI0003577	chr3:196911452-196911548(+)	Variation_32549	chr3:196767501-196963423	24 losses
mir-570	MI0003577	chr3:196911452-196911548(+)	Variation_4366	chr3:196904545-197074094	5 losses
mir-922	MI0005714	chr3:198885764-198885844(-)	Variation_3473	chr3:198339450-198982265	N.A.
mir-922	MI0005714	chr3:198885764-198885844(-)	Variation_4370	chr3:198817671-198982265	4 losses
mir-26a-1	MI0000083	chr3:37985899-37985975(+)	Variation_3425	chr3:37806487-38079228	N.A.
mir-566	MI0003572	chr3:50185763-50185856(+)	Variation_3429	chr3:50173482-50346381	N.A.
mir-566	MI0003572	chr3:50185763-50185856(+)	Variation_4335	chr3:50173490-50368468	18 losses
mir-566	MI0003572	chr3:50185763-50185856(+)	Variation_30175	chr3:50133778-50230309	2 losses
let-7g	MI0000433	chr3:52277334-52277417(-)	Variation_4337	chr3:52154023-52310861	3 gains
mir-135a-1	MI0000452	chr3:52303275-52303364(-)	Variation_4337	chr3:52154023-52310861	3 gains
mir-135a-1	MI0000452	chr3:52303275-52303364(-)	Variation_4338	chr3:52292518-52454577	6 losses
mir-1324	MI0006657	chr3:75762604-75762699(+)	Variation_2462	chr3:75474768-76085726	3 gains, 13 losses
mir-1324	MI0006657	chr3:75762604-75762699(+)	Variation_3434	chr3:75698633-76160982	N.A.
mir-1324	MI0006657	chr3:75762604-75762699(+)	Variation_5367	chr3:75332778-75935986	1 loss
mir-1324	MI0006657	chr3:75762604-75762699(+)	Variation_8986	chr3:75475063-75858773	2 losses
mir-1324	MI0006657	chr3:75762604-75762699(+)	Variation_32497	chr3:75745040-75900650	7 losses
mir-577	MI0003584	chr4:115797364-115797459(+)	Variation_8451	chr4:115508845-115839119	1 gain
mir-577	MI0003584	chr4:115797364-115797459(+)	Variation_3508	chr4:115561528-115809774	N.A.
mir-218-1	MI0000294	chr4:20138996-20139105(+)	Variation_4380	chr4:20111993-20290054	9 gains, 18 losses
mir-571	MI0003578	chr4:333946-334041(+)	Variation_2066	chr4:248197-418202	5 losses
mir-95	MI0000097	chr4:8057928-8058008(-)	Variation_4374	chr4:8042806-8202167	1 gain
mir-95	MI0000097	chr4:8057928-8058008(-)	Variation_4373	chr4:8009599-8099960	10 losses
mir-95	MI0000097	chr4:8057928-8058008(-)	Variation_47968	chr4:7838836-8223391	9 losses
mir-548i-2	MI0006422	chr4:9166887-9167035(-)	Variation_9470	chr4:8980214-9329079	1 gain
mir-548i-2	MI0006422	chr4:9166887-9167035(-)	Variation_37604	chr4:9089333-9195862	1 gain
mir-548i-2	MI0006422	chr4:9166887-9167035(-)	Variation_2497	chr4:8756821-9420903	17 gains, 2 losses
mir-548i-2	MI0006422	chr4:9166887-9167035(-)	Variation_0699	chr4:9010036-9203157	2 gains, 11 losses
mir-548i-2	MI0006422	chr4:9166887-9167035(-)	Variation_34433	chr4:8990916-9290749	2 gains
mir-548i-2	MI0006422	chr4:9166887-9167035(-)	Variation_3479	chr4:8573073-9882877	N.A.
mir-548i-2	MI0006422	chr4:9166887-9167035(-)	Variation_2069	chr4:9010036-9203157	42 losses
mir-548f-3	MI0006376	chr5:109877429-109877515(-)	Variation_3571	chr5:109669759-110056060	N.A.
mir-548f-3	MI0006376	chr5:109877429-109877515(-)	Variation_2594	chr5:109778421-110180038	1 loss
mir-548f-3	MI0006376	chr5:109877429-109877515(-)	Variation_9023	chr5:109793062-110093410	1 loss
mir-548f-3	MI0006376	chr5:109877429-109877515(-)	Variation_10127	chr5:109783199-110084156	1 loss
mir-886	MI0005527	chr5:135444076-135444196(-)	Variation_3577	chr5:135193500-135502898	N.A.
mir-1229	MI0006319	chr5:179157884-179157952(-)	Variation_0068	chr5:179108621-179268202	1 loss
mir-579	MI0003586	chr5:32430241-32430338(-)	Variation_3552	chr5:32281118-32774401	N.A.

Supplemental Table 2: A list of pre-miRNAs in the CNV regions

pre-miRNA	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-1974	MI0009984	chr5:93930928-93930997(-)	Variation_32729	chr5:93929215-93931984	17 losses
mir-583	MI0003590	chr5:95440598-95440672(+)	Variation_2584	chr5:95329992-95565292	1 gain
mir-583	MI0003590	chr5:95440598-95440672(+)	Variation_8491	chr5:95336741-95478080	1 gain
mir-583	MI0003590	chr5:95440598-95440672(+)	Variation_3562	chr5:95257462-95566189	N.A.
mir-1236	MI0006326	chr6:32032595-32032696(-)	Variation_3602	chr6:31979491-32317091	N.A.
mir-1236	MI0006326	chr6:32032595-32032696(-)	Variation_4492	chr6:31995533-32055579	36 losses
mir-548o	MI0006402	chr7:101833194-101833307(-)	Variation_3693	chr7:101687460-101859452	N.A.
mir-548o	MI0006402	chr7:101833194-101833307(-)	Variation_4553	chr7:101767725-102083105	42 losses
mir-129-1	MI0000252	chr7:127635161-127635232(+)	Variation_7600	chr7:127587300-127716539	1 gain
mir-153-2	MI0000464	chr7:157059789-157059875(-)	Variation_3715	chr7:157043116-157306239	N.A.
mir-1183	MI0006276	chr7:21477201-21477289(+)	Variation_4527	chr7:21455625-21654541	20 gains
mir-589	MI0003599	chr7:5501976-5502074(-)	Variation_4524	chr7:5431459-5671684	5 losses
mir-25	MI0000082	chr7:99529119-99529202(-)	Variation_2104	chr7:99410498-99593067	4 losses
mir-93	MI0000095	chr7:99529327-99529406(-)	Variation_2104	chr7:99410498-99593067	4 losses
mir-106b	MI0000734	chr7:99529552-99529633(-)	Variation_2104	chr7:99410498-99593067	4 losses
mir-599	MI0003611	chr8:100618040-100618134(-)	Variation_3744	chr8:100473327-100907800	N.A.
mir-599	MI0003611	chr8:100618040-100618134(-)	Variation_3744	chr8:100473327-100907800	N.A.
mir-875	MI0005541	chr8:100618190-100618265(-)	Variation_3744	chr8:100473327-100907800	N.A.
mir-875	MI0005541	chr8:100618190-100618265(-)	Variation_3744	chr8:100473327-100907800	N.A.
mir-1204	MI0006337	chr8:128877390-128877456(+)	Variation_8615	chr8:128714000-128977143	1 gain
mir-1204	MI0006337	chr8:128877390-128877456(+)	Variation_4609	chr8:128784031-128957168	4 losses
mir-661	MI0003669	chr8:145091347-145091435(-)	Variation_30307	chr8:145064090-145195417	1 loss
mir-661	MI0003669	chr8:145091347-145091435(-)	Variation_30306	chr8:145064090-145715426	2 losses
mir-661	MI0003669	chr8:145091347-145091435(-)	Variation_30305	chr8:145064090-145484560	3 losses
mir-661	MI0003669	chr8:145091347-145091435(-)	Variation_30303	chr8:145064090-145153236	5 losses
mir-661	MI0003669	chr8:145091347-145091435(-)	Variation_30304	chr8:145064090-145247516	8 losses
mir-939	MI0005761	chr8:145590172-145590253(-)	Variation_3752	chr8:145494501-145668486	N.A.
mir-939	MI0005761	chr8:145590172-145590253(-)	Variation_3752	chr8:145494501-145668486	N.A.
mir-939	MI0005761	chr8:145590172-145590253(-)	Variation_4613	chr8:145536611-145740218	16 losses
mir-939	MI0005761	chr8:145590172-145590253(-)	Variation_30306	chr8:145064090-145715426	2 losses
mir-1234	MI0006324	chr8:145596284-145596367(-)	Variation_3752	chr8:145494501-145668486	N.A.
mir-1234	MI0006324	chr8:145596284-145596367(-)	Variation_3752	chr8:145494501-145668486	N.A.
mir-1234	MI0006324	chr8:145596284-145596367(-)	Variation_4613	chr8:145536611-145740218	16 losses
mir-1234	MI0006324	chr8:145596284-145596367(-)	Variation_30306	chr8:145064090-145715426	2 losses
mir-383	MI0000791	chr8:14755318-14755390(-)	Variation_1771	chr8:14681135-15426553	N.A.
mir-383	MI0000791	chr8:14755318-14755390(-)	Variation_3722	chr8:14721071-15809077	N.A.
mir-383	MI0000791	chr8:14755318-14755390(-)	Variation_1447	chr8:14741501-14763659	1 loss

Supplemental Table 2: A list of pre-miRNAs in the CNV regions

pre-miRNA	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-383	MI0000791	chr8:14755318-14755390(-)	Variation_2122	chr8:14724716-14893465	15 losses
mir-383	MI0000791	chr8:14755318-14755390(-)	Variation_2741	chr8:14670571-15719081	2 losses
mir-383	MI0000791	chr8:14755318-14755390(-)	Variation_9086	chr8:14675298-15708398	2 losses
mir-383	MI0000791	chr8:14755318-14755390(-)	Variation_10244	chr8:14675272-15704610	2 losses
mir-383	MI0000791	chr8:14755318-14755390(-)	Variation_33013	chr8:14675524-15704951	7 losses
mir-320a	MI0000542	chr8:22158420-22158501(-)	Variation_3726	chr8:20577324-23167554	N.A.
mir-320a	MI0000542	chr8:22158420-22158501(-)	Variation_2746	chr8:21729708-22858325	1 loss
mir-548i-3	MI0006423	chr8:7983873-7984021(-)	Variation_8593	chr8:7222992-8183341	1 gain
mir-548i-3	MI0006423	chr8:7983873-7984021(-)	Variation_0737	chr8:7735038-8024983	1 gain
mir-548i-3	MI0006423	chr8:7983873-7984021(-)	Variation_34453	chr8:7727730-8183341	2 gains
mir-548i-3	MI0006423	chr8:7983873-7984021(-)	Variation_2116	chr8:7917018-8067760	25 gains, 34 losses
mir-548i-3	MI0006423	chr8:7983873-7984021(-)	Variation_2117	chr8:7735038-8024983	4 gains, 19 losses
mir-548i-3	MI0006423	chr8:7983873-7984021(-)	Variation_34519	chr8:7222990-8238782	4 gains
mir-548i-3	MI0006423	chr8:7983873-7984021(-)	Variation_0739	chr8:7917018-8067760	5 gains, 17 losses
mir-548i-3	MI0006423	chr8:7983873-7984021(-)	Variation_0296	chr8:6871616-8212038	8 gains
mir-548i-3	MI0006423	chr8:7983873-7984021(-)	Variation_2732	chr8:6908814-8183341	9 gains, 14 losses
mir-548i-3	MI0006423	chr8:7983873-7984021(-)	Variation_3719	chr8:6719130-8344153	N.A.
mir-548i-3	MI0006423	chr8:7983873-7984021(-)	Variation_0738	chr8:7873159-8024984	1 loss
mir-548i-3	MI0006423	chr8:7983873-7984021(-)	Variation_9081	chr8:7278542-8208881	1 loss
mir-548i-3	MI0006423	chr8:7983873-7984021(-)	Variation_2118	chr8:7873159-8024984	10 losses
mir-455	MI0003513	chr9:116011535-116011630(+)	Variation_5263	chr9:115851115-116406464	1 gain
mir-455	MI0003513	chr9:116011535-116011630(+)	Variation_5264	chr9:115832765-116394683	1 gain
mir-126	MI0000471	chr9:138684875-138684959(+)	Variation_7732	chr9:138680837-138688363	1 gain
mir-126	MI0000471	chr9:138684875-138684959(+)	Variation_31535	chr9:138521027-138773928	1 gain
mir-126	MI0000471	chr9:138684875-138684959(+)	Variation_3785	chr9:138370650-138946306	N.A.
mir-126	MI0000471	chr9:138684875-138684959(+)	Variation_5415	chr9:138598408-139364371	1 loss
mir-126	MI0000471	chr9:138684875-138684959(+)	Variation_30355	chr9:138374138-138776337	1 loss
mir-126	MI0000471	chr9:138684875-138684959(+)	Variation_30357	chr9:138633359-138762781	1 loss
mir-126	MI0000471	chr9:138684875-138684959(+)	Variation_30358	chr9:138654524-138710754	1 loss
mir-126	MI0000471	chr9:138684875-138684959(+)	Variation_30359	chr9:138654524-138943491	1 loss
mir-126	MI0000471	chr9:138684875-138684959(+)	Variation_30350	chr9:138374138-139070172	2 losses
mir-126	MI0000471	chr9:138684875-138684959(+)	Variation_30351	chr9:138515294-138741845	2 losses
mir-126	MI0000471	chr9:138684875-138684959(+)	Variation_30352	chr9:138603775-138702976	2 losses
mir-126	MI0000471	chr9:138684875-138684959(+)	Variation_30348	chr9:138619531-138690438	4 losses
mir-1302-2	MI0006363	chr9:20144-20281(+)	Variation_31460	chr9:2044-35316	5 gains
mir-1302-2	MI0006363	chr9:20144-20281(+)	Variation_33061	chr9:2044-38541	1 loss
mir-31	MI0000089	chr9:21502114-21502184(-)	Variation_2807	chr9:21489624-21516526	1 loss



**Supplemental Table 2: A list of pre-miRNAs in the CNV regions**

pre-miRNA	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-1299	MI0006359	chr9:68292059-68292141(-)	Variation_2819	chr9:67023497-70216846	1 gain
mir-1299	MI0006359	chr9:68292059-68292141(-)	Variation_2144	chr9:67627819-68779114	2 gains, 1 loss
mir-1299	MI0006359	chr9:68292059-68292141(-)	Variation_3770	chr9:65207500-70343347	N.A.
mir-1299	MI0006359	chr9:68292059-68292141(-)	Variation_22958	chr9:67924405-70025289	1 loss
mir-1299	MI0006359	chr9:68292059-68292141(-)	Variation_23255	chr9:67923848-70025523	1 loss
mir-1299	MI0006359	chr9:68292059-68292141(-)	Variation_23255	chr9:67923848-70025523	1 loss
mir-1299	MI0006359	chr9:68292059-68292141(-)	Variation_2146	chr9:68072566-68403907	3 losses
mir-1299	MI0006359	chr9:68292059-68292141(-)	Variation_7748	chr9:68173261-70091682	4 losses
mir-7-1	MI0000263	chr9:85774483-85774592(-)	Variation_31520	chr9:85660189-85782828	1 gain
mir-7-1	MI0000263	chr9:85774483-85774592(-)	Variation_3773	chr9:85603844-85793422	N.A.
let-7a-1	MI0000060	chr9:95978060-95978139(+)	Variation_4645	chr9:95873863-96081830	18 gains
let-7f-1	MI0000067	chr9:95978450-95978536(+)	Variation_4645	chr9:95873863-96081830	18 gains
let-7d	MI0000065	chr9:95980937-95981023(+)	Variation_4645	chr9:95873863-96081830	18 gains
mir-608	MI0003621	chr10:102724732-102724831(+)	Variation_4711	chr10:102666924-102848009	7 losses
mir-202	MI0003130	chr10:134911006-134911115(-)	Variation_5272	chr10:134853407-135114035	1 gain
mir-202	MI0003130	chr10:134911006-134911115(-)	Variation_5273	chr10:134853407-135114035	1 gain
mir-202	MI0003130	chr10:134911006-134911115(-)	Variation_4722	chr10:134807090-134984241	1 gain
mir-202	MI0003130	chr10:134911006-134911115(-)	Variation_30525	chr10:134885815-134918923	11 gains
mir-202	MI0003130	chr10:134911006-134911115(-)	Variation_2896	chr10:134868158-135282675	20 gains, 1 loss
mir-202	MI0003130	chr10:134911006-134911115(-)	Variation_3829	chr10:134694412-135072292	N.A.
mir-202	MI0003130	chr10:134911006-134911115(-)	Variation_29879	chr10:134850149-134936370	1 loss
mir-202	MI0003130	chr10:134911006-134911115(-)	Variation_4721	chr10:134753003-135031726	13 losses
mir-202	MI0003130	chr10:134911006-134911115(-)	Variation_29878	chr10:134903011-135073008	2 losses
mir-202	MI0003130	chr10:134911006-134911115(-)	Variation_4723	chr10:134825203-134931158	9 losses
mir-1265	MI0006401	chr10:14518581-14518666(+)	Variation_47859	chr10:14426301-14833838	2 losses
mir-511-1	MI0003127	chr10:17927113-17927199(+)	Variation_6855	chr10:17922308-17931734	2 gains
mir-604	MI0003617	chr10:29873939-29874032(-)	Variation_4673	chr10:29843746-30010541	3 losses
mir-938	MI0005760	chr10:29931199-29931281(-)	Variation_4673	chr10:29843746-30010541	3 losses
mir-548f-1	MI0006374	chr10:56037640-56037723(-)	Variation_9154	chr10:54402561-56985141	1 loss
mir-1254	MI0006388	chr10:70189081-70189177(+)	Variation_3808	chr10:70127725-70301318	N.A.
mir-606	MI0003619	chr10:76982222-76982317(+)	Variation_3810	chr10:76904943-77122607	N.A.
mir-675	MI0005416	chr11:1974565-1974637(-)	Variation_29893	chr11:1813688-2014222	1 loss
mir-675	MI0005416	chr11:1974565-1974637(-)	Variation_29893	chr11:1813688-2014222	1 loss
mir-675	MI0005416	chr11:1974565-1974637(-)	Variation_29891	chr11:1941703-2014222	2 losses
mir-675	MI0005416	chr11:1974565-1974637(-)	Variation_29891	chr11:1941703-2014222	2 losses
mir-210	MI0000286	chr11:558089-558198(-)	Variation_3831	chr11:399846-1313968	N.A.
mir-210	MI0000286	chr11:558089-558198(-)	Variation_29882	chr11:368188-631190	1 loss

**Supplemental Table 2: A list of pre-miRNAs in the CNV regions**

pre-miRNA	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-210	MI0000286	chr11:558089-558198(-)	Variation_29883	chr11:368188-860446	1 loss
mir-210	MI0000286	chr11:558089-558198(-)	Variation_29884	chr11:539119-700558	1 loss
mir-130a	MI0000448	chr11:57165247-57165335(+)	Variation_4744	chr11:57055930-57237626	3 gains
mir-612	MI0003625	chr11:64968505-64968604(+)	Variation_5423	chr11:64769870-65011116	1 loss
mir-619	MI0003633	chr12:107754813-107754911(-)	Variation_5312	chr12:107710583-108040548	1 gain
mir-620	MI0003634	chr12:115070748-115070842(-)	Variation_4787	chr12:114960308-115132869	6 losses
mir-196a-2	MI0000279	chr12:52671789-52671898(+)	Variation_3890	chr12:52633336-52820913	N.A.
mir-196a-2	MI0000279	chr12:52671789-52671898(+)	Variation_3890	chr12:52633336-52820913	N.A.
mir-615	MI0003628	chr12:52714001-52714096(+)	Variation_3890	chr12:52633336-52820913	N.A.
mir-615	MI0003628	chr12:52714001-52714096(+)	Variation_3890	chr12:52633336-52820913	N.A.
mir-616	MI0003629	chr12:56199213-56199309(-)	Variation_3891	chr12:56116000-56288135	N.A.
let-7i	MI0000434	chr12:61283733-61283816(+)	Variation_0311	chr12:61080571-61294231	1 loss
mir-1244	MI0006379	chr12:9283330-9283414(-)	Variation_3874	chr12:9262862-9814796	N.A.
mir-492	MI0003131	chr12:93752305-93752420(+)	Variation_5683	chr12:93743891-93753661	1 loss
mir-1251	MI0006386	chr12:96409818-96409887(+)	Variation_1926	chr12:96401144-96412948	N.A.
mir-622	MI0003636	chr13:89681437-89681532(+)	Variation_34606	chr13:89183845-89692546	2 losses
mir-770	MI0005118	chr14:100388480-100388577(+)	Variation_8776	chr14:100138042-100389000	1 gain
mir-203	MI0000283	chr14:103653495-103653604(+)	Variation_29960	chr14:103615037-103694442	4 losses
mir-624	MI0003638	chr14:30553603-30553699(-)	Variation_7031	chr14:29869974-30981496	2 losses
mir-1302-2	MI0006363	chr15:100318185-100318322(-)	Variation_35283	chr15:100317256-100330545	1 gain
mir-1302-2	MI0006363	chr15:100318185-100318322(-)	Variation_30727	chr15:100262624-100336759	15 gains
mir-1302-2	MI0006363	chr15:100318185-100318322(-)	Variation_32067	chr15:100276930-100336759	1 loss
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_8784	chr15:18427100-21405800	1 gain
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_8785	chr15:19112164-20773725	1 gain
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_8786	chr15:19464910-20089400	1 gain
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_37535	chr15:19767013-20093116	1 gain
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_37626	chr15:19767013-20093116	1 gain
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_34557	chr15:19821400-20089400	13 gains
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_8779	chr15:18427100-20089400	173 gains
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_8783	chr15:19181702-20329239	2 gains
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_30670	chr15:18458212-20092648	20 gains
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_34576	chr15:18427100-20414400	200 gains
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_3070	chr15:18403665-21241985	204 gains, 24 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_4874	chr15:19932331-20097557	23 gains, 6 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_8781	chr15:18427100-20421205	23 gains
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_4873	chr15:19849582-20046356	25 gains, 1 loss
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_34504	chr15:18427100-20773725	3 gains

**Supplemental Table 2: A list of pre-miRNAs in the CNV regions**

pre-miRNA	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_8782	chr15:19821400-20089400	5 gains
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_7046	chr15:18657417-20249915	7 gains, 60 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_34545	chr15:19111608-20089400	7 gains
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_3951	chr15:18263733-21365850	N.A.
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_9256	chr15:19272564-20773725	1 loss
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_34665	chr15:18427103-20421204	164 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_0318	chr15:18526971-20225830	18 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_9251	chr15:18427100-20773725	18 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_9249	chr15:19821421-20089383	19 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_34607	chr15:19336725-20089383	2 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_34608	chr15:18427103-20773725	2 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_31980	chr15:18431801-20197782	25 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_4875	chr15:19970520-20094181	4 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_9252	chr15:19821421-20329239	4 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_34643	chr15:19821421-20089383	4 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_9254	chr15:19139652-20329239	5 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_34663	chr15:18682600-20089383	70 losses
mir-1268	MI0006405	chr15:20014593-20014644(-)	Variation_9250	chr15:18427103-20089400	76 losses
mir-211	MI0000287	chr15:29144527-29144636(-)	Variation_7057	chr15:28970616-29258315	5 losses
mir-1233	MI0006323	chr15:32461562-32461643(-)	Variation_30705	chr15:32461525-32663325	26 gains
mir-1233	MI0006323	chr15:32461562-32461643(-)	Variation_7058	chr15:29769358-32654590	47 gains, 48 losses
mir-1233	MI0006323	chr15:32461562-32461643(-)	Variation_3076	chr15:32447708-32687764	7 gains, 51 losses
mir-1233	MI0006323	chr15:32461562-32461643(-)	Variation_3957	chr15:32330313-32775539	N.A.
mir-1233	MI0006323	chr15:32461562-32461643(-)	Variation_3957	chr15:32330313-32775539	N.A.
mir-1233	MI0006323	chr15:32461562-32461643(-)	Variation_29976	chr15:32439975-32587886	1 loss
mir-1233	MI0006323	chr15:32461562-32461643(-)	Variation_2192	chr15:32431850-32641325	34 losses
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_0784	chr15:32518465-32669922	16 gains
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_30705	chr15:32461525-32663325	26 gains
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_7058	chr15:29769358-32654590	47 gains, 48 losses
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_3076	chr15:32447708-32687764	7 gains, 51 losses
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_3957	chr15:32330313-32775539	N.A.
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_3957	chr15:32330313-32775539	N.A.
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_0455	chr15:32472522-32628056	1 loss
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_9264	chr15:32564059-32772283	1 loss
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_35311	chr15:32472522-32628056	1 loss
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_0322	chr15:32481879-32652370	3 losses
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_2192	chr15:32431850-32641325	34 losses

Supplemental Table 2: A list of pre-miRNAs in the CNV regions

pre-miRNA	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_34645	chr15:32564059-32765105	4 losses
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_2193	chr15:32518465-32669922	5 losses
mir-1233	MI0006323	chr15:32607783-32607864(-)	Variation_4896	chr15:32496805-32698463	5 losses
mir-627	MI0003641	chr15:40279060-40279156(-)	Variation_0785	chr15:40121667-40290274	1 gain
mir-1282	MI0006429	chr15:41873149-41873249(-)	Variation_3960	chr15:41610450-41935933	N.A.
mir-630	MI0003644	chr15:70666612-70666708(+)	Variation_3967	chr15:70606839-70907613	N.A.
mir-630	MI0003644	chr15:70666612-70666708(+)	Variation_0189	chr15:70606852-70796524	1 loss
mir-184	MI0000481	chr15:77289185-77289268(+)	Variation_3970	chr15:77142292-77305824	N.A.
mir-1972	MI0009982	chr16:15011679-15011755(-)	Variation_7088	chr16:14817728-15032941	9 gains
mir-1972	MI0009982	chr16:15011679-15011755(-)	Variation_32088	chr16:14956281-15031429	11 losses
mir-1972	MI0009982	chr16:15011679-15011755(-)	Variation_37843	chr16:14897364-15016088	180 losses
mir-484	MI0002468	chr16:15644652-15644730(+)	Variation_2203	chr16:15601001-15767810	3 losses
mir-1225	MI0006311	chr16:2080197-2080286(-)	Variation_5329	chr16:1-2713166	1 gain
mir-1225	MI0006311	chr16:2080197-2080286(-)	Variation_30000	chr16:1985732-2085788	3 losses
mir-940	MI0005762	chr16:2261749-2261842(+)	Variation_5329	chr16:1-2713166	1 gain
mir-940	MI0005762	chr16:2261749-2261842(+)	Variation_30002	chr16:2161158-2307510	1 loss
mir-1826	MI0008194	chr16:33873009-33873093(+)	Variation_8825	chr16:33371600-34997000	1 gain
mir-1826	MI0008194	chr16:33873009-33873093(+)	Variation_7106	chr16:33843007-34316965	2 gains
mir-1826	MI0008194	chr16:33873009-33873093(+)	Variation_30782	chr16:33852389-33874106	9 gains
mir-1826	MI0008194	chr16:33873009-33873093(+)	Variation_4002	chr16:31658070-34224164	N.A.
mir-138-2	MI0000455	chr16:55449931-55450014(+)	Variation_7119	chr16:55448509-55475034	1 loss
mir-1538	MI0007259	chr16:68157212-68157272(-)	Variation_39186	chr16:68120970-68159786	1 loss
mir-140	MI0000456	chr16:68524485-68524584(+)	Variation_4009	chr16:68412623-68870723	N.A.
mir-1972	MI0009982	chr16:68621750-68621826(+)	Variation_3123	chr16:68609885-68745051	1 gain
mir-1972	MI0009982	chr16:68621750-68621826(+)	Variation_4009	chr16:68412623-68870723	N.A.
mir-1972	MI0009982	chr16:68621750-68621826(+)	Variation_32129	chr16:68602755-68666385	6 losses
mir-1972	MI0009982	chr16:68621750-68621826(+)	Variation_4963	chr16:68598107-68799077	7 losses
mir-662	MI0003670	chr16:760184-760278(+)	Variation_5329	chr16:1-2713166	1 gain
mir-662	MI0003670	chr16:760184-760278(+)	Variation_30732	chr16:629070-793603	6 gains
mir-662	MI0003670	chr16:760184-760278(+)	Variation_3987	chr16:266993-1111069	N.A.
mir-662	MI0003670	chr16:760184-760278(+)	Variation_29986	chr16:619412-780770	1 loss
mir-662	MI0003670	chr16:760184-760278(+)	Variation_29983	chr16:510624-780770	5 losses
mir-548h-3	MI0006413	chr17:13387571-13387688(-)	Variation_47929	chr17:13254552-13718932	6 losses
mir-22	MI0000078	chr17:1563947-1564031(-)	Variation_32148	chr17:1549217-1629756	1 loss
mir-22	MI0000078	chr17:1563947-1564031(-)	Variation_30021	chr17:1558949-1598530	2 losses
mir-1180	MI0006273	chr17:19188412-19188480(-)	Variation_4994	chr17:18990988-19205701	2 gains, 1 loss
mir-1253	MI0006387	chr17:2598122-2598226(-)	Variation_4981	chr17:2555411-2633546	1 gain

Supplemental Table 2: A list of pre-miRNAs in the CNV regions

pre-miRNA	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-10a	MI0000266	chr17:44012199-44012308(-)	Variation_4040	chr17:43957672-44191836	N.A.
mir-10a	MI0000266	chr17:44012199-44012308(-)	Variation_4040	chr17:43957672-44191836	N.A.
mir-196a-1	MI0000238	chr17:44064851-44064920(-)	Variation_4040	chr17:43957672-44191836	N.A.
mir-196a-1	MI0000238	chr17:44064851-44064920(-)	Variation_4040	chr17:43957672-44191836	N.A.
mir-142	MI0000458	chr17:53763592-53763678(-)	Variation_4410	chr17:53667859-53853403	3 gains
mir-454	MI0003820	chr17:54569901-54570015(-)	Variation_4043	chr17:54437361-54780416	N.A.
mir-454	MI0003820	chr17:54569901-54570015(-)	Variation_4043	chr17:54437361-54780416	N.A.
mir-301a	MI0000745	chr17:54583279-54583364(-)	Variation_4043	chr17:54437361-54780416	N.A.
mir-301a	MI0000745	chr17:54583279-54583364(-)	Variation_4043	chr17:54437361-54780416	N.A.
mir-548d-2	MI0003671	chr17:62898067-62898163(-)	Variation_0806	chr17:62820089-62981367	1 gain
mir-657	MI0003681	chr17:76713671-76713768(-)	Variation_30032	chr17:76626941-76878755	1 loss
mir-657	MI0003681	chr17:76713671-76713768(-)	Variation_5036	chr17:76600967-76762177	13 losses
mir-338	MI0000814	chr17:76714278-76714344(-)	Variation_30032	chr17:76626941-76878755	1 loss
mir-338	MI0000814	chr17:76714278-76714344(-)	Variation_5036	chr17:76600967-76762177	13 losses
mir-1250	MI0006385	chr17:76721591-76721703(-)	Variation_30032	chr17:76626941-76878755	1 loss
mir-1250	MI0006385	chr17:76721591-76721703(-)	Variation_5036	chr17:76600967-76762177	13 losses
mir-1539	MI0007260	chr18:45267741-45267790(+)	Variation_35573	chr18:45251209-45272914	1 loss
mir-638	MI0003653	chr19:10690080-10690179(+)	Variation_5086	chr19:10650428-10814432	3 losses
mir-199a-1	MI0000242	chr19:10789102-10789172(-)	Variation_5087	chr19:10728678-10897044	11 losses
mir-199a-1	MI0000242	chr19:10789102-10789172(-)	Variation_5086	chr19:10650428-10814432	3 losses
mir-24-2	MI0000081	chr19:13808101-13808173(-)	Variation_5088	chr19:13697718-13923800	4 losses
mir-27a	MI0000085	chr19:13808254-13808331(-)	Variation_5088	chr19:13697718-13923800	4 losses
mir-23a	MI0000079	chr19:13808401-13808473(-)	Variation_5088	chr19:13697718-13923800	4 losses
mir-181c	MI0000271	chr19:13846513-13846622(+)	Variation_5088	chr19:13697718-13923800	4 losses
mir-181d	MI0003139	chr19:13846689-13846825(+)	Variation_5088	chr19:13697718-13923800	4 losses
mir-1909	MI0008330	chr19:1767158-1767237(-)	Variation_7191	chr19:1271267-1950204	13 gains, 10 losses
mir-1909	MI0008330	chr19:1767158-1767237(-)	Variation_30061	chr19:1758018-1810390	1 loss
mir-1909	MI0008330	chr19:1767158-1767237(-)	Variation_30062	chr19:1758018-2051346	1 loss
mir-1270	MI0006407	chr19:20371080-20371162(-)	Variation_4070	chr19:20321226-20637787	N.A.
mir-1270	MI0006407	chr19:20371080-20371162(-)	Variation_5443	chr19:20212706-20384170	1 loss
mir-1270	MI0006407	chr19:20371080-20371162(-)	Variation_35616	chr19:20362702-20521721	1 loss
mir-1270	MI0006407	chr19:20371080-20371162(-)	Variation_35617	chr19:20370872-20521031	1 loss
mir-1270	MI0006407	chr19:20371080-20371162(-)	Variation_3183	chr19:20360525-20566187	35 losses
mir-1227	MI0006316	chr19:2185061-2185148(-)	Variation_5067	chr19:2082210-2200763	15 losses
mir-1227	MI0006316	chr19:2185061-2185148(-)	Variation_5068	chr19:2138091-2323221	17 losses
mir-1302-2	MI0006363	chr19:22973-23110(+)	Variation_30879	chr19:11354-119972	20 gains
mir-641	MI0003656	chr19:45480290-45480388(-)	Variation_4080	chr19:45304260-45531360	N.A.

**Supplemental Table 2: A list of pre-miRNAs in the CNV regions**

pre-miRNA ID	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-220c	MI0005536	chr19:53755341-53755423(-)	Variation_10563	chr19:53705903-53769479	1 loss
mir-220c	MI0005536	chr19:53755341-53755423(-)	Variation_32261	chr19:53097718-55337070	18 losses
mir-150	MI0000479	chr19:54695854-54695937(-)	Variation_32261	chr19:53097718-55337070	18 losses
mir-150	MI0000479	chr19:54695854-54695937(-)	Variation_5111	chr19:54643858-54765745	25 losses
mir-150	MI0000479	chr19:54695854-54695937(-)	Variation_5110	chr19:54526058-54801852	4 losses
mir-99b	MI0000746	chr19:56887677-56887746(+)	Variation_30914	chr19:56880176-56897284	3 gains
mir-99b	MI0000746	chr19:56887677-56887746(+)	Variation_4085	chr19:56683708-56958587	N.A.
mir-99b	MI0000746	chr19:56887677-56887746(+)	Variation_4085	chr19:56683708-56958587	N.A.
mir-99b	MI0000746	chr19:56887677-56887746(+)	Variation_4085	chr19:56683708-56958587	N.A.
mir-99b	MI0000746	chr19:56887677-56887746(+)	Variation_32264	chr19:56881580-56901393	1 loss
let-7e	MI0000066	chr19:56887851-56887929(+)	Variation_30914	chr19:56880176-56897284	3 gains
let-7e	MI0000066	chr19:56887851-56887929(+)	Variation_4085	chr19:56683708-56958587	N.A.
let-7e	MI0000066	chr19:56887851-56887929(+)	Variation_4085	chr19:56683708-56958587	N.A.
let-7e	MI0000066	chr19:56887851-56887929(+)	Variation_4085	chr19:56683708-56958587	N.A.
let-7e	MI0000066	chr19:56887851-56887929(+)	Variation_32264	chr19:56881580-56901393	1 loss
mir-125a	MI0000469	chr19:56888319-56888404(+)	Variation_30914	chr19:56880176-56897284	3 gains
mir-125a	MI0000469	chr19:56888319-56888404(+)	Variation_4085	chr19:56683708-56958587	N.A.
mir-125a	MI0000469	chr19:56888319-56888404(+)	Variation_4085	chr19:56683708-56958587	N.A.
mir-125a	MI0000469	chr19:56888319-56888404(+)	Variation_4085	chr19:56683708-56958587	N.A.
mir-125a	MI0000469	chr19:56888319-56888404(+)	Variation_32264	chr19:56881580-56901393	1 loss
mir-935	MI0005757	chr19:59177373-59177463(+)	Variation_5115	chr19:59041022-59190183	5 losses
mir-663	MI0003672	chr20:26136822-26136914(-)	Variation_31037	chr20:26136626-26139184	10 gains
mir-663	MI0003672	chr20:26136822-26136914(-)	Variation_29708	chr20:25663507-26257255	2 gains
mir-663	MI0003672	chr20:26136822-26136914(-)	Variation_7302	chr20:26130045-26168912	3 gains
mir-663	MI0003672	chr20:26136822-26136914(-)	Variation_4098	chr20:25649992-26267569	N.A.
mir-663	MI0003672	chr20:26136822-26136914(-)	Variation_0225	chr20:26072000-26181848	1 loss
mir-1825	MI0008193	chr20:30289259-30289311(+)	Variation_5132	chr20:30174844-30352253	6 losses
mir-499	MI0003183	chr20:33041840-33041961(+)	Variation_5134	chr20:32979153-33164714	3 losses
mir-1257	MI0006391	chr20:59961997-59962113(-)	Variation_4105	chr20:59894657-60016638	N.A.
mir-1257	MI0006391	chr20:59961997-59962113(-)	Variation_35935	chr20:59936789-59973285	1 loss
mir-1257	MI0006391	chr20:59961997-59962113(-)	Variation_35936	chr20:59937699-59981429	1 loss
mir-1-1	MI0000651	chr20:60561958-60562028(+)	Variation_5347	chr20:60216284-60775837	1 gain
mir-1-1	MI0000651	chr20:60561958-60562028(+)	Variation_4106	chr20:60305165-60897092	N.A.
mir-1-1	MI0000651	chr20:60561958-60562028(+)	Variation_4106	chr20:60305165-60897092	N.A.
mir-1-1	MI0000651	chr20:60561958-60562028(+)	Variation_30131	chr20:60320976-60584935	1 loss
mir-133a-2	MI0000451	chr20:60572564-60572665(+)	Variation_5347	chr20:60216284-60775837	1 gain
mir-133a-2	MI0000451	chr20:60572564-60572665(+)	Variation_4106	chr20:60305165-60897092	N.A.

Supplemental Table 2: A list of pre-miRNAs in the CNV regions

pre-miRNA	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-133a-2	MI0000451	chr20:60572564-60572665(+)	Variation_4106	chr20:60305165-60897092	N.A.
mir-133a-2	MI0000451	chr20:60572564-60572665(+)	Variation_30131	chr20:60320976-60584935	1 loss
mir-124-3	MI0000445	chr20:61280297-61280383(+)	Variation_31044	chr20:60877832-61701456	2 gains
mir-124-3	MI0000445	chr20:61280297-61280383(+)	Variation_5146	chr20:61178258-61326392	29 losses
mir-124-3	MI0000445	chr20:61280297-61280383(+)	Variation_5147	chr20:61234049-61347722	70 losses
mir-941-1	MI0005763	chr20:62021238-62021326(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-1	MI0005763	chr20:62021238-62021326(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-1	MI0005763	chr20:62021238-62021326(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-1	MI0005763	chr20:62021238-62021326(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-1	MI0005763	chr20:62021238-62021326(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-2	MI0005764	chr20:62021545-62021633(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-2	MI0005764	chr20:62021545-62021633(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-2	MI0005764	chr20:62021545-62021633(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-2	MI0005764	chr20:62021545-62021633(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-2	MI0005764	chr20:62021545-62021633(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-2	MI0005764	chr20:62021545-62021633(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-3	MI0005765	chr20:62021657-62021745(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-3	MI0005765	chr20:62021657-62021745(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-3	MI0005765	chr20:62021657-62021745(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-3	MI0005765	chr20:62021657-62021745(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-941-3	MI0005765	chr20:62021657-62021745(+)	Variation_2252	chr20:61947227-62141109	3 gains
mir-1914	MI0008335	chr20:62043262-62043341(-)	Variation_2252	chr20:61947227-62141109	3 gains
mir-1914	MI0008335	chr20:62043262-62043341(-)	Variation_2252	chr20:61947227-62141109	3 gains
mir-1914	MI0008335	chr20:62043262-62043341(-)	Variation_2252	chr20:61947227-62141109	3 gains
mir-1914	MI0008335	chr20:62043262-62043341(-)	Variation_2252	chr20:61947227-62141109	3 gains
mir-1914	MI0008335	chr20:62043262-62043341(-)	Variation_2252	chr20:61947227-62141109	3 gains
mir-647	MI0003662	chr20:62044428-62044523(-)	Variation_2252	chr20:61947227-62141109	3 gains
mir-647	MI0003662	chr20:62044428-62044523(-)	Variation_2252	chr20:61947227-62141109	3 gains
mir-647	MI0003662	chr20:62044428-62044523(-)	Variation_2252	chr20:61947227-62141109	3 gains
mir-647	MI0003662	chr20:62044428-62044523(-)	Variation_2252	chr20:61947227-62141109	3 gains
mir-647	MI0003662	chr20:62044428-62044523(-)	Variation_2252	chr20:61947227-62141109	3 gains
mir-185	MI0000482	chr22:18400662-18400743(+)	Variation_31071	chr22:17399088-19383198	6 gains
mir-185	MI0000482	chr22:18400662-18400743(+)	Variation_30151	chr22:18386040-18412327	1 loss
mir-185	MI0000482	chr22:18400662-18400743(+)	Variation_30152	chr22:18386040-18426687	1 loss
mir-185	MI0000482	chr22:18400662-18400743(+)	Variation_2261	chr22:18259187-18435258	31 losses
mir-185	MI0000482	chr22:18400662-18400743(+)	Variation_5168	chr22:18267966-18449970	6 losses
mir-1306	MI0006443	chr22:18453581-18453665(+)	Variation_31071	chr22:17399088-19383198	6 gains
mir-1306	MI0006443	chr22:18453581-18453665(+)	Variation_4117	chr22:18406493-18689447	N.A.

Supplemental Table 2: A list of pre-miRNAs in the CNV regions

pre-miRNA	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-1306	MI0006443	chr22:18453581-18453665(+)	Variation_4117	chr22:18406493-18689447	N.A.
mir-1286	MI0006348	chr22:18616657-18616734(-)	Variation_31071	chr22:17399088-19383198	6 gains
mir-1286	MI0006348	chr22:18616657-18616734(-)	Variation_4117	chr22:18406493-18689447	N.A.
mir-1286	MI0006348	chr22:18616657-18616734(-)	Variation_4117	chr22:18406493-18689447	N.A.
mir-1286	MI0006348	chr22:18616657-18616734(-)	Variation_30157	chr22:18575591-18624616	1 loss
mir-1286	MI0006348	chr22:18616657-18616734(-)	Variation_30154	chr22:18524663-18624616	2 losses
mir-649	MI0003664	chr22:19718465-19718561(-)	Variation_5170	chr22:19664133-19854524	12 gains
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_9842	chr22:21475634-21538519	1 gain
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_23326	chr22:21452288-21569061	1 gain
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_23326	chr22:21452288-21569061	1 gain
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_2268	chr22:21394879-21570697	35 gains, 32 losses
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_9840	chr22:21384614-21554058	4 gains
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_7335	chr22:21488714-21568288	45 gains
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_9839	chr22:21441861-21554058	6 gains
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_34540	chr22:20596808-21598390	6 gains
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_2019	chr22:21032390-21564096	N.A.
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_0334	chr22:21133087-21518308	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_0546	chr22:21481774-21581634	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_10613	chr22:20718332-21506986	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_10618	chr22:21441861-21554058	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_10619	chr22:21475634-21538519	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_35986	chr22:20705862-21573766	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_35987	chr22:20708899-21581181	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_35989	chr22:21023000-21588528	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_35996	chr22:21101787-21584145	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_36003	chr22:21348404-21583220	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_36004	chr22:21359038-21591683	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_36005	chr22:21360350-21602265	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_36006	chr22:21481774-21581634	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_36007	chr22:21487340-21586552	1 loss
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_0818	chr22:21394879-21570697	18 losses
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_10608	chr22:21361579-21554058	4 losses
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_10610	chr22:21046568-21554058	4 losses
mir-650	MI0003665	chr22:21495270-21495365(+)	Variation_5177	chr22:21400751-21552729	9 losses
mir-548j	MI0006345	chr22:25281178-25281289(-)	Variation_4121	chr22:25228499-25359896	N.A.
mir-658	MI0003682	chr22:36570225-36570324(-)	Variation_4128	chr22:36333823-36595824	N.A.
mir-658	MI0003682	chr22:36570225-36570324(-)	Variation_4128	chr22:36333823-36595824	N.A.



Supplemental Table 2: A list of pre-miRNAs in the CNV regions

pre-miRNA	MI ID	pre-miRNA location (hg18)	CNV ID	CNV Position (hg18)	Observed CNVs <sup>a</sup>
mir-659	MI0003683	chr22:36573631-36573727(-)	Variation_4128	chr22:36333823-36595824	N.A.
mir-659	MI0003683	chr22:36573631-36573727(-)	Variation_4128	chr22:36333823-36595824	N.A.
mir-659	MI0003683	chr22:36573631-36573727(-)	Variation_39315	chr22:36572839-36574389	1 loss
mir-1249	MI0006384	chr22:43975499-43975564(-)	Variation_4132	chr22:43952888-44316588	N.A.
let-7a-3	MI0000062	chr22:44887293-44887366(+)	Variation_30165	chr22:44801602-44896746	1 loss
let-7a-3	MI0000062	chr22:44887293-44887366(+)	Variation_30164	chr22:44854128-44911444	2 losses
let-7b	MI0000063	chr22:44888230-44888312(+)	Variation_30165	chr22:44801602-44896746	1 loss
let-7b	MI0000063	chr22:44888230-44888312(+)	Variation_30164	chr22:44854128-44911444	2 losses
mir-1912	MI0008333	chrX:113792275-113792354(+)	Variation_7758	chrX:112815468-114902000	4 gains, 9 losses
mir-1264	MI0003758	chrX:113793386-113793454(+)	Variation_7758	chrX:112815468-114902000	4 gains, 9 losses
mir-1298	MI0003938	chrX:113855906-113856017(+)	Variation_7758	chrX:112815468-114902000	4 gains, 9 losses
mir-1911	MI0008332	chrX:113904000-113904079(+)	Variation_7758	chrX:112815468-114902000	4 gains, 9 losses
mir-448	MI0001637	chrX:113964273-113964383(+)	Variation_7758	chrX:112815468-114902000	4 gains, 9 losses
mir-513c	MI0006649	chrX:146078914-146078997(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-513c	MI0006649	chrX:146078914-146078997(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-513b	MI0006648	chrX:146088254-146088337(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-513b	MI0006648	chrX:146088254-146088337(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-513a-1	MI0003191	chrX:146102673-146102801(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-513a-1	MI0003191	chrX:146102673-146102801(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-513a-2	MI0003192	chrX:146115036-146115162(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-513a-2	MI0003192	chrX:146115036-146115162(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-506	MI0003193	chrX:146119930-146120053(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-506	MI0003193	chrX:146119930-146120053(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-507	MI0003194	chrX:146120194-146120287(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-507	MI0003194	chrX:146120194-146120287(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-508	MI0003195	chrX:146126123-146126237(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-508	MI0003195	chrX:146126123-146126237(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-509-2	MI0005530	chrX:146147970-146148060(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-509-2	MI0005530	chrX:146147970-146148060(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-509-3	MI0005717	chrX:146148862-146148936(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-509-3	MI0005717	chrX:146148862-146148936(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-509-1	MI0003196	chrX:146149742-146149835(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-509-1	MI0003196	chrX:146149742-146149835(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-510	MI0003197	chrX:146161545-146161618(-)	Variation_0670	chrX:146152797-146174575	1 gain
mir-510	MI0003197	chrX:146161545-146161618(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-510	MI0003197	chrX:146161545-146161618(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-510	MI0003197	chrX:146161545-146161618(-)	Variation_37011	chrX:146152065-146174575	1 gain

**Supplemental Table 2: A list of pre-miRNAs in the CNV regions**

<b>pre-miRNA</b>	<b>MI ID</b>	<b>pre-miRNA location (hg18)</b>	<b>CNV ID</b>	<b>CNV Position (hg18)</b>	<b>Observed CNVs<sup>a</sup></b>
mir-514-1	MI0003198	chrX:146168457-146168554(-)	Variation_0670	chrX:146152797-146174575	1 gain
mir-514-1	MI0003198	chrX:146168457-146168554(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-514-1	MI0003198	chrX:146168457-146168554(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-514-1	MI0003198	chrX:146168457-146168554(-)	Variation_37011	chrX:146152065-146174575	1 gain
mir-514-1	MI0003198	chrX:146168457-146168554(-)	Variation_31570	chrX:146167253-146176681	3 gains
mir-514-2	MI0003199	chrX:146171153-146171240(-)	Variation_0670	chrX:146152797-146174575	1 gain
mir-514-2	MI0003199	chrX:146171153-146171240(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-514-2	MI0003199	chrX:146171153-146171240(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-514-2	MI0003199	chrX:146171153-146171240(-)	Variation_37011	chrX:146152065-146174575	1 gain
mir-514-2	MI0003199	chrX:146171153-146171240(-)	Variation_31570	chrX:146167253-146176681	3 gains
mir-514-2	MI0003199	chrX:146171153-146171240(-)	Variation_33184	chrX:146168796-146175650	1 loss
mir-514-3	MI0003200	chrX:146173851-146173938(-)	Variation_0670	chrX:146152797-146174575	1 gain
mir-514-3	MI0003200	chrX:146173851-146173938(-)	Variation_3271	chrX:145931601-146596395	1 gain
mir-514-3	MI0003200	chrX:146173851-146173938(-)	Variation_8313	chrX:145956371-146541854	1 gain
mir-514-3	MI0003200	chrX:146173851-146173938(-)	Variation_37011	chrX:146152065-146174575	1 gain
mir-514-3	MI0003200	chrX:146173851-146173938(-)	Variation_31570	chrX:146167253-146176681	3 gains
mir-514-3	MI0003200	chrX:146173851-146173938(-)	Variation_33184	chrX:146168796-146175650	1 loss
mir-1184	MI0006277	chrX:153768829-153768927(-)	Variation_23331	chrX:153662541-154582606	1 gain
mir-1184	MI0006277	chrX:154265943-154266041(-)	Variation_23331	chrX:153662541-154582606	1 gain
mir-1184	MI0006277	chrX:154340372-154340470(+)	Variation_23331	chrX:153662541-154582606	1 gain
mir-98	MI0000100	chrX:53599909-53600027(-)	Variation_23256	chrX:52907733-55696471	1 loss
let-7f-2	MI0000068	chrX:53600878-53600960(-)	Variation_23256	chrX:52907733-55696471	1 loss
mir-384	MI0001145	chrX:76056092-76056179(-)	Variation_38758	chrX:76053855-76057477	125 gains, 1 loss
mir-384	MI0001145	chrX:76056092-76056179(-)	Variation_3252	chrX:75986125-76068142	2 losses
mir-651	MI0003666	chrX:8055006-8055102(+)	Variation_8298	chrX:7790764-8397993	1 gain
mir-651	MI0003666	chrX:8055006-8055102(+)	Variation_9337	chrX:7970400-8095053	1 gain
mir-651	MI0003666	chrX:8055006-8055102(+)	Variation_34488	chrX:7405997-8116174	3 gains

a: N.A. stands for not available

Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction

Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction

SNP	SNP Position (hg18)	TargetScanS Prediction
rs3203208	chr1:1708192	GNB1:miR-218:1
rs17029653	chr1:6618080	DNAJC11:miR-362
rs34335657	chr1:7750490	CAMTA1:miR-450
rs2155760	chr1:10359836	KIF1B:miR-125/351
rs7511713	chr1:11006344	TARDBP:miR-181
rs11807940	chr1:12190929	TNFRSF1B:let-7/98
rs11546437	chr1:15629056	EFHD2:miR-153
rs11546437	chr1:15629056	EFHD2:miR-448
rs3795761	chr1:15770665	DNAJC16:miR-375
rs1064042	chr1:17185261	ATP13A2:miR-24
rs14087	chr1:19538138	CAPZB:miR-331
rs14087	chr1:19538138	CAPZB:miR-339
rs1045038	chr1:20943854	HP1BP3:miR-433-3p
rs897468	chr1:22022274	HSPG2:miR-15/16/195/424/497
rs897468	chr1:22022274	HSPG2:miR-503
rs41266043	chr1:22802104	EPHA8:miR-33
rs41266043	chr1:22802104	EPHA8:miR-129-5p
rs41266043	chr1:22802104	EPHA8:miR-450
rs1801930	chr1:23509101	HNRPR:miR-452
rs11583293	chr1:25767240	LDLRAP1:miR-124.2/506
rs3210937	chr1:26031797	FAM54B:miR-7
rs35124746	chr1:26100082	STMN1:miR-223
rs1127756	chr1:26480528	SH3BGRL3:miR-182
rs1127756	chr1:26480528	SH3BGRL3:miR-96
rs61005297	chr1:26628494	LIN28:miR-30-5p:2
rs12239134	chr1:27145451	NUDC:miR-194
rs34672418	chr1:27594606	GPR3:miR-135
rs1043163	chr1:31965554	BAI2:miR-122
rs11319887	chr1:32281377	KHDRBS1:miR-218
rs12405056	chr1:32281989	KHDRBS1:miR-34b
rs35572238	chr1:35103759	DLGAP3:miR-133
rs11545215	chr1:36542735	THRAP3:miR-23
rs1128665	chr1:36577899	STK40:miR-134
rs1046520	chr1:38047664	C1orf122:miR-491
rs28418984	chr1:38282471	POU3F1:miR-342
rs11538676	chr1:40478910	RLF:miR-495:1
rs12117629	chr1:40861263	RIMS3:miR-34/449
rs3862220	chr1:42940454	YBX1:miR-539
rs35817790	chr1:42984662	LEPRE1:miR-9
rs55946822	chr1:43164540	SLC2A1:miR-410
rs11933	chr1:43164649	SLC2A1:miR-328:2
rs11933	chr1:43164649	SLC2A1:miR-148/152
rs14590	chr1:43943690	JMJD2A:miR-495
rs59569934	chr1:44168790	ST3GAL3:miR-141/200a
rs1859726	chr1:44168802	ST3GAL3:miR-369-3p
rs12037843	chr1:46871532	ATPAF1:miR-203.1
rs11551135	chr1:51526180	C1orf34:miR-99/100
rs41292517	chr1:51593176	EPS15:miR-148/152
rs41292517	chr1:51593176	EPS15:miR-130/301
rs41292517	chr1:51593176	EPS15:miR-19

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs9662305	chr1:52325415	BTF3L4:miR-495
rs4628	chr1:56734344	PPAP2B:miR-224
rs1052426	chr1:62401675	INADL:miR-18
rs62620019	chr1:62689369	USP1:miR-410
rs1051544	chr1:84476590	PRKACB:miR-18
rs59181885	chr1:91154255	ZNF644:miR-539
rs1050619	chr1:91921599	TGFBR3:miR-23
rs1050619	chr1:91921599	TGFBR3:miR-323
rs35865570	chr1:94411810	ARHGAP29:miR-145
rs35865570	chr1:94411810	ARHGAP29:miR-199
rs3789699	chr1:95135589	CNN3:miR-153
rs10803	chr1:95135867	CNN3:miR-200bc/429
rs41285716	chr1:99545479	LPPR4:miR-96:1
rs34327534	chr1:99546976	LPPR4:miR-491
rs5876	chr1:100320582	HIAT1:miR-31
rs12121012	chr1:100434180	DBT:miR-192/215
rs2518418	chr1:100779336	GPR88:miR-137
rs1056840	chr1:101479198	EDG1:miR-17-5p/20/93/106/519.d
rs17019191	chr1:107825738	NTNG1:miR-182
rs12987	chr1:110367211	AHCYL1:miR-320
rs56714545	chr1:112864937	WNT2B:miR-130/301
rs1059479	chr1:113045415	RHOC:miR-142-5p
rs1059479	chr1:113045415	RHOC:miR-17-5p/20/93/106/519.d
rs1059479	chr1:113045415	RHOC:miR-93/291-3p/294/295/302/372/373/520
rs1059479	chr1:113045415	RHOC:miR-138
rs12723560	chr1:114109883	RSBN1:miR-342
rs34764866	chr1:114319284	HIPK1:miR-124.2/506:1
rs34764866	chr1:114319284	HIPK1:miR-124.1:1
rs2737825	chr1:148815865	MCL1:miR-26
rs10305753	chr1:149049822	ARNT:miR-135
rs10553014	chr1:149204597	LASS2:miR-34b
rs34658364	chr1:149204595	LASS2:miR-34b
rs1802719	chr1:149306711	MLLT11:miR-29
rs12904	chr1:153373321	EFNA1:miR-200bc/429
rs41264227	chr1:153572821	ASH1L:miR-329
rs15408	chr1:154121398	SYT11:miR-186
rs60294423	chr1:154978950	HDGF:miR-129-5p
rs11556953	chr1:158154993	TAGLN2:miR-133:1
rs36076633	chr1:158155137	TAGLN2:miR-1/206
rs2854245	chr1:158379963	ATP1A2:miR-26
rs41265781	chr1:158450411	PEA15:miR-338
rs5778164	chr1:158661910	VANGL2:miR-26
rs9058	chr1:159408013	B4GALT3:miR-27:1
rs9058	chr1:159408013	B4GALT3:miR-128
rs7412853	chr1:164305923	FAM78B:miR-384
rs41270714	chr1:165777931	CREG1:miR-135
rs10044	chr1:166311363	IQWD1:miR-186
rs12091844	chr1:167699897	SLC19A2:miR-101
rs17302346	chr1:173250166	MRPS14:miR-27
rs1053045	chr1:174180638	RFWD2:miR-186
rs41268464	chr1:179326516	IER5:miR-200bc/429
rs57416975	chr1:181487548	NMNAT2:miR-539

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs41272542	chr1:181788123	SMG7:miR-181
rs59035813	chr1:183336172	RNF2:miR-24
rs56736495	chr1:184425750	HMCN1:miR-29
rs34333849	chr1:191047947	RGS2:miR-96
rs34333849	chr1:191047947	RGS2:miR-182
rs12410992	chr1:191415808	B3GALT2:miR-25/32/92/363/367
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1
rs35753959	chr1:198642386	ZNF281:miR-378
rs11542634	chr1:200118729	IPO9:miR-503
rs1804734	chr1:201545229	BTG2:miR-21
rs35434297	chr1:201578020	FMOD:miR-338
rs36012144	chr1:202363486	SOX13:miR-203.1
rs11576112	chr1:202434090	GOLT1A:miR-378*
rs6677458	chr1:204150416	SLC26A9:let-7/98
rs5780659	chr1:209988055	LPGAT1:miR-299-5p
rs35630582	chr1:209988056	LPGAT1:miR-299-5p
rs11588647	chr1:213475956	KCNK2:miR-200bc/429
rs3768024	chr1:214744731	ESRRG:miR-369-3p
rs3768024	chr1:214744731	ESRRG:miR-374
rs1141265	chr1:214745759	ESRRG:miR-324-5p
rs1141262	chr1:214746054	ESRRG:miR-7
rs34140107	chr1:219941461	DUSP10:miR-129-5p
rs34140107	chr1:219941461	DUSP10:miR-450
rs34950696	chr1:222641463	WDR26:miR-19
rs61835248	chr1:224400389	ACBD3:miR-330
rs15319	chr1:243083713	HNRPU:miR-496
rs3193929	chr1:243083717	HNRPU:miR-496
rs58273005	chr1:243084101	HNRPU:miR-224
rs12733852	chr1:245070061	AHCTF1:miR-490
rs6758214	chr2:9641927	YWHAQ:miR-139:2
rs978906	chr2:11240727	ROCK2:miR-142-3p:1
rs13404748	chr2:16597634	FAM49A:miR-30-5p
rs6669	chr2:20312002	PUM2:miR-377
rs17737058	chr2:24845073	NCOA1:miR-488
rs35163679	chr2:25309938	DNMT3A:miR-200bc/429
rs6728684	chr2:26004277	KIF3C:miR-505
rs62128674	chr2:26465969	SELL:miR-182
rs1049795	chr2:27385989	MPV17:miR-491
rs2653	chr2:27453227	SNX17:miR-331
rs1045325	chr2:27457934	PPM1G:miR-24
rs3087895	chr2:30235457	YPEL5:miR-30-5p
rs56272862	chr2:32233167	SPAST:miR-30-5p:1
rs56272862	chr2:32233167	SPAST:miR-486
rs11550290	chr2:36630373	CRIM1:miR-18
rs2160396	chr2:37332052	PRKD3:miR-421
rs11547145	chr2:38825742	SFRS7:miR-30-5p
rs5546	chr2:40194892	SLC8A1:miR-19:1
rs59794453	chr2:43304650	ZFP36L2:miR-375:2
rs60089722	chr2:43304650	ZFP36L2:miR-375:2
rs57196656	chr2:43846964	PLEKHH2:miR-299-3p
rs34098574	chr2:46664267	RHOQ:miR-9

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs1051328	chr2:46982895	MCFD2:miR-186:1
rs10196117	chr2:47155128	TTC7A:miR-124.2/506
rs28635788	chr2:47155128	TTC7A:miR-124.2/506
rs1803209	chr2:47241073	CALM2:miR-505
rs1045881	chr2:50002476	NRXN1:miR-339
rs7573286	chr2:55053268	RTN4:miR-182
rs12477185	chr2:55630149	SMEK2:miR-381:1
rs1061326	chr2:55947251	EFEMP1:miR-186:2
rs2287086	chr2:60539999	BCL11A:miR-363:1
rs1050608	chr2:61558609	XPO1:miR-142-3p
rs12613621	chr2:63137026	OTX1:miR-15/16/195/424/497:2
rs12613621	chr2:63137026	OTX1:miR-103/107
rs10618660	chr2:64174044	PELI1:miR-142-3p
rs58250178	chr2:69551596	AAK1:miR-496
rs35261794	chr2:69554435	AAK1:miR-205:1
rs61296228	chr2:70528078	TGFA:miR-23
rs61296228	chr2:70528078	TGFA:miR-323
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p
rs5024140	chr2:74585726	PCGF1:miR-23
rs5024141	chr2:74585727	PCGF1:miR-23
rs17438464	chr2:86294678	REEP1:miR-495
rs15284	chr2:96735523	LMAN2L:miR-15/16/195/424/497
rs3792153	chr2:99383977	REV1:miR-200bc/429
rs59985221	chr2:99530403	AFF3:miR-129-5p
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1
rs13409873	chr2:101874641	MAP4K4:miR-203.1
rs10622924	chr2:105876623	NCK2:miR-25/32/92/363/367
rs33961225	chr2:105876624	NCK2:miR-25/32/92/363/367
rs34347764	chr2:105876706	NCK2:miR-183
rs11553853	chr2:105877068	NCK2:miR-455
rs11553853	chr2:105877068	NCK2:miR-1/206
rs1801602	chr2:106076797	UXS1:miR-145
rs35247728	chr2:111640463	BCL2L11:miR-376
rs34871350	chr2:113137493	SLC20A1:miR-339
rs762740	chr2:127522419	BIN1:miR-9
rs56985094	chr2:131836978	LOC150786:miR-218
rs1053679	chr2:139043384	LOC339745:miR-124.2/506:1
rs62169202	chr2:144862118	ZEB2:miR-369-3p:2
rs62169202	chr2:144862118	ZEB2:miR-200bc/429:5
rs62169203	chr2:144862630	ZEB2:miR-25/32/92/363/367
rs11291336	chr2:152403264	CACNB4:miR-129-5p
rs11291336	chr2:152403264	CACNB4:miR-182
rs11291336	chr2:152403264	CACNB4:miR-96
rs2615499	chr2:156889626	NR4A2:miR-204/211
rs11537712	chr2:158301986	ACVR1:miR-365
rs5024424	chr2:165956317	SCN2A:miR-101
rs35272219	chr2:173625469	RAPGEF4:miR-203.1
rs34758049	chr2:176502032	KIAA1715:miR-30-3p
rs15515	chr2:178702454	DRB1:miR-320
rs2304340	chr2:178968628	OSBPL6:miR-30-3p
rs4018776	chr2:181636213	UBE2E3:miR-384
rs35185196	chr2:181636218	UBE2E3:miR-384

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs1372122	chr2:182250427	NEUROD1:miR-153
rs2368335	chr2:183669913	DUSP19:miR-374
rs1054264	chr2:187253730	ITGAV:miR-299-3p
rs12392	chr2:198059774	HSPD1:miR-1/206
rs55884229	chr2:201396295	BZW1:miR-24
rs17387557	chr2:206369947	NRP2:miR-141/200a
rs35564745	chr2:208336085	FZD5:miR-24
rs2292299	chr2:208336648	FZD5:miR-381
rs55977831	chr2:217249624	IGFBP5:miR-143
rs3204750	chr2:218919561	PNKD:let-7/98
rs1043910	chr2:220112025	CHPF:miR-139
rs13385757	chr2:221993236	EPHA4:miR-138
rs60668742	chr2:222772944	PAX3:miR-485-5p
rs4586622	chr2:225045799	CUL3:miR-181:2
rs60365791	chr2:232381635	COPS7B:miR-486
rs1063921	chr2:235068605	ARL4C:miR-7
rs2230360	chr2:241817653	HDLBP:miR-214
rs34717483	chr3:3863718	LRRN1:miR-369-3p
rs34717483	chr3:3863718	LRRN1:miR-374
rs35018130	chr3:4863676	ITPR1:miR-204/211
rs3840229	chr3:7757488	GRM7:miR-19
rs56173829	chr3:7757494	GRM7:miR-19
rs56173829	chr3:7757494	GRM7:miR-130/301
rs56173829	chr3:7757494	GRM7:miR-17-5p/20/93/106/519.d
rs13085756	chr3:9494746	SETD5:miR-30-5p:2
rs13085758	chr3:9494749	SETD5:miR-30-5p:2
rs35674	chr3:10343577	ATP2B2:miR-326
rs34978212	chr3:10344893	ATP2B2:miR-410
rs930541	chr3:12200597	SYN2:miR-335
rs6771041	chr3:12201031	SYN2:miR-34b
rs3202499	chr3:13654776	FBLN2:miR-128
rs2731309	chr3:14159097	TMEM43:miR-194
rs2731310	chr3:14159096	TMEM43:miR-194
rs10510454	chr3:16604609	DAZL:miR-378*
rs28509419	chr3:25613194	RARB:miR-15/16/195/424/497
rs11305471	chr3:30021347	RBMS3:miR-320
rs10696791	chr3:30021426	RBMS3:miR-363
rs11322142	chr3:30021431	RBMS3:miR-363
rs10696791	chr3:30021426	RBMS3:miR-129-5p:1
rs11322142	chr3:30021431	RBMS3:miR-129-5p:1
rs10696791	chr3:30021426	RBMS3:miR-450
rs11322142	chr3:30021431	RBMS3:miR-450
rs17026326	chr3:30708360	TGFBR2:miR-19
rs17026326	chr3:30708360	TGFBR2:miR-130/301
rs35934901	chr3:30708406	TGFBR2:miR-410
rs4678508	chr3:35702260	ARPP-21:miR-26
rs60678416	chr3:38507503	ACVR2B:miR-203.1
rs45512996	chr3:38565195	SCN5A:let-7/98
rs45589543	chr3:38565380	SCN5A:miR-153
rs45589543	chr3:38565380	SCN5A:miR-448
rs41310753	chr3:38565426	SCN5A:miR-378*
rs61130760	chr3:39112444	WDR48:miR-218

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs10717713	chr3:42226900	TRAK1:miR-15/16/195/424/497
rs10717713	chr3:42226900	TRAK1:miR-503
rs1804698	chr3:47603360	SMARCC1:miR-214
rs34505792	chr3:47603389	SMARCC1:miR-124.1
rs3731563	chr3:48174699	CDC25A:miR-21
rs3731562	chr3:48174881	CDC25A:let-7/98
rs11914742	chr3:48484799	SCOTIN:miR-328
rs11552766	chr3:49371656	RHOA:miR-185
rs11538154	chr3:49545869	DAG1:miR-495
rs60858854	chr3:49545874	DAG1:miR-495
rs13827	chr3:49546931	DAG1:miR-485-5p
rs35841879	chr3:49548014	DAG1:miR-190
rs11706794	chr3:51396292	DOCK3:miR-486
rs1045656	chr3:51966631	PCBP4:miR-9
rs3733067	chr3:52265634	TMEM113:miR-30-5p:1
rs11626	chr3:52849024	TMEM110:miR-141/200a
rs35455336	chr3:53296449	DCP1A:miR-138
rs35336193	chr3:53296462	DCP1A:miR-128
rs358077	chr3:55083398	CACNA2D3:miR-143
rs56135778	chr3:57588494	FAM116A:miR-494
rs34585452	chr3:64057869	PRICKLE2:miR-33
rs11553627	chr3:66513369	LRIG1:let-7/98
rs17045718	chr3:67143949	KBTBD8:miR-181
rs36084453	chr3:70099937	MITF:miR-148/152:2
rs11542656	chr3:72507029	RYBP:miR-381:1
rs11915062	chr3:72507354	RYBP:miR-141/200a
rs4677160	chr3:72509591	RYBP:miR-499:1
rs58458600	chr3:88184208	CGGBP1:miR-18
rs1063597	chr3:88186622	CGGBP1:miR-324-3p
rs6551275	chr3:88275113	ZNF654:miR-153
rs1058732	chr3:99998659	DCBLD2:miR-24
rs57057801	chr3:101566905	TOMM70A:miR-320
rs1027704	chr3:101951120	ABI3BP:miR-181
rs4061093	chr3:101951120	ABI3BP:miR-181
rs5851223	chr3:101951118	ABI3BP:miR-181
rs1042852	chr3:106860205	CBLB:miR-30-5p
rs7648784	chr3:114921497	NAT13:miR-21
rs63577561	chr3:115540221	ZBTB20:miR-129-5p
rs63142661	chr3:116922602	GAP43:miR-370
rs28399411	chr3:116922800	GAP43:miR-25/32/92/363/367
rs1128154	chr3:122833306	HCLS1:miR-103/107
rs12638966	chr3:123561298	CCDC58:miR-24
rs35400509	chr3:124110837	SEMA5B:miR-378
rs34709307	chr3:124814466	MYLK:miR-93/291-3p/294/295/302/372/373/520
rs12199	chr3:124815150	MYLK:miR-24
rs57081065	chr3:124815581	MYLK:miR-129-5p
rs35145256	chr3:126433474	ZNF148:miR-370
rs11434122	chr3:132203059	ATP2C1:miR-153
rs11434122	chr3:132203059	ATP2C1:miR-448
rs3193182	chr3:134597640	TMEM108:miR-320
rs1131974	chr3:135557624	AMOTL2:miR-382
rs17199978	chr3:137538874	STAG1:miR-182:2



**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs17199978	chr3:137538874	STAG1:miR-96:2
rs56336040	chr3:143511924	XRN1:miR-505
rs1061262	chr3:147269980	PLOD2:miR-182
rs1061262	chr3:147269980	PLOD2:miR-96
rs35579941	chr3:151744480	SERP1:miR-122
rs2686581	chr3:153663465	MBNL1:miR-218:1
rs1063048	chr3:153663504	MBNL1:miR-433-3p
rs1801770	chr3:153663920	MBNL1:miR-330
rs6772662	chr3:171194515	TLOC1:miR-124.1
rs13087746	chr3:178224806	TBL1XR1:miR-34/449
rs6769752	chr3:180788540	ACTL6A:miR-320
rs3209734	chr3:182177634	FXR1:miR-7
rs1801035	chr3:185384366	AP2M1:miR-9
rs1057502	chr3:185384493	AP2M1:miR-330
rs11546693	chr3:185460132	CAMK2N2:miR-485-5p:2
rs63665263	chr3:185590044	CHRD:miR-196
rs63665263	chr3:185590044	CHRD:let-7/98
rs7355810	chr3:186845006	IGF2BP2:miR-485-5p
rs28480687	chr3:187349461	DGKG:miR-410
rs56220221	chr3:187349460	DGKG:miR-410
rs4686786	chr3:187739043	CRYGS:miR-133
rs3206822	chr3:187990259	EIF4A2:miR-145
rs3206231	chr3:188419051	MASP1:miR-125/351
rs35861864	chr3:191097201	TP73L:miR-101
rs568873	chr3:197262182	TFRC:miR-145
rs56890907	chr3:198158228	PIGZ:miR-9
rs4865477	chr4:1785788	LETM1:miR-1/206
rs11549294	chr4:6935828	KIAA0232:miR-128
rs11549294	chr4:6935828	KIAA0232:miR-485-3p
rs1802032	chr4:9685225	WDR1:miR-544
rs1388328	chr4:23404216	PPARGC1A:miR-33
rs1801731	chr4:24138518	DHX15:miR-186:1
rs1046023	chr4:24889443	PI4K2B:miR-124.2/506
rs58334461	chr4:37289130	NM_001085400:miR-17-5p/20/93/106/519.d
rs58334461	chr4:37289130	NM_001085400:miR-93/291-3p/294/295/302/372/373/520
rs62307873	chr4:39501052	SCC-112:miR-329
rs7680422	chr4:54856274	PDGFRA:miR-33:1
rs12500930	chr4:62620461	LPHN3:miR-130/301
rs35250360	chr4:68862243	YTHDC1:miR-145
rs35810012	chr4:72653064	SLC4A4:miR-338
rs4403012	chr4:72653252	SLC4A4:miR-370
rs4403013	chr4:72653320	SLC4A4:miR-381
rs4403014	chr4:72653325	SLC4A4:miR-381
rs34921070	chr4:72653321	SLC4A4:miR-381
rs41265675	chr4:72653335	SLC4A4:miR-323
rs41265675	chr4:72653335	SLC4A4:miR-23
rs1803390	chr4:77301700	SCARB2:miR-142-5p
rs4150094	chr4:78306330	CCNG2:miR-17-5p/20/93/106/519.d
rs4150094	chr4:78306330	CCNG2:miR-142-5p
rs3944	chr4:83493823	HNRPD:miR-224
rs17703261	chr4:88277361	AFF1:miR-19
rs34636402	chr4:88280653	AFF1:miR-369-3p:1

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs34636402	chr4:88280653	AFF1:miR-374:1
rs35907994	chr4:88280669	AFF1:miR-369-3p:4
rs56202513	chr4:88280669	AFF1:miR-369-3p:4
rs35907994	chr4:88280669	AFF1:miR-374:4
rs56202513	chr4:88280669	AFF1:miR-374:4
rs35907994	chr4:88280669	AFF1:miR-410:2
rs56202513	chr4:88280669	AFF1:miR-410:2
rs1059125	chr4:89867707	FAM13A1:miR-130/301
rs36011297	chr4:100020327	EIF4E:miR-330
rs1803732	chr4:101088391	H2AFZ:miR-132/212
rs1042094	chr4:102165971	PPP3CA:miR-103/107
rs1803231	chr4:102165975	PPP3CA:miR-103/107
rs4365796	chr4:109189332	LEF1:miR-363
rs56095450	chr4:114523670	ANK2:miR-495
rs11268465	chr4:115042460	ARSJ:miR-10
rs41300351	chr4:129410761	PGRMC2:miR-493-5p
rs3069727	chr4:130015622	PHF17:miR-500
rs10970	chr4:134331061	PCDH10:miR-24
rs1058267	chr4:134332052	PCDH10:miR-23
rs17017380	chr4:144362051	USP38:miR-495
rs34305988	chr4:146268268	ABCE1:miR-491
rs34305988	chr4:146268268	ABCE1:miR-299-3p
rs35984115	chr4:146268771	ABCE1:miR-29
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520
rs1063615	chr4:146276389	OTUD4:miR-214
rs60709046	chr4:149221545	NR3C2:miR-19
rs4399968	chr4:153462774	FBXW7:miR-338
rs3841114	chr4:153462927	FBXW7:miR-182:1
rs9631758	chr4:154478587	TRIM2:miR-132/212
rs1071738	chr4:170085964	PALLD:miR-182:2
rs17061725	chr4:176791216	GPM6A:miR-330
rs7661251	chr4:183960487	ODZ3:miR-216
rs11371540	chr4:183960771	ODZ3:miR-29
rs11542347	chr4:183960774	ODZ3:miR-29
rs28703245	chr4:184797906	RWDD4A:miR-26
rs2292899	chr4:185915104	ACSL1:miR-124.1:1
rs2292899	chr4:185915104	ACSL1:miR-124.2/506:1
rs2292899	chr4:185915104	ACSL1:miR-34b
rs2292899	chr4:185915104	ACSL1:miR-34/449
rs1804551	chr4:186305252	SLC25A4:let-7/98
rs34952047	chr5:2799880	IRX2:miR-330
rs9332	chr5:7953712	MTRR:miR-361
rs1044405	chr5:16526310	FLJ20152:miR-124.2/506
rs26317	chr5:16719180	MYO10:miR-17-5p/20/93/106/519.d
rs1393229	chr5:17329645	BASP1:miR-409-3p
rs1393227	chr5:17329674	BASP1:miR-539
rs2650930	chr5:17329866	BASP1:miR-493-5p
rs2652631	chr5:17329870	BASP1:miR-493-5p
rs17435231	chr5:32160789	GOLPH3:miR-375
rs11555316	chr5:32636955	SUB1:miR-135
rs5867157	chr5:32822888	NPR3:miR-496

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs33960342	chr5:32822889	NPR3:miR-496
rs34031034	chr5:37100871	NIPBL:miR-324-5p
rs59167521	chr5:38516856	LIFR:miR-101
rs59167521	chr5:38516856	LIFR:miR-144:1
rs36033427	chr5:38974719	RICTOR:miR-203.1
rs45622440	chr5:38974721	RICTOR:miR-203.1
rs16867891	chr5:38976307	RICTOR:miR-326
rs7723510	chr5:53216579	ARL15:miR-186
rs10033	chr5:54756680	PPAP2A:miR-15/16/195/424/497:1
rs4084824	chr5:55272816	IL6ST:miR-378
rs10045390	chr5:56253098	MIER3:miR-30-5p:3
rs34018584	chr5:61717685	KIF2A:miR-1/206
rs2292152	chr5:65001534	SGTB:miR-381
rs35663374	chr5:65001531	SGTB:miR-381
rs3729983	chr5:67629538	PIK3R1:miR-320
rs5868531	chr5:67629989	PIK3R1:miR-153
rs5868531	chr5:67629989	PIK3R1:miR-448
rs5868532	chr5:67632926	PIK3R1:miR-103/107
rs5868532	chr5:67632926	PIK3R1:miR-15/16/195/424/497
rs34873643	chr5:67632927	PIK3R1:miR-15/16/195/424/497
rs5868532	chr5:67632926	PIK3R1:miR-503
rs34873643	chr5:67632927	PIK3R1:miR-503
rs1643543	chr5:67633110	PIK3R1:miR-129-5p:2
rs1664560	chr5:67633111	PIK3R1:miR-129-5p:2
rs12518829	chr5:72420018	FCHO2:miR-218
rs2979	chr5:72836915	BTF3:miR-361
rs5744720	chr5:74930089	POLK:miR-378
rs34872448	chr5:76039697	IQGAP2:miR-543
rs11558670	chr5:77816981	LHFPL2:miR-24
rs2241567	chr5:77820194	LHFPL2:miR-362
rs2241568	chr5:77820189	LHFPL2:miR-362
rs2241567	chr5:77820194	LHFPL2:miR-205
rs17206014	chr5:82912040	VCAN:miR-203.1
rs6697	chr5:95154812	RHOBTB3:miR-204/211
rs6697	chr5:95154812	RHOBTB3:miR-375
rs13857	chr5:100170983	ST8SIA4:miR-103/107
rs8488	chr5:102566651	HISPPD1:miR-181:1
rs17297682	chr5:102566693	HISPPD1:miR-181:2
rs56059589	chr5:109230778	MAN2A1:miR-135
rs11432316	chr5:112208127	APC:miR-153:1
rs34829795	chr5:112208128	APC:miR-153:1
rs11432316	chr5:112208127	APC:miR-448
rs34829795	chr5:112208128	APC:miR-448
rs11432316	chr5:112208127	APC:miR-129-5p
rs34829795	chr5:112208128	APC:miR-129-5p
rs11432316	chr5:112208127	APC:miR-450
rs34829795	chr5:112208128	APC:miR-450
rs6892784	chr5:112377196	DCP2:miR-494
rs13357043	chr5:112377193	DCP2:miR-494
rs10558436	chr5:122193370	SNX2:miR-410
rs1058512	chr5:125856770	GRAMD3:miR-15/16/195/424/497
rs57194914	chr5:132006982	RAD50:miR-134

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs13169499	chr5:133943970	PHF15:miR-338
rs13160240	chr5:137116380	HNRPA0:miR-221/222:1
rs35586116	chr5:137710669	FAM53C:miR-125/351
rs1801867	chr5:138693761	MATR3:miR-329
rs1803697	chr5:139692687	HBEGF:miR-194:2
rs1803697	chr5:139692687	HBEGF:miR-132/212
rs6866443	chr5:141512073	NDFIP1:miR-155
rs10050933	chr5:148363748	SH3TC2:miR-496
rs3828609	chr5:149413056	CSF1R:miR-155
rs6674	chr5:149473728	PDGFRB:miR-30-5p
rs1045540	chr5:149913203	NDST1:miR-137
rs12109481	chr5:150068807	DCTN4:miR-500
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1
rs33935792	chr5:151022076	SPARC:miR-452
rs62382385	chr5:156123972	SGCD:miR-361
rs254682	chr5:157146075	CLINT1:miR-433-3p
rs998754	chr5:161258512	GABRA1:miR-376c
rs7443935	chr5:167622845	ODZ2:let-7/98
rs2305737	chr5:167878839	RARS:miR-219
rs60850132	chr5:170671695	TLX3:miR-191
rs34486870	chr5:171221591	FBXW11:miR-331
rs35661076	chr5:171696199	SH3PXD2B:miR-96
rs1058947	chr5:172127870	DUSP1:miR-148/152
rs13164819	chr5:172494171	LOC153222:miR-129-5p
rs35893717	chr5:172494403	LOC153222:miR-128:1
rs35893717	chr5:172494403	LOC153222:miR-27:1
rs34366345	chr5:176731977	RGS14:miR-324-3p
rs1049880	chr5:176955648	TMED9:miR-499
rs14801	chr5:179196851	SQSTM1:miR-17-5p/20/93/106/519.d
rs1803841	chr5:179595622	MAPK9:miR-17-5p/20/93/106/519.d
rs59158458	chr5:179660347	GFPT2:miR-219
rs11957870	chr5:179937346	CNOT6:miR-130/301:2
rs8790	chr6:3214817	C6orf85:miR-218
rs3813487	chr6:3215063	C6orf85:miR-183
rs41301861	chr6:3667940	C6orf145:miR-496
rs1045385	chr6:10506102	TFAP2A:miR-200bc/429:1
rs35188801	chr6:12272937	HIVEP1:miR-410
rs693758	chr6:13395379	PHACTR1:miR-496
rs2205794	chr6:16256155	MYLIP:miR-500
rs3134582	chr6:16408286	ATXN1:miR-30-5p:2
rs4134986	chr6:20600386	E2F3:miR-140
rs9261288	chr6:30145332	PPP1R11:miR-34/449:1
rs9261288	chr6:30145332	PPP1R11:miR-182
rs9261288	chr6:30145332	PPP1R11:miR-96
rs34534502	chr6:30260499	TRIM26:miR-1/206
rs1802187	chr6:31935137	NEU1:miR-125/351
rs1061938	chr6:32244008	AGPAT1:miR-488
rs1802036	chr6:32244007	AGPAT1:miR-488
rs1047194	chr6:33288187	RING1:miR-133
rs9469922	chr6:34952979	C6orf107:miR-378
rs1051950	chr6:35573788	TULP1:miR-134
rs1804169	chr6:37250447	PIM1:miR-328

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs35893164	chr6:37251111	PIM1:miR-144
rs35893164	chr6:37251111	PIM1:miR-101
rs35893164	chr6:37251111	PIM1:miR-486
rs35893164	chr6:37251111	PIM1:miR-331
rs57137575	chr6:37407402	TBC1D22B:miR-24
rs57137575	chr6:37407402	TBC1D22B:miR-149
rs804842	chr6:37713078	MDGA1:miR-9:1
rs1214999	chr6:43696312	GTPBP2:miR-125/351
rs34682934	chr6:44231166	TMEM63B:miR-148/152
rs36041587	chr6:47702213	CD2AP:miR-181
rs3088338	chr6:64482255	PHF3:miR-496
rs3193656	chr6:71327264	KIAA1411:miR-496
rs35316430	chr6:71627287	SMAP1:miR-339
rs60499238	chr6:80681363	ELOVL4:miR-329
rs3778198	chr6:84320700	SNAP91:miR-384
rs15310	chr6:86380699	SYNCRIP:miR-381:2
rs16880260	chr6:88910102	CNR1:miR-30-5p
rs1046001	chr6:89931074	ACY1L2:miR-384
rs35789711	chr6:100097777	CCNC:miR-133
rs1049747	chr6:111322061	AMD1:miR-7
rs1052258	chr6:118134939	NUS1:miR-30-5p
rs1053140	chr6:118136464	NUS1:miR-19
rs60454232	chr6:119270760	ASF1A:miR-93/291-3p/294/295/302/372/373/520
rs12212865	chr6:121812163	GJA1:miR-381
rs11964202	chr6:122807837	SERINC1:miR-200bc/429
rs6908731	chr6:126401787	TRMT11:miR-410
rs34455247	chr6:131645575	AKAP7:miR-31
rs34455247	chr6:131645575	AKAP7:miR-182
rs36028195	chr6:134349945	TBPL1:miR-145
rs34857215	chr6:134532139	SGK:miR-382
rs10608076	chr6:136555172	PDE7B:miR-369-3p:1
rs10608076	chr6:136555172	PDE7B:miR-374
rs14514	chr6:136621548	BCLAF1:miR-374
rs14072	chr6:138453631	PERP:miR-299-5p
rs60283049	chr6:145989317	EPM2A:miR-182
rs41289353	chr6:151203861	PLEKHG1:miR-218
rs11558463	chr6:152484616	SYNE1:miR-543
rs11558463	chr6:152484616	SYNE1:miR-181
rs1321967	chr6:153121883	VIP:miR-27
rs1321967	chr6:153121883	VIP:miR-30-5p
rs34431910	chr6:155196372	RBM16:miR-493-5p
rs34431910	chr6:155196372	RBM16:miR-223
rs1804638	chr6:158977608	DYNLT1:miR-29
rs1804050	chr6:160089797	WTAP:miR-433-3p
rs35608645	chr6:163910999	QKI:miR-145:2
rs11546978	chr7:2669567	TTYH3:miR-133
rs13447412	chr7:5533400	ACTB:miR-205
rs11266786	chr7:5533486	ACTB:miR-124.1
rs16871368	chr7:6408729	RAC1:miR-495
rs16871368	chr7:6408729	RAC1:miR-194
rs836552	chr7:6409069	RAC1:miR-485-5p
rs3801455	chr7:11109747	PHF14:miR-496

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs6959246	chr7:16468177	SOSTDC1:miR-203.1
rs14556	chr7:16712557	BZW2:miR-101
rs28945080	chr7:16798714	AGR2:miR-431
rs35259071	chr7:19122056	TWIST1:miR-361
rs1045957	chr7:20421339	ITGB8:miR-19:2
rs55773150	chr7:22737929	IL6:miR-26
rs9807	chr7:26198130	HNRPA2B1:miR-539
rs11557711	chr7:26198127	HNRPA2B1:miR-539
rs7786554	chr7:27099494	HOXA1:miR-99/100
rs17449017	chr7:27099672	HOXA1:miR-181
rs41305921	chr7:27100130	HOXA1:miR-30-5p
rs17501104	chr7:27188448	HOXA11:miR-23
rs17501104	chr7:27188448	HOXA11:miR-323
rs3834868	chr7:29519322	CHN2:miR-543
rs35122558	chr7:32874624	KBTBD2:miR-155
rs11538084	chr7:35910740	SEPT7:miR-30-5p
rs1139448	chr7:41695599	INHBA:miR-205
rs56252693	chr7:44840507	H2AFV:miR-139
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520
rs3832522	chr7:44887769	PURB:miR-129-5p
rs55714052	chr7:72588662	BCL7B:miR-148/152
rs1059692	chr7:75771520	HSPB1:miR-539
rs1047963	chr7:77423669	PHTF2:miR-485-5p
rs9687	chr7:77484514	MAGI2:miR-27
rs10239654	chr7:83428167	SEMA3A:miR-379
rs1052015	chr7:90735667	FZD1:miR-496
rs2286845	chr7:93461394	BET1:miR-1/206
rs2272282	chr7:96478213	DLX6:miR-505
rs9327	chr7:97758537	BRI3:miR-496
rs1052296	chr7:98801746	ARPC1A:miR-542-3p
rs1804948	chr7:98892857	CPSF4:miR-214:2
rs1136510	chr7:99869644	BCDIN3:miR-218
rs35095297	chr7:100116401	PERQ1:miR-181:1
rs61220096	chr7:100116855	PERQ1:miR-132/212
rs11762601	chr7:100987767	EMID2:miR-340
rs62481785	chr7:106087352	FLJ36031:miR-10
rs62481785	chr7:106087352	FLJ36031:miR-125/351
rs59573982	chr7:112193225	TMEM168:miR-135
rs34249556	chr7:112247109	FLJ31818:miR-330
rs870266	chr7:112510757	GPR85:miR-25/32/92/363/367
rs13225586	chr7:120175764	KCND2:miR-363
rs13225617	chr7:120175840	KCND2:miR-200bc/429
rs34448193	chr7:128198142	CALU:miR-409-3p:1
rs41274233	chr7:128198200	CALU:miR-7
rs8597	chr7:128198658	CALU:miR-335:2
rs35049738	chr7:129183018	NRF1:miR-485-5p
rs1733860	chr7:130836535	PODXL:miR-181
rs2718145	chr7:134305178	CALD1:let-7/98
rs1137082	chr7:134305810	CALD1:miR-27:2
rs17168525	chr7:135263802	MTPN:let-7/98
rs17168525	chr7:135263802	MTPN:miR-181

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs11347909	chr7:137210379	CREB3L2:miR-129-5p
rs11546286	chr7:137210384	CREB3L2:miR-129-5p
rs59223079	chr7:137210383	CREB3L2:miR-129-5p
rs13233916	chr7:138524956	TTC26:miR-124.2/506
rs14250	chr7:139370114	PARP12:miR-199
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1
rs1062892	chr7:148129059	CUL1:miR-493-5p
rs8829	chr7:148135551	EZH2:miR-101:2
rs8829	chr7:148135551	EZH2:miR-144
rs11977913	chr7:150409114	TMUB1:miR-27
rs11977913	chr7:150409114	TMUB1:miR-128
rs12673423	chr7:151463167	MLL3:miR-485-3p:2
rs62481481	chr7:151463368	MLL3:miR-490
rs61043189	chr7:151464268	MLL3:miR-130/301
rs34664602	chr8:1638873	DLGAP2:miR-33
rs34664602	chr8:1638873	DLGAP2:miR-129-5p:2
rs34664602	chr8:1638873	DLGAP2:miR-450:2
rs11554626	chr8:17132040	CNOT7:miR-363
rs34341867	chr8:22334511	SLC39A14:miR-490
rs1059594	chr8:22533745	KIAA1967:miR-138
rs7001041	chr8:22534630	BIN3:miR-184
rs13262813	chr8:23756598	STC1:miR-9:2
rs60163317	chr8:23758153	STC1:miR-101:1
rs4056572	chr8:25341643	KCTD9:miR-203.1
rs1058457	chr8:26571493	DPYSL2:miR-409-5p
rs35258691	chr8:26571486	DPYSL2:miR-409-5p
rs11548610	chr8:38389779	FGFR1:miR-330
rs1802265	chr8:38829418	TACC1:miR-96:2
rs11558227	chr8:42382254	VDAC3:miR-7
rs11558227	chr8:42382254	VDAC3:miR-9
rs1056553	chr8:53188182	ST18:miR-130/301
rs11782817	chr8:57236787	PLAG1:miR-224
rs11782817	chr8:57236787	PLAG1:miR-128
rs11782817	chr8:57236787	PLAG1:miR-27
rs11782817	chr8:57236787	PLAG1:miR-144
rs12549293	chr8:57238522	PLAG1:miR-19:1
rs60220895	chr8:71186929	NCOA2:miR-448
rs1802744	chr8:81111482	TPD52:miR-103/107
rs28988885	chr8:89121270	MMP16:miR-223:1
rs62526888	chr8:91706943	TMEM64:miR-19
rs3830308	chr8:92040248	EFCBP1:miR-186
rs34984375	chr8:92040255	EFCBP1:miR-186
rs34984375	chr8:92040255	EFCBP1:miR-142-5p
rs36028712	chr8:97223966	GDF6:miR-155
rs13268309	chr8:101784552	PABPC1:miR-129-5p:1
rs11551354	chr8:102002011	YWHAZ:miR-30-5p
rs61058951	chr8:102769800	NCALD:miR-19
rs1802766	chr8:103730242	KLF10:miR-19
rs2809	chr8:103908539	AZIN1:miR-96
rs1053039	chr8:106885662	ZFPM2:miR-142-5p:3
rs35654205	chr8:106885687	ZFPM2:miR-145
rs56344098	chr8:107833601	OXR1:miR-381

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs12542906	chr8:107833970	OXR1:miR-7
rs45624134	chr8:108332910	ANGPT1:miR-496
rs36026586	chr8:108981896	RSPO2:miR-101
rs36026586	chr8:108981896	RSPO2:miR-144
rs1045664	chr8:113304383	CSMD3:miR-496:1
rs3134037	chr8:120005452	TNFRSF11B:miR-216
rs3134038	chr8:120005457	TNFRSF11B:miR-216
rs1045923	chr8:124896020	FAM91A1:miR-433-3p
rs11539702	chr8:127634366	FAM84B:miR-335
rs4736611	chr8:133927894	PHF20L1:miR-181
rs41315635	chr8:141737902	PTK2:miR-199
rs5895799	chr8:145062072	PLEC1:miR-124.2/506:1
rs11546262	chr8:145555605	GPR172A:miR-122
rs17848373	chr9:2643931	VLDLR:miR-149
rs35275364	chr9:5764270	KIAA1432:miR-200bc/429
rs35104633	chr9:5909068	KIAA2026:miR-132/212
rs62536166	chr9:8304850	PTPRD:miR-148/152
rs62536166	chr9:8304850	PTPRD:miR-153
rs35029845	chr9:14072679	NFIB:miR-129-5p:1
rs34826751	chr9:14072836	NFIB:miR-339:2
rs3209160	chr9:14608316	ZDHHC21:miR-196
rs13284437	chr9:14608930	ZDHHC21:miR-338
rs3179845	chr9:16406403	BNC2:miR-452
rs41271151	chr9:23682125	ELAVL2:miR-30-5p:1
rs7847710	chr9:23682251	ELAVL2:miR-203.1
rs13297394	chr9:32530842	TOPORS:miR-488
rs1053447	chr9:35046679	VCP:miR-410
rs1053318	chr9:35046961	VCP:miR-339
rs1803193	chr9:36201913	CLTA:miR-494:1
rs41278297	chr9:37428158	ZBTB5:miR-29:2
rs35012461	chr9:37500952	FBXO10:miR-27
rs41286035	chr9:72031225	MAMDC2:miR-217
rs3182600	chr9:74159224	ZFAND5:miR-496
rs3182600	chr9:74159224	ZFAND5:miR-369-3p
rs58089946	chr9:94515161	BICD2:miR-340
rs3185785	chr9:95122598	WNK2:miR-409-5p
rs35142495	chr9:97248128	PTCH1:miR-381:1
rs41283642	chr9:100955708	TGFBR1:miR-142-3p
rs61478212	chr9:107192553	SLC44A1:miR-485-5p
rs11550076	chr9:109287173	KLF4:miR-25/32/92/363/367:2
rs11788360	chr9:109287485	KLF4:miR-25/32/92/363/367:1
rs28361184	chr9:110744730	CTNNAL1:miR-383
rs5843	chr9:112046241	TXN:miR-30-3p
rs12554972	chr9:115857743	ZNF618:miR-24*
rs56084401	chr9:123587535	DAB2IP:miR-493-5p
rs16912239	chr9:124621959	PDCL:miR-30-5p
rs803718	chr9:124906093	RABGAP1:miR-329
rs45448502	chr9:124906091	RABGAP1:miR-329
rs45610639	chr9:124906095	RABGAP1:miR-329
rs57915501	chr9:124906096	RABGAP1:miR-329
rs58775479	chr9:124927522	STRBP:miR-26:2
rs3842224	chr9:125183255	DENND1A:miR-130/301



**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs1110026	chr9:126324572	NR6A1:miR-377
rs41274378	chr9:126324569	NR6A1:miR-377
rs56802879	chr9:129534766	TOR2A:miR-380-5p
rs13298797	chr9:129909719	SLC25A25:miR-214
rs56801132	chr9:130719172	LRRC8A:miR-330
rs1801987	chr9:134759673	TSC1:miR-320:2
rs60350364	chr9:137841332	CAMSAP1:miR-539
rs3780189	chr9:138238037	QSCN6L1:miR-323
rs12554630	chr9:139629474	ARRDC1:miR-124.2/506
rs59628511	chr9:139629475	ARRDC1:miR-124.2/506
rs17293531	chr10:848207	LARP5:miR-409-5p:1
rs58712778	chr10:5490413	NET1:miR-218
rs59371569	chr10:5490414	NET1:miR-218
rs56784469	chr10:8156073	GATA3:miR-433-3p
rs3839918	chr10:8156247	GATA3:miR-27
rs12782127	chr10:8156298	GATA3:miR-144
rs12782127	chr10:8156298	GATA3:miR-101
rs9702112	chr10:11413130	CUGBP2:miR-493-5p
rs9702112	chr10:11413130	CUGBP2:miR-486
rs10701445	chr10:11413424	CUGBP2:miR-23:2
rs10701445	chr10:11413424	CUGBP2:miR-323:2
rs3057294	chr10:11542660	USP6NL:miR-410
rs61048750	chr10:11542657	USP6NL:miR-410
rs35402411	chr10:18869232	CACNB2:miR-543
rs5783611	chr10:18869987	CACNB2:miR-30-5p
rs33980121	chr10:18869988	CACNB2:miR-30-5p
rs16921055	chr10:21110991	NEBL:miR-410
rs34788823	chr10:21111908	NEBL:miR-218:2
rs1062669	chr10:21112690	NEBL:miR-129-5p
rs1062669	chr10:21112690	NEBL:miR-450
rs12360165	chr10:21842520	FLJ45187:miR-338
rs12360168	chr10:21842580	FLJ45187:miR-93/291-3p/294/295/302/372/373/520
rs12360168	chr10:21842580	FLJ45187:miR-130/301:3
rs12360168	chr10:21842580	FLJ45187:miR-19:1
rs1127941	chr10:24912575	ARHGAP21:miR-145
rs1127941	chr10:24912575	ARHGAP21:miR-199
rs3184313	chr10:24912974	ARHGAP21:miR-183
rs59203025	chr10:31856614	ZEB1:miR-150
rs11545325	chr10:35541028	CREM:miR-153
rs11545325	chr10:35541028	CREM:miR-448
rs2435355	chr10:42944839	RET:miR-377
rs12779224	chr10:64236557	C10orf22:miR-181
rs1046519	chr10:64584457	NRBF2:miR-495
rs1046521	chr10:64584473	NRBF2:miR-329
rs59457804	chr10:69346428	SIRT1:miR-30-5p
rs2234975	chr10:69348084	SIRT1:miR-141/200a
rs34193846	chr10:72190801	ADAMTS14:miR-125/351
rs11192	chr10:73705722	DDIT4:miR-433-3p
rs1052605	chr10:82268316	TSPAN14:miR-24
rs11817303	chr10:86268245	KIAA1128:miR-374
rs3832648	chr10:92491648	HTR7:miR-504
rs1138369	chr10:97912481	ZNF518:miR-30-5p:2

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs11592969	chr10:98344802	PIK3AP1:miR-30-3p
rs1132364	chr10:101143927	CNNM1:miR-542-3p
rs1135170	chr10:102578873	PAX2:miR-153
rs1135170	chr10:102578873	PAX2:miR-448
rs34928771	chr10:102712639	C10orf6:miR-130/301:1
rs1057054	chr10:104230569	ACTR1A:miR-17-5p/20/93/106/519.d
rs3184159	chr10:104565974	NM_001083913:miR-128
rs3184159	chr10:104565974	NM_001083913:miR-27:2
rs57707166	chr10:105138640	TAF5:miR-26
rs59729564	chr10:108324167	SORCS1:miR-452
rs59729564	chr10:108324167	SORCS1:miR-363
rs59729564	chr10:108324167	SORCS1:miR-500
rs34154255	chr10:108326704	SORCS1:miR-383
rs7834	chr10:111614759	XPNPEP1:miR-452
rs11414194	chr10:112036254	MXI1:miR-320:2
rs2233938	chr10:112043876	SMNDC1:miR-143
rs17235332	chr10:115584567	DCLRE1A:miR-155
rs238739	chr10:115795379	ADRB1:miR-30-5p
rs12774945	chr10:116613930	KIAA1600:miR-194
rs41284400	chr10:119755562	RAB11FIP2:miR-15/16/195/424/497
rs3740550	chr10:119757494	RAB11FIP2:miR-361
rs578853	chr10:120784663	EIF3S10:miR-505
rs1147627	chr10:120785256	EIF3S10:miR-23
rs1147627	chr10:120785256	EIF3S10:miR-323
rs5788356	chr10:121205054	GRK5:miR-23
rs5788356	chr10:121205054	GRK5:miR-323
rs35819635	chr10:123228968	FGFR2:miR-496
rs41294349	chr10:123228976	FGFR2:miR-338
rs3763763	chr10:124003594	TACC2:miR-25/32/92/363/367
rs15151	chr10:124003927	TACC2:miR-31
rs1058510	chr10:126667068	NM_001083914:miR-381
rs34107887	chr10:131525672	EBF3:miR-145:1
rs2804005	chr10:134445693	INPP5A:miR-485-5p:2
rs1049499	chr11:484545	RNH1:miR-142-5p
rs1049499	chr11:484545	RNH1:miR-17-5p/20/93/106/519.d
rs55806563	chr11:1534268	DUSP8:miR-410
rs55806563	chr11:1534268	DUSP8:miR-369-3p
rs55806563	chr11:1534268	DUSP8:miR-374
rs1052593	chr11:2861449	CDKN1C:miR-363
rs9659	chr11:6189229	C11orf56:miR-324-3p
rs7487	chr11:6590765	TPP1:miR-130/301
rs4351800	chr11:7446395	SYT9:miR-544
rs1050662	chr11:8671508	ST5:miR-146
rs4698	chr11:10285343	ADM:miR-181
rs1804746	chr11:10775207	EIF4G2:miR-381
rs60084655	chr11:13709382	MLSTD2:miR-224
rs4923029	chr11:22790705	GAS2:miR-124.1
rs4923029	chr11:22790705	GAS2:miR-124.2/506
rs17243566	chr11:26639501	TMEM16C:miR-19
rs58597651	chr11:27635370	BDNF:miR-495:3
rs11031785	chr11:32418069	WIT1:miR-488
rs34066019	chr11:34637413	EHF:miR-155

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs10551096	chr11:35598852	FJX1:miR-17-5p/20/93/106/519.d
rs12271205	chr11:36441800	FLJ14213:miR-19
rs11544603	chr11:43321201	API5:miR-330:2
rs12222637	chr11:45860385	CRY2:miR-24
rs708228	chr11:57342238	NM_001085458:miR-29
rs633713	chr11:58141817	ZFP91:miR-129-5p
rs1058021	chr11:60926820	FLJ12529:miR-361
rs1050059	chr11:62040026	AHNAK:miR-17-5p/20/93/106/519.d
rs34005543	chr11:63480219	NAT11:miR-199
rs34502085	chr11:63728474	STIP1:miR-324-3p
rs1047262	chr11:63845831	PRDX5:miR-25/32/92/363/367
rs12223318	chr11:65566404	GAL3ST3:miR-24
rs3831389	chr11:65800319	RAB1B:miR-18
rs1043243	chr11:65801065	RAB1B:miR-124.1
rs1189693	chr11:66033514	DPP3:miR-34/449
rs3212896	chr11:69176143	CCND1:miR-338
rs3179565	chr11:69908143	PPFIA1:miR-34/449
rs3182802	chr11:73066418	RAB6A:miR-218
rs11236380	chr11:74654425	ARRB1:miR-22
rs11540515	chr11:75531268	UVRAG:miR-125/351
rs2852487	chr11:77607491	GAB2:miR-9
rs34488116	chr11:85347206	PICALM:miR-1/206
rs36094205	chr11:85347218	PICALM:miR-217
rs15135	chr11:86334451	FZD4:miR-101:2
rs15135	chr11:86334451	FZD4:miR-144:2
rs61088092	chr11:86339005	FZD4:miR-219
rs3740662	chr11:86339591	FZD4:miR-27
rs34021269	chr11:86711650	TMEM135:miR-199
rs34021269	chr11:86711650	TMEM135:miR-145
rs11574857	chr11:93919323	FUT4:miR-23
rs11574857	chr11:93919323	FUT4:miR-323
rs1130354	chr11:112786130	DRD2:miR-326
rs1048876	chr11:114552104	CADM1:miR-124.2/506
rs649555	chr11:116662588	BACE1:miR-24*
rs608176	chr11:117538999	SCN2B:miR-141/200a
rs9332868	chr11:117898633	MLL:miR-150
rs35180728	chr11:117978797	ARCN1:miR-409-3p
rs35180728	chr11:117978797	ARCN1:miR-1/206
rs60711103	chr11:118127037	DDX6:miR-381
rs1063930	chr11:118272182	BCL9L:miR-23
rs61900003	chr11:118712580	RNF26:miR-153
rs61900003	chr11:118712580	RNF26:miR-448
rs4083121	chr11:122998651	NM_020716:miR-376c
rs3737336	chr11:125335907	CDON:miR-181
rs1049496	chr11:125789619	ST3GAL4:miR-326
rs1128334	chr11:127834169	ETS1:miR-381
rs41302401	chr11:128186433	FLI1:miR-9
rs11555857	chr11:131711301	HNT:miR-495:2
rs34429881	chr12:263637	JARID1A:miR-194
rs34429881	chr12:263637	JARID1A:miR-132/212:2
rs1042536	chr12:2783296	FKBP4:miR-485-5p
rs34524099	chr12:4280780	CCND2:miR-191

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs55944753	chr12:4282996	CCND2:miR-182:1
rs55944753	chr12:4282996	CCND2:miR-96:1
rs61635955	chr12:4792800	KCNA6:miR-153
rs61635955	chr12:4792800	KCNA6:miR-448
rs61907267	chr12:4896527	KCNA1:miR-409-5p
rs1049342	chr12:6549558	CHD4:miR-140
rs11539540	chr12:6549558	CHD4:miR-140
rs16932921	chr12:6798830	CD4:miR-181
rs56151134	chr12:6798839	CD4:miR-221/222
rs1062836	chr12:8140317	NECAP1:miR-143
rs11052877	chr12:9796957	CD69:miR-130/301
rs34166149	chr12:11935661	ETV6:miR-369-3p
rs34166149	chr12:11935661	ETV6:miR-374
rs34166149	chr12:11935661	ETV6:miR-410
rs17848277	chr12:12165110	LRP6:miR-183
rs11544620	chr12:12688806	CREBL2:miR-192/215
rs4283039	chr12:15664744	EPS8:miR-200bc/429:1
rs34050861	chr12:22734407	ETNK1:miR-148/152
rs57976936	chr12:25253807	KRAS:miR-200bc/429
rs57976936	chr12:25253807	KRAS:miR-193
rs35415589	chr12:27846793	KLHDC5:miR-486
rs12227395	chr12:41128411	PPHLN1:miR-141/200a
rs55774542	chr12:46524434	VDR:miR-125/351
rs3729973	chr12:47448520	ADCY6:miR-204/211:1
rs59990555	chr12:48012593	C1QL4:miR-27
rs7132908	chr12:48549415	FAIM2:miR-326
rs1050729	chr12:48779867	SMARCD1:miR-214:2
rs36125542	chr12:48780354	SMARCD1:miR-223
rs34307147	chr12:48780369	SMARCD1:miR-491
rs4298982	chr12:49156696	LARP4:miR-192/215
rs1061804	chr12:49925485	LOC57228:miR-24
rs12830128	chr12:50499672	LOC401720:miR-378
rs5798239	chr12:51890837	RARG:miR-331
rs59318278	chr12:52159621	PCBP2:miR-17-5p/20/93/106/519.d
rs59318278	chr12:52159621	PCBP2:miR-142-5p
rs11554014	chr12:52735990	HOXC4:miR-26
rs4016669	chr12:52964959	HNRPA1:miR-135:1
rs14932	chr12:56210098	MBD6:miR-150:2
rs59237119	chr12:56264700	KIF5A:miR-124.1
rs1059477	chr12:56500153	CTDSP2:miR-128:2
rs1059477	chr12:56500153	CTDSP2:miR-27
rs11174462	chr12:61085668	USP15:miR-181:2
rs1042741	chr12:64645530	HMGA2:miR-7
rs1042742	chr12:64645531	HMGA2:miR-7
rs1137465	chr12:65993708	CAND1:miR-369-3p
rs1137465	chr12:65993708	CAND1:miR-374
rs11613884	chr12:67950030	CPSF6:miR-125/351
rs61759448	chr12:68258913	FRS2:miR-381:3
rs503881	chr12:68259471	FRS2:miR-145
rs12813359	chr12:69034753	CNOT2:let-7/98
rs1046209	chr12:75270302	OSBPL8:miR-495:2
rs1245667	chr12:78368592	SYT1:miR-148/152

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs13599	chr12:91061508	BTG1:miR-93/291-3p/294/295/302/372/373/520
rs1053642	chr12:92494062	SOCS2:miR-194
rs3730188	chr12:101315989	IGF1:miR-142-5p
rs3730223	chr12:101319491	IGF1:miR-495
rs5031032	chr12:101320262	IGF1:miR-1/206
rs5031032	chr12:101320262	IGF1:miR-409-3p
rs2307842	chr12:102865778	HSP90B1:miR-223
rs35780385	chr12:102865775	HSP90B1:miR-223
rs2466551	chr12:103037048	NFYB:miR-544
rs10187	chr12:107486933	ISCU:miR-210
rs1056172	chr12:108692637	C12orf34:miR-130/301
rs11540	chr12:108963674	FLJ40142:miR-15/16/195/424/497
rs1985752	chr12:111431809	PTPN11:miR-496
rs1043051	chr12:114881502	THRAP2:miR-129-5p:1
rs1803507	chr12:119624015	KIAA0152:miR-330
rs1045692	chr12:119686651	UNQ1887:miR-377
rs1801011	chr12:119686894	UNQ1887:miR-132/212
rs11538743	chr13:24813848	NUPL1:miR-124.1
rs11538743	chr13:24813848	NUPL1:miR-124.2/506
rs3205058	chr13:25492399	ATP8A2:miR-377
rs9568845	chr13:32576715	STARD13:miR-148/152
rs9568845	chr13:32576715	STARD13:miR-130/301
rs56727582	chr13:34946516	MAB21L1:miR-543
rs3182615	chr13:35144333	NBEA:miR-494
rs45502300	chr13:35144512	NBEA:miR-190
rs17226809	chr13:38482916	C13orf23:miR-29
rs59425570	chr13:38483166	C13orf23:miR-124.1
rs34241243	chr13:40027924	FOXO1A:miR-135
rs17090557	chr13:40281861	SLC25A15:miR-125/351
rs17069218	chr13:46306351	HTR2A:miR-103/107
rs3720	chr13:49171604	KPNA3:miR-141/200a
rs1043729	chr13:49171832	KPNA3:miR-19
rs17073314	chr13:49171834	KPNA3:miR-19
rs7446	chr13:49173516	KPNA3:miR-500
rs9805470	chr13:50837391	INTS6:miR-495:1
rs41286098	chr13:73166801	KLF12:miR-542-3p
rs35549450	chr13:74758509	TBC1D4:miR-26
rs1062733	chr13:76477491	FBXL3:miR-142-5p
rs1062733	chr13:76477491	FBXL3:miR-17-5p/20/93/106/519.d
rs56071300	chr13:78792106	RBM26:miR-129-5p
rs59945183	chr13:79024809	NDFIP2:miR-135
rs34421625	chr13:87129243	SLITRK5:miR-221/222
rs57198481	chr13:87129246	SLITRK5:miR-221/222
rs61965610	chr13:94077468	GPR180:miR-25/32/92/363/367
rs9556713	chr13:96843159	MBNL2:miR-181
rs9556713	chr13:96843159	MBNL2:miR-496:2
rs15004	chr13:96844147	MBNL2:miR-203.1:1
rs12869870	chr13:99415306	ZIC5:miR-34/449
rs34432115	chr13:102128835	TPP2:miR-496:1
rs35335049	chr13:105994233	FLJ10154:miR-488
rs10555	chr13:106619235	LOC728215:miR-205
rs11545877	chr13:109600535	COL4A1:miR-205

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs1052322	chr14:20554809	NDRG2:miR-382
rs1052362	chr14:20554802	NDRG2:miR-382
rs1052904	chr14:22597718	ACIN1:miR-142-5p
rs1052904	chr14:22597718	ACIN1:miR-17-5p/20/93/106/519.d
rs11627863	chr14:23916846	NFATC4:miR-328
rs1042762	chr14:28308306	FOXP1B:miR-34/449
rs11152	chr14:30639168	HECTD1:miR-381
rs35768266	chr14:34251051	CFL2:miR-124.1
rs35816901	chr14:38571548	SEC23A:miR-23
rs35816901	chr14:38571548	SEC23A:miR-323
rs1053667	chr14:44612788	KIAA0423:miR-19
rs1053667	chr14:44612788	KIAA0423:miR-130/301
rs3742542	chr14:51264583	FRMD6:miR-183
rs10321	chr14:51541139	C14orf166:miR-186
rs41315098	chr14:51812345	PTGDR:miR-365
rs1134761	chr14:54011483	GMFB:miR-145:2
rs45513892	chr14:54601279	C14orf32:miR-219
rs45589533	chr14:54605757	C14orf32:miR-153
rs17128429	chr14:54889553	FBXO34:miR-30-5p
rs10701991	chr14:54905463	KIAA0831:miR-9
rs57390094	chr14:56337240	OTX2:miR-448:2
rs58246365	chr14:56337508	OTX2:miR-374
rs62004509	chr14:57100541	SLC35F4:miR-196
rs56135834	chr14:60508882	TRMT5:miR-205
rs17099190	chr14:61283927	HIF1A:miR-433-3p
rs8019084	chr14:61284203	HIF1A:miR-135
rs45487994	chr14:63221119	SGPP1:miR-25/32/92/363/367
rs12433504	chr14:66718103	GPHN:miR-375
rs10288	chr14:67283497	ZFYVE26:miR-29
rs34495503	chr14:68331672	FLJ39779:miR-488
rs11557771	chr14:68410996	ACTN1:miR-218
rs3209273	chr14:68411038	ACTN1:miR-19
rs45479600	chr14:70651801	PCNX:miR-200bc/429
rs1059326	chr14:74439138	DLST:miR-133
rs34247234	chr14:74620978	NEK9:miR-9
rs11557688	chr14:74621013	NEK9:miR-24
rs59771408	chr14:76561045	C14orf4:miR-34b
rs61331403	chr14:76561046	C14orf4:miR-34b
rs7158951	chr14:76812335	POMT2:miR-379
rs225019	chr14:79733709	DIO2:miR-141/200a
rs7159052	chr14:88004195	PTPN21:miR-30-5p
rs11548716	chr14:88692401	NM_001085471:miR-182
rs11548716	chr14:88692401	NM_001085471:miR-96
rs15414	chr14:89944277	CALM1:miR-133
rs1053463	chr14:90406959	RPS6KA5:miR-103/107
rs17127097	chr14:90407216	RPS6KA5:miR-204/211
rs35979920	chr14:91505736	TRIP11:miR-17-5p/20/93/106/519.d
rs61698538	chr14:92777965	BTBD7:miR-379
rs35463377	chr14:94625139	DICER1:miR-148/152
rs35463377	chr14:94625139	DICER1:miR-130/301
rs35463377	chr14:94625139	DICER1:miR-19
rs1044746	chr14:95080419	GLRX5:miR-148/152

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs56033032	chr14:96101306	PAPOLA:miR-490
rs12147717	chr14:96103097	PAPOLA:miR-330
rs56999125	chr14:98707712	BCL11B:miR-544
rs57547470	chr14:99814235	YY1:miR-410
rs7906	chr14:99869967	WARS:miR-125/351
rs1051022	chr14:99869973	WARS:miR-125/351
rs6478	chr14:101759646	WDR20:miR-369-3p
rs35659612	chr14:101759644	WDR20:miR-369-3p
rs6478	chr14:101759646	WDR20:miR-374
rs35659612	chr14:101759644	WDR20:miR-374
rs11704	chr14:101878408	C14orf131:miR-23
rs3122381	chr14:104679988	JAG2:miR-186:1
rs4779660	chr15:32312287	SLC12A6:miR-96
rs1059886	chr15:32459510	GOLGA8A:miR-25/32/92/363/367:1
rs4144689	chr15:32606811	GOLGA8B:miR-19
rs12101865	chr15:39847615	MGA:miR-326
rs34368044	chr15:41022788	UBR1:miR-142-5p
rs34368044	chr15:41022788	UBR1:miR-17-5p/20/93/106/519.d
rs3209488	chr15:41850875	PDIA3:miR-148/152
rs16941208	chr15:41953122	FRMD5:miR-539
rs1804977	chr15:42641455	EIF3S1:miR-142-5p
rs58383159	chr15:45852767	SEMA6D:miR-409-3p
rs58383159	chr15:45852767	SEMA6D:miR-1/206
rs1057636	chr15:47564249	FGF7:miR-493-5p
rs1057636	chr15:47564249	FGF7:miR-219
rs59338998	chr15:48640295	TRPM7:miR-9:2
rs9920139	chr15:52708007	UNC13C:miR-330
rs16976737	chr15:54171090	RFXDC2:miR-377
rs3751539	chr15:57175505	RNF111:miR-144:2
rs3751539	chr15:57175505	RNF111:miR-128
rs3751539	chr15:57175505	RNF111:miR-27:2
rs13498	chr15:57216106	MYO1E:miR-101
rs13498	chr15:57216106	MYO1E:miR-144
rs11553799	chr15:58426945	ANXA2:miR-185
rs58293779	chr15:60920161	TLN2:miR-200bc/429
rs62012486	chr15:63196809	PDCD7:miR-410
rs45615538	chr15:64861144	SMAD6:miR-25/32/92/363/367
rs62014610	chr15:65273054	SMAD3:miR-346
rs41305272	chr15:65886497	MAP2K5:miR-330
rs56165498	chr15:66382129	ITGA11:miR-29
rs61628540	chr15:70831616	ADPGK:miR-1/206
rs1043589	chr15:71639527	NPTN:miR-146
rs2071501	chr15:72882210	CSK:miR-216
rs4401017	chr15:73098690	SCAMP5:miR-299-5p
rs17337152	chr15:73099805	SCAMP5:miR-218
rs1062752	chr15:76977041	MORF4L1:miR-33
rs35065650	chr15:80121884	RKHD3:miR-26:1
rs1903	chr15:81597977	HDGFRP3:miR-129-5p
rs62019226	chr15:86322392	NTRK3:miR-384
rs1042499	chr15:88129309	ANPEP:miR-125/351
rs12148341	chr15:88424595	ZNF710:let-7/98
rs35979246	chr15:97319462	IGF1R:miR-15/16/195/424/497:1

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs35979246	chr15:97319462	IGF1R:miR-503
rs1802604	chr15:99274190	ALDH1A3:miR-144
rs1802604	chr15:99274190	ALDH1A3:miR-101
rs34131715	chr16:277501	AXIN1:miR-493-5p:2
rs45530432	chr16:277656	AXIN1:miR-128
rs45598439	chr16:638401	C16orf14:miR-128
rs7187345	chr16:3953930	ADCY9:miR-7
rs3169377	chr16:4373259	VASN:miR-205:1
rs59846291	chr16:5015193	NAGPA:miR-182
rs59846291	chr16:5015193	NAGPA:miR-96
rs8191348	chr16:11680454	TXNDC11:miR-539
rs35715530	chr16:15597464	KIAA0430:miR-124.2/506
rs12907	chr16:15726154	NDE1:miR-28
rs7764	chr16:22252692	POLR3E:miR-504
rs717632	chr16:22986297	USP31:miR-539
rs3380	chr16:24133766	PRKCB1:miR-494
rs3837785	chr16:24134462	PRKCB1:miR-129-5p
rs3837785	chr16:24134462	PRKCB1:miR-450
rs56687328	chr16:24134558	PRKCB1:miR-330:2
rs10055	chr16:24743377	TNRC6A:miR-30-5p:2
rs34646740	chr16:29729337	MAZ:miR-34/449
rs11558997	chr16:29729500	MAZ:miR-331
rs12831	chr16:29989062	ALDOA:miR-122
rs16952445	chr16:29989066	ALDOA:miR-122
rs1062379	chr16:29989207	ALDOA:miR-34/449
rs61764225	chr16:30033309	MAPK3:miR-15/16/195/424/497:2
rs61764225	chr16:30033309	MAPK3:miR-15/16/195/424/497:1
rs34494127	chr16:30588903	FBS1:miR-493-5p
rs1048622	chr16:30692947	RNF40:miR-125/351
rs1048622	chr16:30692947	RNF40:miR-331
rs35676536	chr16:30692952	RNF40:miR-331
rs4617878	chr16:30698964	ZNF629:miR-149
rs1054478	chr16:49727522	SALL1:miR-17-5p/20/93/106/519.d
rs10653661	chr16:51029922	TOX3:miR-23
rs10653661	chr16:51029922	TOX3:miR-323
rs16745	chr16:52083232	AKTIP:miR-101
rs16745	chr16:52083232	AKTIP:miR-144
rs1799839	chr16:54097153	MMP2:miR-29
rs15104	chr16:55535157	HERPUD1:miR-370
rs9927827	chr16:65691603	CBFB:miR-365
rs35351303	chr16:65692369	CBFB:miR-124.1
rs35351303	chr16:65692369	CBFB:miR-124.2/506
rs7203660	chr16:66949983	SMPD3:miR-144
rs3169307	chr16:67709509	CTF8:miR-128
rs57248403	chr16:68287915	NFAT5:miR-103/107
rs12232410	chr16:68294352	NFAT5:miR-30-5p:2
rs1053412	chr16:71374408	ATBF1:miR-542-3p
rs1053410	chr16:71374584	ATBF1:miR-129-5p:2
rs3841241	chr16:71376466	ATBF1:miR-494:1
rs12599021	chr16:75150134	CNTNAP4:miR-331
rs59581308	chr16:78187920	MAF:miR-410
rs16974598	chr16:83370524	USP10:miR-138



**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs3210967	chr16:83566964	ZDHHC7:miR-148/152
rs11544837	chr16:84264538	KIAA0182:miR-495
rs1054528	chr16:85994265	MAP1LC3B:miR-204/211
rs2873702	chr16:85994261	MAP1LC3B:miR-204/211
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d
rs15219	chr17:1194712	YWHAE:miR-26
rs35409499	chr17:1272887	CRK:miR-1/206
rs3215740	chr17:1909433	NM_001098202:miR-328
rs35019711	chr17:2174605	SRR:miR-299-5p
rs35019711	chr17:2174605	SRR:miR-140
rs35379403	chr17:2234121	MNT:miR-30-3p
rs55976318	chr17:2532888	PAFAH1B1:miR-339
rs55976318	chr17:2532888	PAFAH1B1:miR-10
rs12150200	chr17:2883520	GARNL4:miR-214
rs2233658	chr17:4789820	PFN1:miR-140
rs3204914	chr17:5017940	USP6:miR-19:2
rs3204914	chr17:5017940	USP6:miR-130/301
rs3177209	chr17:7084472	GABARAP:miR-140
rs34782008	chr17:7288506	FGF11:miR-137
rs1133249	chr17:7415883	SENP3:miR-410
rs58537439	chr17:7415883	SENP3:miR-410
rs58805209	chr17:7415885	SENP3:miR-410
rs1048750	chr17:7984600	PER1:miR-146
rs1051780	chr17:8003781	VAMP2:miR-34b
rs1051780	chr17:8003781	VAMP2:miR-34/449:1
rs1140676	chr17:17029594	M-RIP:miR-19
rs1077790	chr17:17338614	RASD1:miR-17-5p/20/93/106/519.d
rs1077790	chr17:17338614	RASD1:miR-130/301
rs9914083	chr17:17687821	TOM1L2:miR-19
rs10648639	chr17:17910490	C17orf39:miR-96
rs10648639	chr17:17910490	C17orf39:miR-182
rs34010550	chr17:21260985	KCNJ12:miR-30-5p
rs56916727	chr17:22663740	WSB1:miR-128
rs56916727	chr17:22663740	WSB1:miR-27
rs35381358	chr17:23679741	IFT20:miR-129-5p:2
rs34984874	chr17:24108534	C17orf63:miR-129-5p
rs1064133	chr17:24965873	ANKRD13B:miR-421
rs56295612	chr17:24977271	SSH2:miR-421
rs35128012	chr17:25817389	CPD:miR-331
rs3744365	chr17:30537704	UNC45B:miR-324-5p
rs58650684	chr17:34175710	PIP5K2B:miR-23
rs58650684	chr17:34175710	PIP5K2B:miR-323
rs3744348	chr17:34671101	FBXL20:miR-326:1
rs1044675	chr17:35330858	ORMDL3:miR-200bc/429
rs11550320	chr17:37100703	EIF1:miR-381
rs1804484	chr17:37100758	EIF1:miR-25/32/92/363/367
rs5001709	chr17:37134071	HAP1:miR-328
rs5001709	chr17:37134071	HAP1:miR-339
rs3207626	chr17:37234999	NT5C3L:miR-323
rs1042415	chr17:37530692	RAB5C:miR-24
rs1802740	chr17:37531149	RAB5C:miR-18

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs34694406	chr17:37605734	STAT5B:miR-141/200a:2
rs1051166	chr17:37985114	LOC162427:miR-27
rs1051166	chr17:37985114	LOC162427:miR-128:2
rs36087185	chr17:39441544	NAGS:miR-135
rs35468252	chr17:39469019	LSM12:miR-188
rs2903703	chr17:40828426	ARHGAP27:miR-23
rs2903703	chr17:40828426	ARHGAP27:miR-323
rs1047606	chr17:41463194	KIAA1267:miR-218
rs11539536	chr17:41463300	KIAA1267:miR-330
rs1136638	chr17:43115445	KPNB1:miR-218
rs1057111	chr17:43981705	HOXB3:miR-342
rs1057111	chr17:43981705	HOXB3:miR-128
rs1057111	chr17:43981705	HOXB3:miR-27
rs41315066	chr17:44054687	HOXB9:miR-151
rs62062994	chr17:45616977	COL1A1:miR-29:1
rs9398	chr17:46184799	CROP:miR-186:2
rs1802389	chr17:46184845	CROP:miR-141/200a
rs62081794	chr17:53404880	VEZF1:miR-495:3
rs4793924	chr17:53405033	VEZF1:miR-1/206
rs1051424	chr17:55379106	RPS6KB1:miR-500
rs1051424	chr17:55379106	RPS6KB1:miR-363:1
rs1051424	chr17:55379106	RPS6KB1:miR-129-5p
rs1051424	chr17:55379106	RPS6KB1:miR-450
rs1044519	chr17:57378383	THRAP1:miR-374
rs1044519	chr17:57378383	THRAP1:miR-369-3p:1
rs1048045	chr17:59129220	LIMD2:miR-24
rs11545620	chr17:59926303	DDX5:miR-325
rs9925	chr17:64039429	PRKAR1A:miR-539
rs56194813	chr17:65684270	KCNJ2:miR-455
rs57140103	chr17:65684605	KCNJ2:miR-193
rs11555392	chr17:67634027	SOX9:miR-495
rs11448561	chr17:67634112	SOX9:miR-381
rs3178287	chr17:70643683	HN1:miR-142-5p
rs34511924	chr17:70643677	HN1:miR-142-5p
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d
rs34511924	chr17:70643677	HN1:miR-17-5p/20/93/106/519.d
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520
rs35451907	chr17:71285185	H3F3B:miR-192/215
rs3073415	chr17:71285962	H3F3B:miR-10
rs3073415	chr17:71285962	H3F3B:miR-486
rs2410864	chr17:71286117	H3F3B:miR-132/212
rs1044900	chr17:71778295	FAM100B:miR-199
rs1044900	chr17:71778295	FAM100B:miR-145
rs6728	chr17:74181828	PSCD1:miR-10
rs6728	chr17:74181828	PSCD1:miR-339
rs59650175	chr17:75421687	CBX4:miR-129-5p
rs59650175	chr17:75421687	CBX4:miR-450
rs59650175	chr17:75421687	CBX4:miR-363
rs57367856	chr17:76055542	NPTX1:miR-182
rs57367856	chr17:76055542	NPTX1:miR-96
rs1139414	chr17:77091694	ACTG1:miR-186
rs1140892	chr17:77091951	ACTG1:miR-10

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs11549170	chr17:77091946	ACTG1:miR-10
rs11549163	chr17:77092126	ACTG1:miR-381:2
rs56201915	chr17:77092121	ACTG1:miR-381:2
rs11549165	chr17:77092165	ACTG1:miR-361
rs55978907	chr17:77092170	ACTG1:miR-361
rs28478053	chr17:77092177	ACTG1:miR-381:1
rs55978907	chr17:77092170	ACTG1:miR-381:1
rs8069008	chr17:77135520	NPLOC4:miR-124.1
rs9674738	chr17:77135519	NPLOC4:miR-124.1
rs8069008	chr17:77135520	NPLOC4:miR-124.2/506
rs9674738	chr17:77135519	NPLOC4:miR-124.2/506
rs12190	chr18:309935	COLEC12:miR-30-3p
rs59418799	chr18:8628702	RAB12:miR-186
rs3025551	chr18:9944733	VAPA:miR-421
rs14462	chr18:16784002	ROCK1:miR-323
rs17497862	chr18:23785137	CDH2:miR-129-5p
rs61567164	chr18:23785138	CDH2:miR-129-5p
rs1061978	chr18:27432716	TTR:miR-141/200a
rs9950418	chr18:30722110	DTNA:miR-19:1
rs35943974	chr18:31171008	ZNF24:miR-34b
rs60413372	chr18:33078536	BRUNOL4:miR-129-5p:2
rs12326122	chr18:42888443	HDHD2:miR-326
rs12326122	chr18:42888443	HDHD2:miR-149
rs3813088	chr18:46511940	MAPK4:miR-496
rs1272363	chr18:51041939	NM_001083962:miR-204/211
rs1799409	chr18:51041935	NM_001083962:miR-204/211
rs2510125	chr18:51042359	NM_001083962:miR-495:3
rs576343	chr18:53301327	ONECUT2:miR-9:6
rs11543269	chr18:53464995	ATP8B1:miR-181
rs41332251	chr18:55149141	LMAN1:miR-140
rs35905430	chr18:58124119	KIAA1468:miR-496
rs28501624	chr18:58797860	PHLPP:miR-495:1
rs4987843	chr18:58946521	BCL2:miR-182:2
rs1055002	chr18:59208773	VPS4B:miR-496
rs35279077	chr18:66146136	SOCS6:miR-504
rs34767247	chr18:71130294	TSHZ1:miR-129-5p
rs34767247	chr18:71130294	TSHZ1:miR-450
rs1065363	chr19:960919	C19orf6:miR-124.2/506
rs11550178	chr19:1208730	MIDN:miR-17-5p/20/93/106/519.d
rs1801938	chr19:2052071	AP3D1:miR-1/206
rs1801940	chr19:2052165	AP3D1:miR-17-5p/20/93/106/519.d
rs1801940	chr19:2052165	AP3D1:miR-542-3p
rs35757137	chr19:6364851	KHSRP:miR-129-5p
rs1049232	chr19:6702293	TRIP10:miR-17-5p/20/93/106/519.d
rs2307000	chr19:7835531	EVI5L:miR-96
rs2307000	chr19:7835531	EVI5L:miR-182
rs1054621	chr19:8492147	MYO1F:let-7/98
rs45587445	chr19:10439915	PDE4A:miR-7
rs56214729	chr19:11425661	ELAVL3:miR-129-5p:2
rs1128572	chr19:11522116	CNN1:miR-218
rs1059298	chr19:12925418	RAD23A:miR-361
rs1059720	chr19:13902585	CC2D1A:miR-9

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs41296316	chr19:14064836	PRKACA:miR-149
rs1803768	chr19:14487197	DNAJB1:miR-137
rs11555160	chr19:15218942	BRD4:miR-493-5p
rs1045747	chr19:18149898	IFI30:miR-29
rs12610417	chr19:19477651	GATAD2A:miR-128
rs12610417	chr19:19477651	GATAD2A:miR-27
rs3218074	chr19:35007016	CCNE1:miR-15/16/195/424/497:2
rs3218074	chr19:35007016	CCNE1:miR-503:2
rs34364406	chr19:38996519	KCTD15:miR-378
rs11548915	chr19:39410703	LSM14A:miR-144:2
rs1044041	chr19:39410783	LSM14A:miR-381:1
rs57512913	chr19:39411087	LSM14A:miR-496
rs1802473	chr19:39652609	SAE2:miR-133
rs1063591	chr19:40209031	GRAMD1A:miR-133
rs10561	chr19:40462485	USF2:miR-186
rs14724	chr19:40462482	USF2:miR-186
rs3209590	chr19:40462481	USF2:miR-186
rs34766623	chr19:44361533	PAK4:miR-24
rs1049680	chr19:45576134	PLD3:miR-9
rs7259593	chr19:45638916	SERTAD3:miR-125/351
rs12982075	chr19:50575092	PPP1R13L:miR-124.1
rs12982075	chr19:50575092	PPP1R13L:miR-124.2/506
rs28381252	chr19:50668344	FOSB:miR-224
rs1055649	chr19:52033381	AP2S1:miR-34b
rs36119476	chr19:52624651	SLC8A2:miR-125/351
rs1052625	chr19:53990346	BCAT2:miR-122
rs1803581	chr19:54161892	FTL:miR-22
rs1803581	chr19:54161892	FTL:miR-320
rs6051679	chr20:325432	TRIB3:miR-124.2/506
rs1056976	chr20:412502	CSNK2A1:miR-411
rs3209499	chr20:2077179	STK35:miR-135
rs6115979	chr20:3579701	ATRN:miR-381
rs6104808	chr20:11855137	BTBD3:let-7/98
rs5840608	chr20:14253771	FLRT3:miR-496
rs34625832	chr20:14253772	FLRT3:miR-496
rs11908381	chr20:16201299	C20orf23:miR-433-3p
rs16435	chr20:23303456	NAPB:miR-200bc/429
rs11467962	chr20:23303457	NAPB:miR-200bc/429
rs3180935	chr20:25155017	ENTPD6:miR-24
rs3208684	chr20:29716466	BCL2L1:let-7/98
rs34271817	chr20:30489193	ASXL1:miR-7
rs6088021	chr20:30901080	MAPRE1:miR-30-5p
rs1062954	chr20:31708694	APBA2BP:miR-125/351:2
rs6141507	chr20:32764174	TP53INP2:miR-153
rs6141507	chr20:32764174	TP53INP2:miR-448
rs14206	chr20:33054185	TRPC4AP:miR-24:2
rs1052062	chr20:33166894	EDEM2:miR-199
rs62206361	chr20:35584875	NNAT:miR-488
rs3180636	chr20:42681090	PKIG:miR-377
rs11471509	chr20:43137601	STK4:miR-448
rs34259011	chr20:43137602	STK4:miR-448
rs1060891	chr20:43429453	SYS1:miR-24

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs2743430	chr20:43429868	SYS1:miR-326
rs6125065	chr20:45716821	NCOA3:miR-24*
rs2664575	chr20:47295885	ZNF1:miR-17-5p/20/93/106/519.d:2
rs2664575	chr20:47295885	ZNF1:miR-153
rs6067490	chr20:48633727	PTPN1:miR-1/206
rs6096082	chr20:48802663	PARD6B:miR-205
rs11469346	chr20:48803014	PARD6B:let-7/98
rs1058282	chr20:55178980	BMP7:miR-542-3p
rs7351122	chr20:55660128	TMEPA1:miR-25/32/92/363/367
rs6128327	chr20:56375963	RAB22A:miR-30-5p
rs61713651	chr20:56453967	VAPB:miR-376c
rs61713651	chr20:56453967	VAPB:miR-221/222
rs35295928	chr20:56687929	STX16:miR-493-5p
rs60585835	chr20:62059092	ZNF512B:let-7/98:3
rs34316071	chr20:62342550	MYT1:miR-146
rs56253511	chr21:10060673	BAGE5:miR-122
rs56253511	chr21:10060673	BAGE4:miR-122
rs56253511	chr21:10060673	BAGE3:miR-122
rs56253511	chr21:10060673	BAGE2:miR-122
rs59988518	chr21:15257131	NRIP1:miR-490
rs56741706	chr21:15257520	NRIP1:miR-328
rs3833344	chr21:17887954	BTG3:miR-142-5p
rs58652636	chr21:17887948	BTG3:miR-142-5p
rs2850036	chr21:34393355	SLC5A3:miR-124.2/506:1
rs2843955	chr21:34395976	SLC5A3:miR-539
rs11909973	chr21:42181394	C21orf25:miR-182
rs1058662	chr21:44230902	AGPAT3:miR-219
rs8140743	chr22:17499645	DGCR14:miR-130/301
rs35048893	chr22:17499642	DGCR14:miR-130/301
rs5844430	chr22:19271324	PCQAP:miR-125/351
rs34412877	chr22:19271327	PCQAP:miR-125/351
rs6005034	chr22:19637397	CRKL:miR-204/211
rs6005034	chr22:19637397	CRKL:miR-188
rs5753562	chr22:20133190	HIC2:miR-93/291-3p/294/295/302/372/373/520
rs41282589	chr22:20134488	HIC2:miR-423
rs34482610	chr22:20134518	HIC2:miR-129-5p:2
rs34482610	chr22:20134518	HIC2:miR-450
rs9609460	chr22:20134583	HIC2:miR-135
rs11557463	chr22:20135387	HIC2:miR-490
rs41282607	chr22:20448229	MAPK1:miR-217
rs3179038	chr22:20603809	PPM1F:miR-299-5p
rs3876062	chr22:21988769	BCR:miR-181
rs4275	chr22:25251725	TPST2:miR-124.2/506
rs2073859	chr22:30004553	LIMK2:miR-135
rs1802677	chr22:31588866	TIMP3:miR-181:1
rs1801820	chr22:31999178	LARGE:miR-30-5p
rs5755721	chr22:34120168	HMOX1:miR-377
rs8226	chr22:35007360	MYH9:miR-124.1
rs8226	chr22:35007360	MYH9:miR-124.2/506
rs62237489	chr22:36093966	LRRC62:miR-25/32/92/363/367
rs12483880	chr22:36381945	SH3BP1:miR-31
rs1054208	chr22:37016876	CSNK1E:miR-495

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs11548925	chr22:37016880	CSNK1E:miR-495
rs11544	chr22:37209524	DDX17:miR-26
rs5757243	chr22:37411989	JOSD1:miR-542-3p
rs56111992	chr22:38415556	CACNA1I:miR-377
rs4821943	chr22:39052691	TNRC6B:miR-384:2
rs139917	chr22:39053266	TNRC6B:miR-324-3p
rs12158004	chr22:39905895	EP300:miR-129-5p
rs12158004	chr22:39905895	EP300:miR-450
rs56176102	chr22:40160557	TOB2:miR-324-3p
rs56034233	chr22:43656328	PHF21B:miR-218
rs9614613	chr22:43959500	NUP50:miR-10
rs35783804	chr22:43961964	NUP50:miR-182
rs62231099	chr22:43961964	NUP50:miR-182
rs35783804	chr22:43961964	NUP50:miR-96
rs62231099	chr22:43961964	NUP50:miR-96
rs41279839	chr22:45452231	DIP:miR-135
rs3179	chr22:45454126	DIP:miR-543
rs1053764	chr22:49232361	SBF1:miR-30-5p
rs1804459	chrX:23713995	SAT1:miR-1/206
rs418560	chrX:31049688	DMD:miR-153
rs5927686	chrX:31049752	DMD:miR-139
rs5927686	chrX:31049752	DMD:miR-101
rs5927686	chrX:31049752	DMD:miR-144
rs708452	chrX:41094304	DDX3X:miR-139
rs14952	chrX:46959356	UBE1:miR-324-3p
rs2230265	chrX:54489231	FGD1:miR-491
rs3810701	chrX:63321797	FAM123B:miR-34b
rs3810701	chrX:63321797	FAM123B:miR-34/449
rs688969	chrX:67977956	EFNB1:miR-129-5p
rs3838388	chrX:67977953	EFNB1:miR-129-5p
rs20385	chrX:96743056	DIAPH2:miR-410
rs1045226	chrX:102204313	BEX1:miR-495
rs1045227	chrX:102204309	BEX1:miR-495
rs14470	chrX:102519439	NGFRAP1:miR-144
rs1804033	chrX:102519436	NGFRAP1:miR-144
rs14470	chrX:102519439	NGFRAP1:miR-128
rs14470	chrX:102519439	NGFRAP1:miR-27
rs1064553	chrX:102817323	MORF4L2:miR-29
rs2186106	chrX:117703930	DOCK11:miR-10
rs1804954	chrX:117809964	IL13RA1:miR-22
rs14279	chrX:119542689	CUL4B:miR-494
rs2281134	chrX:128756833	CXorf9:miR-137
rs4020657	chrX:135783437	RBMX:miR-129-5p
rs25722	chrX:146839569	FMR1:miR-182
rs25722	chrX:146839569	FMR1:miR-96
rs17426	chrX:153262810	EMD:miR-124.1
rs17427	chrX:153262811	EMD:miR-124.1
rs17426	chrX:153262810	EMD:miR-124.2/506
rs17427	chrX:153262811	EMD:miR-124.2/506
rs1048969	chrX:153368910	SLC10A3:miR-9:2
rs1048969	chrX:153368910	SLC10A3:miR-182
rs1048969	chrX:153368910	SLC10A3:miR-96

**Supplemental Table 3: SNPs in miRNA target sites based on TargetScanS prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>
rs3210290	chrY:7309562	PRKY:miR-495
rs2072126	chrY:13541140	DDX3Y:miR-15/16/195/424/497
rs2072126	chrY:13541140	DDX3Y:miR-503

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Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction

Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction

SNP	SNP Position (hg18)	PITA Prediction
rs2465136	chr1:980280	AGRN:miR-424
rs2465136	chr1:980280	AGRN:miR-802
rs13129	chr1:980702	AGRN:miR-27a
rs13129	chr1:980702	AGRN:miR-27b
rs3831113	chr1:1467189	SSU72:miR-153
rs7547323	chr1:1707890	GNB1:miR-520f
rs57126490	chr1:2429929	PANK4:miR-568
rs35705966	chr1:7750028	CAMTA1:miR-126*
rs34335657	chr1:7750490	CAMTA1:miR-129
rs41278970	chr1:8335143	RERE:miR-609
rs1801785	chr1:8335239	RERE:miR-648
rs1052434	chr1:9833120	CTNNBIP1:miR-559
rs1052434	chr1:9833120	CTNNBIP1:miR-577
rs61776020	chr1:10444236	DFFA:miR-632
rs58517232	chr1:10619316	CASZ1:miR-26a
rs58517232	chr1:10619316	CASZ1:miR-26b
rs59054467	chr1:10619316	CASZ1:miR-26a
rs59054467	chr1:10619316	CASZ1:miR-26b
rs17848570	chr1:11089932	FRAP1:miR-581
rs2754	chr1:11089939	FRAP1:miR-144
rs17848571	chr1:11089963	FRAP1:miR-646
rs1057081	chr1:11089999	FRAP1:miR-199a*
rs41303873	chr1:11902845	KIAA2013:miR-150
rs61776476	chr1:11902858	KIAA2013:miR-524*
rs11807940	chr1:12190929	TNFRSF1B:let-7e
rs7553242	chr1:15933265	PLEKHM2:miR-513
rs1060222	chr1:16138888	SPEN:miR-612
rs57997135	chr1:16594583	C1orf144:miR-569
rs1050027	chr1:19857460	NBL1:miR-520a*
rs1050027	chr1:19857460	NBL1:miR-525
rs1045038	chr1:20943854	HP1BP3:miR-433
rs41265991	chr1:21777425	ALPL:miR-583
rs12566171	chr1:22021617	LDLRAD2:miR-516-5p
rs12566171	chr1:22021617	LDLRAD2:miR-594
rs897468	chr1:22022274	HSPG2:miR-424
rs2229477	chr1:22022453	LDLRAD2:miR-331
rs61732880	chr1:22022705	LDLRAD2:miR-34a
rs61732880	chr1:22022705	LDLRAD2:miR-34c
rs61732880	chr1:22022705	LDLRAD2:miR-449
rs61732880	chr1:22022705	LDLRAD2:miR-449b
rs3736360	chr1:22022707	LDLRAD2:miR-34a
rs3736360	chr1:22022707	LDLRAD2:miR-34c
rs3736360	chr1:22022707	LDLRAD2:miR-449
rs3736360	chr1:22022707	LDLRAD2:miR-449b
rs3736359	chr1:22022743	LDLRAD2:miR-133a
rs3736359	chr1:22022743	LDLRAD2:miR-133b
rs3736358	chr1:22022747	LDLRAD2:miR-133a
rs3736358	chr1:22022747	LDLRAD2:miR-133b
rs3036806	chr1:22290849	CDC42:miR-653
rs1064241	chr1:22290906	CDC42:miR-532



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs28463010	chr1:22290980	CDC42:miR-801
rs16826566	chr1:22291953	CDC42:miR-659
rs41266043	chr1:22802104	EPHA8:miR-33
rs41266043	chr1:22802104	EPHA8:miR-129
rs41266949	chr1:23113780	EPHB2:miR-568
rs605775	chr1:23285614	LUZP1:miR-505
rs10903080	chr1:24554228	GRHL3:miR-144
rs1045334	chr1:24872248	SRRM1:miR-553
rs4024250	chr1:24872275	SRRM1:miR-589
rs34483190	chr1:25697771	TMEM57:miR-559
rs11583293	chr1:25767240	LDLRAP1:miR-593
rs11583293	chr1:25767240	LDLRAP1:miR-506
rs1063721	chr1:26099649	STMN1:miR-15a
rs1063721	chr1:26099649	STMN1:miR-15b
rs1063721	chr1:26099649	STMN1:miR-16
rs1063721	chr1:26099649	STMN1:miR-195
rs1063721	chr1:26099649	STMN1:miR-497
rs1063721	chr1:26099649	STMN1:miR-101
rs1063720	chr1:26099651	STMN1:miR-15a
rs1063720	chr1:26099651	STMN1:miR-15b
rs1063720	chr1:26099651	STMN1:miR-16
rs1063720	chr1:26099651	STMN1:miR-195
rs1063720	chr1:26099651	STMN1:miR-497
rs1063720	chr1:26099651	STMN1:miR-101
rs1063719	chr1:26099652	STMN1:miR-15a
rs1063719	chr1:26099652	STMN1:miR-15b
rs1063719	chr1:26099652	STMN1:miR-16
rs1063719	chr1:26099652	STMN1:miR-195
rs1063719	chr1:26099652	STMN1:miR-497
rs1063719	chr1:26099652	STMN1:miR-101
rs1804097	chr1:26099941	STMN1:miR-653
rs1804097	chr1:26099941	STMN1:miR-570
rs2275946	chr1:26250422	TRIM63:miR-653
rs2275946	chr1:26250422	TRIM63:miR-570
rs56325816	chr1:26321944	PDIK1L:miR-320
rs56325816	chr1:26321944	PDIK1L:miR-548a
rs56325816	chr1:26321944	PDIK1L:miR-146a
rs56325816	chr1:26321944	PDIK1L:miR-146b
rs17163588	chr1:26322596	PDIK1L:miR-592
rs17163868	chr1:26520968	AIM1L:miR-562
rs17163868	chr1:26520968	AIM1L:miR-581
rs34867130	chr1:26628492	LIN28:miR-302a*
rs61005297	chr1:26628494	LIN28:miR-302a*
rs61005297	chr1:26628494	LIN28:miR-30a-5p
rs61005297	chr1:26628494	LIN28:miR-30b
rs61005297	chr1:26628494	LIN28:miR-30c
rs61005297	chr1:26628494	LIN28:miR-30d
rs61005297	chr1:26628494	LIN28:miR-30e-5p
rs11554702	chr1:26674295	HMG2:miR-499
rs9725396	chr1:26674355	HMG2:miR-621
rs17340420	chr1:26675052	HMG2:miR-103
rs17340420	chr1:26675052	HMG2:miR-107

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1044113	chr1:26980121	ARID1A:miR-577
rs1044113	chr1:26980121	ARID1A:miR-559
rs11318	chr1:27078461	ATPBD1B:miR-559
rs3177311	chr1:27078466	ATPBD1B:miR-559
rs41291070	chr1:27506354	WDTC1:miR-24
rs2474285	chr1:27594214	GPR3:miR-573
rs34672418	chr1:27594606	GPR3:miR-135a
rs34672418	chr1:27594606	GPR3:miR-135b
rs1062819	chr1:27733771	AHDC1:miR-511
rs1062818	chr1:27733773	AHDC1:miR-511
rs34747724	chr1:27733946	AHDC1:miR-658
rs8678	chr1:28400241	DNAJC8:miR-559
rs8678	chr1:28400241	DNAJC8:miR-105
rs9107	chr1:28699174	PHACTR4:miR-143
rs11581225	chr1:28699419	PHACTR4:miR-7
rs2249138	chr1:29316310	EPB41:miR-9
rs5773354	chr1:31611156	FABP3:miR-548d
rs36111545	chr1:31611157	FABP3:miR-548d
rs1043163	chr1:31965554	BAI2:miR-122a
rs11540630	chr1:32281845	KHDRBS1:miR-138
rs1054798	chr1:32281869	KHDRBS1:miR-17-3p
rs12405056	chr1:32281989	KHDRBS1:miR-379
rs8176781	chr1:32571790	HDAC1:miR-524*
rs8176780	chr1:32572278	MARCKSL1:miR-422b
rs12126851	chr1:33094383	S100PBP:miR-182
rs194638	chr1:33174683	IBRDC3:miR-190
rs35161004	chr1:33537522	FLJ25476:miR-553
rs61801989	chr1:33752462	CSMD2:miR-561
rs61801989	chr1:33752462	CSMD2:miR-507
rs11807060	chr1:35103694	DLGAP3:miR-671
rs35572238	chr1:35103759	DLGAP3:miR-659
rs11542799	chr1:35422348	SFPQ:miR-186
rs3768339	chr1:35422589	SFPQ:miR-509
rs16822444	chr1:36158341	EIF2C1:miR-660
rs41308339	chr1:36160667	EIF2C1:miR-485-5p
rs35013025	chr1:36418896	RPRC1:miR-642
rs35013025	chr1:36418896	RPRC1:miR-769-3p
rs41267339	chr1:38038240	MANEAL:miR-340
rs28507204	chr1:38195822	SF3A3:miR-26a
rs28507204	chr1:38195822	SF3A3:miR-26b
rs34934086	chr1:38262672	UTP11L:miR-340
rs3839022	chr1:39724330	MACF1:miR-655
rs11538676	chr1:40478910	RLF:miR-495
rs11417187	chr1:42417572	FOXJ3:miR-548a
rs12565898	chr1:42417924	FOXJ3:miR-32
rs3831262	chr1:42653428	FAM80A:miR-609
rs35585609	chr1:42653429	FAM80A:miR-609
rs5773777	chr1:42653430	FAM80A:miR-609
rs41307904	chr1:42940331	YBX1:miR-95
rs35817790	chr1:42984662	LEPRE1:miR-9
rs1803655	chr1:43164501	SLC2A1:miR-656
rs55946822	chr1:43164540	SLC2A1:miR-568

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs2229684	chr1:43165239	SLC2A1:miR-626
rs45593643	chr1:43601942	ELOVL1:miR-518c*
rs17850048	chr1:43689520	KIAA0467:miR-663
rs17850049	chr1:43689713	KIAA0467:miR-143
rs2251802	chr1:43690224	KIAA0467:miR-193b
rs12561948	chr1:44168783	ST3GAL3:miR-768-5p
rs1859726	chr1:44168802	ST3GAL3:miR-655
rs1859726	chr1:44168802	ST3GAL3:miR-369-3p
rs14084	chr1:44216285	ATP6V0B:miR-564
rs8494	chr1:44216301	ATP6V0B:miR-577
rs34546933	chr1:46281802	PIK3R3:miR-136
rs35840711	chr1:46796638	MKNK1:miR-204
rs35840711	chr1:46796638	MKNK1:miR-211
rs1801800	chr1:46913509	KIAA0494:miR-671
rs1801799	chr1:46913573	KIAA0494:miR-653
rs1801799	chr1:46913573	KIAA0494:miR-142-5p
rs1801801	chr1:46913663	KIAA0494:miR-425-3p
rs10198	chr1:47615940	CMPK:miR-142-5p
rs10198	chr1:47615940	CMPK:miR-577
rs10198	chr1:47615940	CMPK:miR-559
rs5774086	chr1:50656403	DMRTA2:miR-582
rs56890493	chr1:51510129	RNF11:miR-655
rs41292517	chr1:51593176	EPS15:miR-527
rs35602175	chr1:51593973	EPS15:miR-205
rs36048901	chr1:51594553	EPS15:miR-200b
rs36048901	chr1:51594553	EPS15:miR-200c
rs36048901	chr1:51594553	EPS15:miR-429
rs9436905	chr1:51594718	EPS15:miR-361
rs58589175	chr1:52026598	OSBPL9:miR-591
rs34249507	chr1:53061562	ZYG11B:miR-186
rs56917927	chr1:53231938	SCP2:miR-640
rs57641470	chr1:53484736	LRP8:miR-517*
rs7524477	chr1:54335032	C1orf83:miR-27a
rs7524477	chr1:54335032	C1orf83:miR-27b
rs7527305	chr1:54335554	C1orf83:miR-126*
rs34841145	chr1:55305120	USP24:miR-186
rs28584740	chr1:55305181	USP24:miR-221
rs4628	chr1:56734344	PPAP2B:miR-610
rs2654	chr1:59019835	JUN:miR-650
rs11423561	chr1:61693775	NFIA:miR-605
rs11423561	chr1:61693775	NFIA:miR-548c
rs34375141	chr1:61693776	NFIA:miR-605
rs34375141	chr1:61693776	NFIA:miR-548c
rs11539585	chr1:61919607	TM2D1:miR-607
rs1052426	chr1:62401675	INADL:miR-18a
rs1052426	chr1:62401675	INADL:miR-18b
rs62620019	chr1:62689369	USP1:miR-568
rs35163621	chr1:63810891	KIAA1799:miR-448
rs17126892	chr1:64930048	CACHD1:miR-136
rs17126892	chr1:64930048	CACHD1:miR-205
rs1926303	chr1:64931312	CACHD1:miR-584
rs9128	chr1:65071559	JAK1:miR-588

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1804141	chr1:66611416	PDE4B:miR-147
rs3176927	chr1:66612245	PDE4B:miR-24
rs16354	chr1:66612692	PDE4B:miR-586
rs604737	chr1:66981676	SGIP1:miR-181b
rs604737	chr1:66981676	SGIP1:miR-181d
rs485521	chr1:66982150	SGIP1:miR-302b*
rs56920597	chr1:67016819	TCTEX1D1:miR-302b*
rs6681625	chr1:67224075	MIER1:miR-501
rs12132068	chr1:67224512	MIER1:miR-154*
rs12132068	chr1:67224512	MIER1:miR-487a
rs17497828	chr1:67224910	MIER1:miR-141
rs17497828	chr1:67224910	MIER1:miR-200a
rs17497828	chr1:67224910	MIER1:miR-429
rs17497828	chr1:67224910	MIER1:miR-514
rs58180044	chr1:67225311	MIER1:miR-1
rs58180044	chr1:67225311	MIER1:miR-206
rs58180044	chr1:67225311	MIER1:miR-580
rs35386444	chr1:67650980	SERBP1:miR-144
rs35073663	chr1:67651013	SERBP1:miR-380-5p
rs3783479	chr1:67926072	GADD45A:miR-659
rs829	chr1:67926106	GADD45A:miR-524*
rs829	chr1:67926106	GADD45A:miR-527
rs829	chr1:67926106	GADD45A:miR-520d*
rs828	chr1:67926166	GADD45A:miR-512-5p
rs2621	chr1:67926323	GADD45A:miR-655
rs11544221	chr1:67939944	GNG12:miR-612
rs1046852	chr1:68363692	GPR177:miR-522
rs11558481	chr1:70490044	SFRS11:miR-26a
rs11558481	chr1:70490044	SFRS11:miR-26b
rs35856741	chr1:74807777	C1orf173:miR-659
rs4949795	chr1:75399744	LHX8:miR-142-3p
rs60897865	chr1:78186916	FUBP1:miR-583
rs1047451	chr1:78254623	DNAJB4:miR-186
rs35425451	chr1:78774911	PTGFR:miR-424
rs41301196	chr1:84475113	PRKACB:miR-578
rs41301200	chr1:84475415	PRKACB:miR-557
rs1051529	chr1:84476538	PRKACB:miR-491
rs1051529	chr1:84476538	PRKACB:miR-553
rs13376116	chr1:84476685	PRKACB:miR-199a*
rs13376116	chr1:84476685	PRKACB:miR-139
rs2994444	chr1:84885098	SSX2IP:miR-655
rs56074135	chr1:84885209	SSX2IP:miR-568
rs3196	chr1:85556903	DDAH1:miR-154*
rs3196	chr1:85556903	DDAH1:miR-487a
rs3196	chr1:85556903	DDAH1:miR-586
rs61530529	chr1:85558327	DDAH1:miR-122a
rs59853155	chr1:85891163	C1orf181:miR-148b
rs59853155	chr1:85891163	C1orf181:miR-152
rs7805	chr1:86981541	SH3GLB1:miR-381
rs58521196	chr1:87345928	HS2ST1:miR-30a-5p
rs58521196	chr1:87345928	HS2ST1:miR-30b
rs58521196	chr1:87345928	HS2ST1:miR-30c

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs58521196	chr1:87345928	HS2ST1:miR-30d
rs58521196	chr1:87345928	HS2ST1:miR-30e-5p
rs2972003	chr1:87345930	HS2ST1:miR-30a-5p
rs2972003	chr1:87345930	HS2ST1:miR-30b
rs2972003	chr1:87345930	HS2ST1:miR-30c
rs2972003	chr1:87345930	HS2ST1:miR-30d
rs2972003	chr1:87345930	HS2ST1:miR-30e-5p
rs15436	chr1:87346408	HS2ST1:miR-19a
rs15436	chr1:87346408	HS2ST1:miR-19b
rs17129815	chr1:87347428	HS2ST1:miR-135a
rs17129815	chr1:87347428	HS2ST1:miR-135b
rs56112379	chr1:87583089	LMO4:miR-630
rs61703221	chr1:89072197	PKN2:miR-511
rs786912	chr1:89073711	PKN2:miR-372
rs786912	chr1:89073711	PKN2:miR-93
rs12068415	chr1:89220398	RBMXL1:miR-363*
rs11662	chr1:90173993	LRRC8D:miR-522
rs35351831	chr1:90266335	ZNF326:miR-302a*
rs1050619	chr1:91921599	TGFBR3:miR-23a
rs1050619	chr1:91921599	TGFBR3:miR-23b
rs59595404	chr1:92712962	GFI1:miR-495
rs12075243	chr1:92712974	GFI1:miR-361
rs6603978	chr1:92751712	EVI5:miR-493-5p
rs6603978	chr1:92751712	EVI5:miR-448
rs6689737	chr1:92751713	EVI5:miR-493-5p
rs6689737	chr1:92751713	EVI5:miR-448
rs8489	chr1:93598907	DR1:miR-384
rs41292649	chr1:93790619	FNBP1L:miR-335
rs237429	chr1:93792116	FNBP1L:miR-382
rs59784221	chr1:95135200	CNN3:miR-618
rs11540277	chr1:95135466	CNN3:miR-182
rs3789699	chr1:95135589	CNN3:miR-519a
rs3789699	chr1:95135589	CNN3:miR-519b
rs3789699	chr1:95135589	CNN3:miR-519c
rs1416666	chr1:97051893	PTBP2:miR-628
rs56160474	chr1:97316846	DPYD:miR-208
rs34734090	chr1:99128718	PAP2D:miR-26a
rs34734090	chr1:99128718	PAP2D:miR-26b
rs41302764	chr1:99130603	PAP2D:miR-1
rs41302764	chr1:99130603	PAP2D:miR-206
rs41285716	chr1:99545479	LPPR4:miR-571
rs34327534	chr1:99546976	LPPR4:miR-491
rs1064302	chr1:100260994	SLC35A3:miR-577
rs11539151	chr1:100261547	SLC35A3:miR-218
rs5876	chr1:100320582	HIAT1:miR-539
rs3783620	chr1:100977051	VCAM1:miR-126
rs3194002	chr1:100977133	VCAM1:miR-559
rs3194002	chr1:100977133	VCAM1:miR-524*
rs61780689	chr1:101478472	EDG1:miR-33
rs61780689	chr1:101478472	EDG1:miR-148b
rs61780689	chr1:101478472	EDG1:miR-152
rs1056840	chr1:101479198	EDG1:miR-106a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1056840	chr1:101479198	EDG1:miR-106b
rs1056840	chr1:101479198	EDG1:miR-17-5p
rs1056840	chr1:101479198	EDG1:miR-20a
rs1056840	chr1:101479198	EDG1:miR-20b
rs1056840	chr1:101479198	EDG1:miR-519d
rs9659030	chr1:103114980	COL11A1:miR-105
rs17127200	chr1:103115655	COL11A1:miR-374
rs3088150	chr1:103115655	COL11A1:miR-374
rs17127200	chr1:103115655	COL11A1:miR-369-3p
rs3088150	chr1:103115655	COL11A1:miR-369-3p
rs35089340	chr1:107825737	NTNG1:miR-369-3p
rs17019191	chr1:107825738	NTNG1:miR-369-3p
rs17019191	chr1:107825738	NTNG1:miR-182
rs8676	chr1:107915388	VAV3:miR-363
rs17236120	chr1:107915867	VAV3:miR-522
rs17236120	chr1:107915867	VAV3:miR-140
rs1055977	chr1:108983292	FAM102B:miR-191
rs11544312	chr1:109044243	PRPF38B:miR-32
rs11544312	chr1:109044243	PRPF38B:miR-606
rs658437	chr1:109619786	CELSR2:miR-624
rs34208045	chr1:109851486	AMIGO1:miR-635
rs7371	chr1:109936831	GNAI3:miR-548b
rs7371	chr1:109936831	GNAI3:miR-548c
rs3790721	chr1:111291901	C1orf103:miR-208
rs61406191	chr1:111461508	TMEM77:miR-632
rs1803876	chr1:112057016	RAP1A:miR-569
rs3795821	chr1:112802088	CTTNBP2NL:miR-581
rs36182732	chr1:112802471	CTTNBP2NL:miR-192
rs36182732	chr1:112802471	CTTNBP2NL:miR-215
rs36182732	chr1:112802471	CTTNBP2NL:miR-193a
rs10605173	chr1:112802475	CTTNBP2NL:miR-193a
rs56714545	chr1:112864937	WNT2B:miR-130a
rs56714545	chr1:112864937	WNT2B:miR-130b
rs56714545	chr1:112864937	WNT2B:miR-301
rs56714545	chr1:112864937	WNT2B:miR-454-3p
rs36061309	chr1:112868669	ST7L:miR-331
rs1802931	chr1:113015218	CAPZA1:miR-154
rs35252221	chr1:113015697	CAPZA1:miR-363*
rs1059479	chr1:113045415	RHOC:miR-106a
rs1059479	chr1:113045415	RHOC:miR-106b
rs1059479	chr1:113045415	RHOC:miR-17-5p
rs1059479	chr1:113045415	RHOC:miR-20a
rs1059479	chr1:113045415	RHOC:miR-20b
rs1059479	chr1:113045415	RHOC:miR-372
rs1059479	chr1:113045415	RHOC:miR-93
rs1059479	chr1:113045415	RHOC:miR-138
rs41306207	chr1:113257704	SLC16A1:miR-522
rs10108	chr1:114317853	HIPK1:miR-7
rs55955354	chr1:114318935	HIPK1:miR-576
rs34764866	chr1:114319284	HIPK1:miR-524
rs34764866	chr1:114319284	HIPK1:miR-525*
rs34764866	chr1:114319284	HIPK1:miR-124a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs11558867	chr1:115061122	CSDE1:miR-146a
rs11558867	chr1:115061122	CSDE1:miR-146b
rs8453	chr1:115061122	CSDE1:miR-146a
rs8453	chr1:115061122	CSDE1:miR-146b
rs11558867	chr1:115061122	CSDE1:miR-320
rs11558867	chr1:115061122	CSDE1:miR-548a
rs8453	chr1:115061122	CSDE1:miR-320
rs8453	chr1:115061122	CSDE1:miR-548a
rs36070559	chr1:115062104	CSDE1:miR-645
rs6851	chr1:115062166	CSDE1:miR-425-5p
rs41310108	chr1:116035823	VANGL1:miR-663
rs1802523	chr1:116044283	CASQ2:miR-559
rs1061473	chr1:116748630	ATP1A1:miR-609
rs1061473	chr1:116748630	ATP1A1:miR-122a
rs3841437	chr1:117331382	PTGFRN:miR-186
rs6589	chr1:117334414	PTGFRN:miR-659
rs9951	chr1:117867882	MAN1A2:miR-151
rs9951	chr1:117867882	MAN1A2:miR-645
rs9951	chr1:117867882	MAN1A2:miR-505
rs9951	chr1:117867882	MAN1A2:miR-634
rs57334390	chr1:117968261	FAM46C:miR-518f*
rs57334390	chr1:117968261	FAM46C:miR-526a
rs57334390	chr1:117968261	FAM46C:miR-526c
rs2066411	chr1:117968273	FAM46C:miR-519e
rs2066411	chr1:117968273	FAM46C:miR-105
rs851772	chr1:117968326	FAM46C:miR-524*
rs55759303	chr1:117972461	FAM46C:miR-655
rs1045840	chr1:119963623	ZNF697:miR-409-3p
rs1045840	chr1:119963623	ZNF697:miR-512-3p
rs57645729	chr1:119963663	ZNF697:miR-490
rs1055500	chr1:143562920	PDE4DIP:miR-656
rs12080232	chr1:143827545	SEC22B:miR-199a
rs12080232	chr1:143827545	SEC22B:miR-199b
rs41306213	chr1:144186912	ANKRD34:miR-556
rs1050057	chr1:144297760	PIAS3:miR-18a
rs1050057	chr1:144297760	PIAS3:miR-18b
rs1043806	chr1:145695923	GJA5:miR-202
rs3209395	chr1:148504556	APH1A:miR-520d*
rs3209394	chr1:148504557	APH1A:miR-520d*
rs11548267	chr1:148505323	APH1A:miR-376a*
rs11548267	chr1:148505323	APH1A:miR-657
rs14654	chr1:148592176	PRPF3:miR-154*
rs14654	chr1:148592176	PRPF3:miR-487a
rs36123358	chr1:148813720	MCL1:miR-221
rs11850	chr1:148813871	MCL1:miR-208
rs9436017	chr1:149204442	LASS2:miR-204
rs9436017	chr1:149204442	LASS2:miR-211
rs35481563	chr1:149290106	C1orf56:miR-26a
rs35481563	chr1:149290106	C1orf56:miR-26b
rs11554229	chr1:149306692	MLLT11:miR-185
rs1802719	chr1:149306711	MLLT11:miR-29a
rs1802719	chr1:149306711	MLLT11:miR-29b

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1802719	chr1:149306711	MLLT11:miR-29c
rs59841079	chr1:149642196	POGZ:miR-671
rs3088297	chr1:149642685	POGZ:miR-508
rs3088297	chr1:149642685	POGZ:miR-186
rs12566457	chr1:149642691	POGZ:miR-186
rs61021360	chr1:149937215	SNX27:miR-125a
rs61021360	chr1:149937215	SNX27:miR-125b
rs61021360	chr1:149937215	SNX27:miR-331
rs58950896	chr1:150012629	TDRKH:miR-515-5p
rs58950896	chr1:150012629	TDRKH:miR-519e*
rs58950896	chr1:150012629	TDRKH:miR-522
rs1802640	chr1:151901177	ILF2:miR-186
rs16835491	chr1:151901215	ILF2:miR-424
rs12742965	chr1:152044166	GATAD2B:miR-502
rs12758172	chr1:152044167	GATAD2B:miR-502
rs35169408	chr1:152046093	GATAD2B:miR-299-3p
rs35169408	chr1:152046093	GATAD2B:miR-491
rs9426938	chr1:152046922	GATAD2B:miR-635
rs41302143	chr1:152049076	GATAD2B:miR-34a
rs41302143	chr1:152049076	GATAD2B:miR-34c
rs41302143	chr1:152049076	GATAD2B:miR-449
rs41302143	chr1:152049076	GATAD2B:miR-449b
rs7704	chr1:152198303	SLC39A1:miR-642
rs41310879	chr1:152198304	SLC39A1:miR-642
rs41310879	chr1:152198304	SLC39A1:miR-515-5p
rs41310879	chr1:152198304	SLC39A1:miR-519e*
rs11577138	chr1:152395624	TPM3:miR-384
rs1044015	chr1:152509771	UBAP2L:miR-765
rs28702634	chr1:152509815	UBAP2L:miR-652
rs28702634	chr1:152509815	UBAP2L:miR-433
rs11422922	chr1:152509886	UBAP2L:miR-144
rs2228147	chr1:152704465	IL6R:let-7a
rs2228147	chr1:152704465	IL6R:let-7b
rs2228147	chr1:152704465	IL6R:let-7c
rs2228147	chr1:152704465	IL6R:let-7d
rs2228147	chr1:152704465	IL6R:let-7f
rs2228147	chr1:152704465	IL6R:let-7g
rs2228147	chr1:152704465	IL6R:let-7i
rs2228147	chr1:152704465	IL6R:miR-98
rs12904	chr1:153373321	EFNA1:miR-193b
rs41264229	chr1:153573064	ASH1L:miR-511
rs3738587	chr1:154118632	SYT11:miR-545
rs5023514	chr1:154184036	ARHGEF2:miR-202*
rs57051663	chr1:154245645	SSR2:miR-331
rs57051663	chr1:154245645	SSR2:miR-125a
rs57051663	chr1:154245645	SSR2:miR-125b
rs708605	chr1:154375713	LMNA:miR-581
rs12715	chr1:154476390	PMF1:miR-621
rs35769575	chr1:154700349	MEF2D:miR-510
rs41267363	chr1:154700374	MEF2D:miR-122a
rs11556953	chr1:158154993	TAGLN2:miR-659
rs36076633	chr1:158155137	TAGLN2:miR-613



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs2854245	chr1:158379963	ATP1A2:miR-519a
rs2854245	chr1:158379963	ATP1A2:miR-519b
rs2854245	chr1:158379963	ATP1A2:miR-519c
rs11552712	chr1:158449962	PEA15:miR-768-5p
rs1049198	chr1:158450031	PEA15:miR-128a
rs1049198	chr1:158450031	PEA15:miR-128b
rs16831606	chr1:158452497	WDR42A:miR-24
rs16831617	chr1:158453397	WDR42A:miR-429
rs5778164	chr1:158661910	VANGL2:miR-26a
rs5778164	chr1:158661910	VANGL2:miR-26b
rs9282850	chr1:158846669	SLAMF1:miR-539
rs3210920	chr1:159234523	F11R:miR-378
rs11953	chr1:159234562	F11R:miR-508
rs57602466	chr1:159234617	F11R:miR-140
rs34364309	chr1:159336549	KARCA1:miR-520a*
rs34364309	chr1:159336549	KARCA1:miR-525
rs34545109	chr1:159358074	DEDD:miR-186
rs36017137	chr1:159466328	TOMM40L:miR-382
rs57914150	chr1:159601165	C1orf192:miR-561
rs41378649	chr1:160604285	NOS1AP:miR-516-3p
rs3738393	chr1:160621427	FLJ13137:miR-513
rs41271975	chr1:160759429	UHMK1:miR-137
rs11808845	chr1:160759498	UHMK1:miR-101
rs11808845	chr1:160759498	UHMK1:miR-139
rs9771	chr1:163082728	PBX1:miR-765
rs61356515	chr1:165093267	TADA1L:miR-135a
rs61356515	chr1:165093267	TADA1L:miR-135b
rs6675033	chr1:165093279	TADA1L:miR-424
rs6675033	chr1:165093279	TADA1L:miR-15a
rs6675033	chr1:165093279	TADA1L:miR-15b
rs6675033	chr1:165093279	TADA1L:miR-16
rs6675033	chr1:165093279	TADA1L:miR-195
rs6675033	chr1:165093279	TADA1L:miR-497
rs1054721	chr1:166437939	TIPRL:miR-600
rs14824	chr1:167367438	ATP1B1:miR-491
rs34447553	chr1:167367881	ATP1B1:miR-186
rs1061319	chr1:167367989	ATP1B1:miR-559
rs1061321	chr1:167367995	ATP1B1:miR-577
rs1061321	chr1:167367995	ATP1B1:miR-559
rs12091	chr1:167368512	ATP1B1:miR-182
rs1138486	chr1:167368559	NME7:miR-570
rs1138486	chr1:167368559	ATP1B1:miR-375
rs12091844	chr1:167699897	SLC19A2:miR-144
rs6666030	chr1:168972242	PRRX1:miR-516-5p
rs10644708	chr1:168972309	PRRX1:miR-584
rs58473244	chr1:168972528	PRRX1:miR-548b
rs58473244	chr1:168972528	PRRX1:miR-548c
rs41310857	chr1:172022129	KLHL20:miR-361
rs767053	chr1:172170360	RC3H1:miR-154
rs12045577	chr1:172174259	RC3H1:miR-452
rs1053045	chr1:174180638	RFWD2:miR-186
rs15242	chr1:174180805	RFWD2:miR-433

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs15242	chr1:174180805	RFWD2:miR-135a
rs15242	chr1:174180805	RFWD2:miR-135b
rs55771483	chr1:174180807	RFWD2:miR-433
rs55771483	chr1:174180807	RFWD2:miR-135a
rs55771483	chr1:174180807	RFWD2:miR-135b
rs34204158	chr1:177086612	ANGPTL1:miR-33
rs11326390	chr1:177152373	RALGPS2:miR-34b
rs35017809	chr1:177152414	RALGPS2:miR-603
rs1044972	chr1:177335243	ABL2:miR-185
rs16856477	chr1:179120207	XPR1:miR-548a
rs41268464	chr1:179326516	IER5:miR-568
rs41268464	chr1:179326516	IER5:miR-429
rs861	chr1:181123273	DHX9:miR-30a-5p
rs861	chr1:181123273	DHX9:miR-30b
rs861	chr1:181123273	DHX9:miR-30c
rs861	chr1:181123273	DHX9:miR-30d
rs861	chr1:181123273	DHX9:miR-30e-5p
rs860	chr1:181123363	DHX9:miR-224
rs3738818	chr1:181488256	NMNAT2:miR-657
rs699245	chr1:181787906	SMG7:miR-518c*
rs41272542	chr1:181788123	SMG7:miR-221
rs41263644	chr1:181788544	SMG7:miR-596
rs41263644	chr1:181788544	SMG7:miR-193a
rs11549003	chr1:182308681	C1orf19:miR-577
rs11549003	chr1:182308681	C1orf19:miR-143
rs2378890	chr1:182857071	C1orf21:miR-562
rs2378890	chr1:182857071	C1orf21:miR-373*
rs2378890	chr1:182857071	C1orf21:miR-515-5p
rs2378890	chr1:182857071	C1orf21:miR-519e*
rs61703551	chr1:182927112	C1orf22:miR-499
rs34348424	chr1:183337346	RNF2:miR-429
rs35755428	chr1:183533492	IVNS1ABP:miR-589
rs56736495	chr1:184425750	HMCN1:miR-29a
rs56736495	chr1:184425750	HMCN1:miR-29b
rs56736495	chr1:184425750	HMCN1:miR-29c
rs34333849	chr1:191047947	RGS2:miR-96
rs3835598	chr1:191048014	RGS2:miR-361
rs698859	chr1:195274988	F13B:miR-191
rs4639796	chr1:195393272	ZBTB41:miR-633
rs4639796	chr1:195393272	ZBTB41:miR-101
rs11313660	chr1:195393671	ZBTB41:miR-106a
rs11313660	chr1:195393671	ZBTB41:miR-106b
rs11313660	chr1:195393671	ZBTB41:miR-17-5p
rs11313660	chr1:195393671	ZBTB41:miR-20a
rs11313660	chr1:195393671	ZBTB41:miR-20b
rs11313660	chr1:195393671	ZBTB41:miR-302a
rs11313660	chr1:195393671	ZBTB41:miR-302b
rs11313660	chr1:195393671	ZBTB41:miR-302c
rs11313660	chr1:195393671	ZBTB41:miR-302d
rs11313660	chr1:195393671	ZBTB41:miR-373
rs11313660	chr1:195393671	ZBTB41:miR-520a
rs11313660	chr1:195393671	ZBTB41:miR-520b

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs11313660	chr1:195393671	ZBTB41:miR-520c
rs11313660	chr1:195393671	ZBTB41:miR-520d
rs11313660	chr1:195393671	ZBTB41:miR-520e
rs11313660	chr1:195393671	ZBTB41:miR-526b*
rs1060061	chr1:198410065	NR5A2:miR-432
rs35364522	chr1:198413117	NR5A2:miR-186
rs56342851	chr1:198413118	NR5A2:miR-186
rs947376	chr1:199566093	PKP1:miR-656
rs1054160	chr1:199719313	CSRP1:miR-539
rs12082161	chr1:200056479	NAV1:miR-586
rs11542634	chr1:200118729	IPO9:miR-503
rs11542198	chr1:200370062	ARL8A:miR-498
rs11542198	chr1:200370062	ARL8A:miR-607
rs11589865	chr1:200821553	PPP1R12B:miR-145
rs10494837	chr1:200963958	JARID1B:miR-184
rs7539542	chr1:201176597	ADIPOR1:miR-511
rs1043268	chr1:201176889	ADIPOR1:miR-595
rs10920562	chr1:201318983	MYOG:miR-377
rs10920562	chr1:201318983	MYOG:miR-768-3p
rs1804734	chr1:201545229	BTG2:miR-600
rs35434297	chr1:201578020	FMOD:miR-545
rs970	chr1:201979619	ATP2B4:miR-493-5p
rs2365983	chr1:202089557	ZC3H11A:miR-30a-3p
rs2365983	chr1:202089557	ZC3H11A:miR-30e-3p
rs3008593	chr1:202363424	SOX13:miR-595
rs36012144	chr1:202363486	SOX13:miR-573
rs14575	chr1:202639308	PPP1R15B:miR-559
rs14575	chr1:202639308	PPP1R15B:miR-577
rs17847775	chr1:202658472	PIK3C2B:miR-148a
rs60143169	chr1:203258517	NFASC:miR-223
rs12037322	chr1:203380218	RIPK5:miR-26a
rs12037322	chr1:203380218	RIPK5:miR-26b
rs12040428	chr1:203380219	RIPK5:miR-26a
rs12040428	chr1:203380219	RIPK5:miR-26b
rs12733647	chr1:204149424	SLC26A9:miR-564
rs55894011	chr1:204972564	MAPKAPK2:miR-124a
rs41432052	chr1:205007631	IL10:miR-380-3p
rs3024522	chr1:205109186	IL20:miR-527
rs12091658	chr1:205320878	PFKFB2:miR-519a
rs12091658	chr1:205320878	PFKFB2:miR-519b
rs12091658	chr1:205320878	PFKFB2:miR-519c
rs56021517	chr1:205600334	CD55:miR-524*
rs56226104	chr1:205600335	CD55:miR-524*
rs56352752	chr1:205600336	CD55:miR-524*
rs56040717	chr1:205600337	CD55:miR-524*
rs56368043	chr1:205600338	CD55:miR-524*
rs56368043	chr1:205600338	CD55:miR-656
rs56119363	chr1:205600339	CD55:miR-524*
rs56119363	chr1:205600339	CD55:miR-656
rs56307978	chr1:205600340	CD55:miR-524*
rs56307978	chr1:205600340	CD55:miR-656
rs56115912	chr1:205600341	CD55:miR-524*

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs56115912	chr1:205600341	CD55:miR-656
rs55738962	chr1:205600342	CD55:miR-524*
rs55738962	chr1:205600342	CD55:miR-656
rs55774111	chr1:205600343	CD55:miR-656
rs55735213	chr1:205600344	CD55:miR-656
rs56336839	chr1:205600345	CD55:miR-656
rs55892369	chr1:205600346	CD55:miR-656
rs960339	chr1:208094344	C1orf107:miR-363
rs2205984	chr1:208094346	C1orf107:miR-363
rs11580973	chr1:208095808	C1orf107:miR-24
rs11586113	chr1:208482993	SERTAD4:miR-577
rs11586113	chr1:208482993	SERTAD4:miR-651
rs3855878	chr1:209555810	RCOR3:miR-610
rs3483	chr1:209988119	LPGAT1:miR-382
rs792429	chr1:210601673	PPP2R5A:miR-494
rs792429	chr1:210601673	PPP2R5A:miR-641
rs13375798	chr1:212276065	PROX1:miR-125a
rs13375798	chr1:212276065	PROX1:miR-125b
rs3830398	chr1:212597708	PTPN14:miR-559
rs3838998	chr1:213475521	KCNK2:miR-382
rs3838998	chr1:213475521	KCNK2:miR-186
rs35939502	chr1:213475522	KCNK2:miR-382
rs35939502	chr1:213475522	KCNK2:miR-186
rs11588647	chr1:213475956	KCNK2:miR-200b
rs11588647	chr1:213475956	KCNK2:miR-200c
rs11588647	chr1:213475956	KCNK2:miR-429
rs11588647	chr1:213475956	KCNK2:miR-105
rs11572841	chr1:214743466	ESRRG:miR-584
rs11572841	chr1:214743466	ESRRG:miR-140
rs1141268	chr1:214743687	ESRRG:miR-511
rs4489628	chr1:214745693	ESRRG:miR-379
rs12743866	chr1:214745715	ESRRG:miR-539
rs1141262	chr1:214746054	ESRRG:miR-7
rs36035080	chr1:218902361	MARK1:miR-144
rs34140107	chr1:219941461	DUSP10:miR-129
rs34140107	chr1:219941461	DUSP10:miR-450
rs61824285	chr1:220905859	MIA3:miR-450
rs34687623	chr1:222640811	WDR26:miR-452
rs6681254	chr1:223749325	ENAH:miR-563
rs6681254	chr1:223749325	ENAH:miR-514
rs6681254	chr1:223749325	ENAH:miR-96
rs2406290	chr1:223749528	ENAH:miR-151
rs59605484	chr1:223749802	ENAH:miR-223
rs34523945	chr1:224325836	H3F3A:miR-580
rs1144840	chr1:224886456	ITPKB:miR-183
rs14892	chr1:226353271	ARF1:miR-185
rs11313764	chr1:226431808	C1orf69:miR-583
rs12035756	chr1:226431834	C1orf69:miR-340
rs12035756	chr1:226431834	C1orf69:miR-136
rs57766523	chr1:226432351	C1orf69:miR-485-3p
rs16851324	chr1:228482451	GALNT2:miR-487b
rs7022	chr1:228484287	GALNT2:miR-634

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs10910416	chr1:232525976	SLC35F3:miR-648
rs3045215	chr1:232807540	IRF2BP2:miR-520g
rs3045215	chr1:232807540	IRF2BP2:miR-520h
rs3045215	chr1:232807540	IRF2BP2:miR-106a
rs3045215	chr1:232807540	IRF2BP2:miR-106b
rs3045215	chr1:232807540	IRF2BP2:miR-17-5p
rs3045215	chr1:232807540	IRF2BP2:miR-20a
rs3045215	chr1:232807540	IRF2BP2:miR-20b
rs3045215	chr1:232807540	IRF2BP2:miR-519d
rs58042860	chr1:232807541	IRF2BP2:miR-520g
rs58042860	chr1:232807541	IRF2BP2:miR-520h
rs58042860	chr1:232807541	IRF2BP2:miR-106a
rs58042860	chr1:232807541	IRF2BP2:miR-106b
rs58042860	chr1:232807541	IRF2BP2:miR-17-5p
rs58042860	chr1:232807541	IRF2BP2:miR-20a
rs58042860	chr1:232807541	IRF2BP2:miR-20b
rs58042860	chr1:232807541	IRF2BP2:miR-519d
rs58042860	chr1:232807541	IRF2BP2:miR-302a
rs58042860	chr1:232807541	IRF2BP2:miR-302b
rs58042860	chr1:232807541	IRF2BP2:miR-302c
rs58042860	chr1:232807541	IRF2BP2:miR-302d
rs58042860	chr1:232807541	IRF2BP2:miR-373
rs58042860	chr1:232807541	IRF2BP2:miR-519e
rs58042860	chr1:232807541	IRF2BP2:miR-520a
rs58042860	chr1:232807541	IRF2BP2:miR-520b
rs58042860	chr1:232807541	IRF2BP2:miR-520c
rs58042860	chr1:232807541	IRF2BP2:miR-520d
rs58042860	chr1:232807541	IRF2BP2:miR-520e
rs58042860	chr1:232807541	IRF2BP2:miR-526b*
rs59700554	chr1:232809440	IRF2BP2:miR-620
rs59700554	chr1:232809440	IRF2BP2:miR-202
rs6656006	chr1:232809442	IRF2BP2:miR-620
rs6656006	chr1:232809442	IRF2BP2:miR-202
rs11195	chr1:233397053	ARID4B:miR-603
rs11195	chr1:233397053	ARID4B:miR-323
rs7513402	chr1:234714134	EDARADD:miR-376a
rs7513402	chr1:234714134	EDARADD:miR-376b
rs7513402	chr1:234714134	EDARADD:miR-513
rs61736989	chr1:234714165	EDARADD:miR-661
rs3916983	chr1:234714173	EDARADD:miR-661
rs61737025	chr1:234714185	EDARADD:miR-425-5p
rs6428955	chr1:234714359	EDARADD:miR-370
rs1062985	chr1:241355669	CEP170:miR-202*
rs35197966	chr1:241733203	AKT3:miR-452*
rs2275521	chr1:241733541	AKT3:miR-765
rs61833175	chr1:241734127	AKT3:miR-302c*
rs35885954	chr1:242638773	ADSS:miR-656
rs879	chr1:243083740	HNRPU:miR-544
rs880	chr1:243083746	HNRPU:miR-136
rs61842579	chr1:244770534	TFB2M:miR-561
rs4130648	chr1:244896239	C1orf71:miR-590
rs6742365	chr2:1772816	MYT1L:miR-204

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs6742365	chr2:1772816	MYT1L:miR-211
rs6742365	chr2:1772816	MYT1L:miR-103
rs6742365	chr2:1772816	MYT1L:miR-107
rs6756664	chr2:5752148	SOX11:miR-384
rs61621262	chr2:5752281	SOX11:miR-515-5p
rs61621262	chr2:5752281	SOX11:miR-519e*
rs12105008	chr2:5755791	SOX11:miR-181a
rs12105008	chr2:5755791	SOX11:miR-181c
rs62108849	chr2:5756132	SOX11:miR-577
rs10570865	chr2:5756135	SOX11:miR-577
rs28718853	chr2:7101119	RNF144A:miR-583
rs1050563	chr2:7101428	RNF144A:miR-100
rs1050563	chr2:7101428	RNF144A:miR-99a
rs1050563	chr2:7101428	RNF144A:miR-99b
rs56114166	chr2:8741755	ID2:miR-576
rs13401658	chr2:8741821	ID2:miR-519a
rs13401658	chr2:8741821	ID2:miR-519b
rs13401658	chr2:8741821	ID2:miR-519c
rs56306470	chr2:9463693	ITGB1BP1:miR-489
rs11246	chr2:10059753	GRHL1:miR-524*
rs1042950	chr2:10484429	HPCAL1:miR-581
rs28362417	chr2:10498265	ODC1:miR-610
rs1804105	chr2:10841528	PDIA6:miR-132
rs1804105	chr2:10841528	PDIA6:miR-212
rs11545888	chr2:10842575	ATP6V1C2:miR-566
rs34445213	chr2:12800115	TRIB2:miR-409-3p
rs3835944	chr2:12800274	TRIB2:miR-651
rs12105871	chr2:15688566	DDX1:miR-200b
rs12105871	chr2:15688566	DDX1:miR-200c
rs12105871	chr2:15688566	DDX1:miR-429
rs13404748	chr2:16597634	FAM49A:miR-30a-5p
rs13404748	chr2:16597634	FAM49A:miR-30b
rs13404748	chr2:16597634	FAM49A:miR-30c
rs13404748	chr2:16597634	FAM49A:miR-30d
rs13404748	chr2:16597634	FAM49A:miR-30e-5p
rs14762	chr2:20095977	LAPTM4A:miR-587
rs11539765	chr2:20314674	PUM2:miR-548b
rs2303301	chr2:23825288	ATAD2B:miR-561
rs34816646	chr2:24139936	FKBP1B:miR-204
rs34816646	chr2:24139936	FKBP1B:miR-211
rs1802877	chr2:24844861	NCOA1:miR-604
rs1802877	chr2:24844861	NCOA1:miR-647
rs17737058	chr2:24845073	NCOA1:miR-488
rs4194	chr2:24895704	ADCY3:miR-493-3p
rs35163679	chr2:25309938	DNMT3A:miR-429
rs36090614	chr2:26003103	KIF3C:miR-184
rs6705	chr2:26211614	RAB10:miR-600
rs6705	chr2:26211614	RAB10:miR-556
rs35339463	chr2:26211654	RAB10:miR-203
rs62128674	chr2:26465969	SELL:miR-182
rs35774110	chr2:27023560	DPYSL5:miR-520g
rs35774110	chr2:27023560	DPYSL5:miR-520h

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3177274	chr2:27118051	FLJ20254:miR-511
rs9974	chr2:27568475	FNDC4:miR-31
rs11687800	chr2:28876463	PPP1CB:miR-656
rs11687800	chr2:28876463	PPP1CB:miR-429
rs11687800	chr2:28876463	PPP1CB:miR-155
rs11540534	chr2:28877080	PPP1CB:miR-181a
rs11540534	chr2:28877080	PPP1CB:miR-181c
rs11680458	chr2:29024127	WDR43:miR-141
rs11680458	chr2:29024127	WDR43:miR-200a
rs11680458	chr2:29024127	WDR43:miR-200b
rs11680458	chr2:29024127	WDR43:miR-200c
rs1131881	chr2:29024217	WDR43:miR-527
rs59633688	chr2:29140013	FLJ34931:miR-511
rs36058697	chr2:29259596	RSNL2:miR-559
rs36058697	chr2:29259596	RSNL2:miR-142-5p
rs4951983	chr2:30235405	YPEL5:miR-603
rs3087895	chr2:30235457	YPEL5:miR-30a-5p
rs3087895	chr2:30235457	YPEL5:miR-30b
rs3087895	chr2:30235457	YPEL5:miR-30c
rs3087895	chr2:30235457	YPEL5:miR-30d
rs3087895	chr2:30235457	YPEL5:miR-30e-5p
rs1060243	chr2:30235812	YPEL5:miR-542-3p
rs11348357	chr2:30336333	LBH:miR-106a
rs11348357	chr2:30336333	LBH:miR-106b
rs11348357	chr2:30336333	LBH:miR-17-5p
rs11348357	chr2:30336333	LBH:miR-20a
rs11348357	chr2:30336333	LBH:miR-20b
rs57797549	chr2:30720545	LYCAT:miR-369-3p
rs62142066	chr2:31946604	C2orf4:miR-527
rs35697513	chr2:31946624	C2orf4:miR-651
rs1043463	chr2:32696799	BIRC6:miR-559
rs1043463	chr2:32696799	BIRC6:miR-142-5p
rs1043463	chr2:32696799	BIRC6:miR-577
rs1043463	chr2:32696799	BIRC6:miR-559
rs41291169	chr2:33477177	LTBP1:miR-655
rs41291169	chr2:33477177	LTBP1:miR-369-3p
rs59712446	chr2:33641597	RASGRP3:miR-522
rs11066	chr2:33662798	FAM98A:miR-527
rs11066	chr2:33662798	FAM98A:miR-28
rs7596614	chr2:33662975	FAM98A:miR-561
rs7596614	chr2:33662975	FAM98A:miR-601
rs11552401	chr2:33663329	FAM98A:miR-31
rs11124323	chr2:33663330	FAM98A:miR-31
rs11550290	chr2:36630373	CRIM1:miR-421
rs11550290	chr2:36630373	CRIM1:miR-545
rs10707574	chr2:36630882	CRIM1:miR-548c
rs63410563	chr2:36630882	CRIM1:miR-548c
rs58368969	chr2:36630914	CRIM1:miR-498
rs58368969	chr2:36630914	CRIM1:miR-607
rs1801605	chr2:36631540	CRIM1:miR-507
rs1801605	chr2:36631540	CRIM1:miR-561
rs1801605	chr2:36631540	CRIM1:miR-186

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs13423357	chr2:36929888	STRN:miR-484
rs62132520	chr2:36930002	STRN:miR-589
rs5830462	chr2:37333504	PRKD3:miR-568
rs58356461	chr2:37333510	PRKD3:miR-568
rs58356461	chr2:37333510	PRKD3:miR-583
rs61717700	chr2:38376881	ARL6IP2:miR-577
rs3134638	chr2:38825605	SFRS7:miR-655
rs36085299	chr2:39330806	MAP4K3:miR-199a*
rs36085299	chr2:39330806	MAP4K3:miR-142-3p
rs3770679	chr2:39331106	MAP4K3:miR-653
rs2424	chr2:42139079	LOC91461:miR-524*
rs56873751	chr2:42431309	COX7A2L:miR-32
rs1997	chr2:42431310	COX7A2L:miR-32
rs3209872	chr2:43304748	ZFP36L2:miR-559
rs3209872	chr2:43304748	ZFP36L2:miR-577
rs3213850	chr2:43848505	PLEKHH2:miR-432*
rs34291782	chr2:44313545	PPM1B:miR-768-5p
rs4953322	chr2:46265737	PRKCE:miR-33b
rs1804166	chr2:46662070	RHOQ:miR-612
rs17035318	chr2:46662550	RHOQ:miR-610
rs34098574	chr2:46664267	RHOQ:miR-9
rs41332745	chr2:46843035	SOCS5:miR-302a
rs41332745	chr2:46843035	SOCS5:miR-302b
rs41332745	chr2:46843035	SOCS5:miR-302c
rs41332745	chr2:46843035	SOCS5:miR-302d
rs41332745	chr2:46843035	SOCS5:miR-373
rs41332745	chr2:46843035	SOCS5:miR-520a
rs41332745	chr2:46843035	SOCS5:miR-520b
rs41332745	chr2:46843035	SOCS5:miR-520c
rs41332745	chr2:46843035	SOCS5:miR-520d
rs41332745	chr2:46843035	SOCS5:miR-520e
rs41332745	chr2:46843035	SOCS5:miR-526b*
rs41467849	chr2:46843181	SOCS5:miR-493-5p
rs1803207	chr2:47241004	CALM2:miR-450
rs1803209	chr2:47241073	CALM2:miR-302b*
rs1803206	chr2:47241137	CALM2:miR-205
rs11551441	chr2:47241305	CALM2:miR-493-5p
rs55886808	chr2:47887850	FBXO11:miR-151
rs3839058	chr2:50001615	NRXN1:miR-559
rs3839058	chr2:50001615	NRXN1:miR-577
rs2542581	chr2:53855568	CHAC2:miR-591
rs2971879	chr2:54742037	SPTBN1:miR-368
rs2971879	chr2:54742037	SPTBN1:miR-376a
rs2971879	chr2:54742037	SPTBN1:miR-376b
rs2971877	chr2:54742640	SPTBN1:miR-627
rs10528	chr2:54742653	SPTBN1:miR-155
rs60696017	chr2:54749893	SPTBN1:miR-545
rs35520933	chr2:54750088	SPTBN1:miR-143
rs2971876	chr2:54750123	SPTBN1:miR-542-3p
rs7573286	chr2:55053268	RTN4:miR-182
rs58867028	chr2:55370215	KIAA1212:miR-522
rs17046829	chr2:55370723	KIAA1212:miR-186



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs17347807	chr2:55370791	KIAA1212:miR-519a
rs17347807	chr2:55370791	KIAA1212:miR-519b
rs17347807	chr2:55370791	KIAA1212:miR-519c
rs8080	chr2:55629228	SMEK2:miR-515-5p
rs8080	chr2:55629228	SMEK2:miR-519e*
rs2287086	chr2:60539999	BCL11A:miR-557
rs2287086	chr2:60539999	BCL11A:miR-323
rs2287086	chr2:60539999	BCL11A:miR-32
rs12623650	chr2:60540683	BCL11A:miR-626
rs35238724	chr2:60540821	BCL11A:miR-583
rs3841388	chr2:61268400	USP34:miR-656
rs3841388	chr2:61268400	USP34:miR-154*
rs3841388	chr2:61268400	USP34:miR-487a
rs3841388	chr2:61268400	USP34:miR-487b
rs1050608	chr2:61558609	XPO1:miR-142-3p
rs1050567	chr2:61559167	XPO1:miR-607
rs12613621	chr2:63137026	OTX1:miR-503
rs34904144	chr2:63971980	UGP2:miR-505
rs34801175	chr2:63973923	VPS54:miR-505
rs35313784	chr2:64539900	HSPC159:miR-628
rs35720078	chr2:64712291	SERTAD2:miR-520d*
rs1803493	chr2:64712300	SERTAD2:miR-524*
rs61758846	chr2:65167262	CEP68:miR-128a
rs61758846	chr2:65167262	CEP68:miR-128b
rs11546467	chr2:65167624	RAB1A:miR-559
rs11546467	chr2:65167624	RAB1A:miR-577
rs11548391	chr2:65391799	SPRED2:miR-559
rs11548391	chr2:65391799	SPRED2:miR-577
rs35261794	chr2:69554435	AAK1:miR-205
rs1048139	chr2:69985295	RY1:miR-200b
rs1048139	chr2:69985295	RY1:miR-200c
rs1048139	chr2:69985295	RY1:miR-429
rs13402589	chr2:70169549	PCBP1:miR-600
rs11545481	chr2:70169611	PCBP1:miR-646
rs3732260	chr2:70230959	FLJ20558:miR-19a
rs3732260	chr2:70230959	FLJ20558:miR-19b
rs61296228	chr2:70528078	TGFA:miR-23a
rs61296228	chr2:70528078	TGFA:miR-23b
rs61296228	chr2:70528078	TGFA:miR-655
rs753554	chr2:73014955	EMX1:miR-587
rs1046157	chr2:73154050	RAB11FIP5:miR-106a
rs1046157	chr2:73154050	RAB11FIP5:miR-106b
rs1046157	chr2:73154050	RAB11FIP5:miR-17-5p
rs1046157	chr2:73154050	RAB11FIP5:miR-20a
rs1046157	chr2:73154050	RAB11FIP5:miR-20b
rs1046157	chr2:73154050	RAB11FIP5:miR-302a
rs1046157	chr2:73154050	RAB11FIP5:miR-302b
rs1046157	chr2:73154050	RAB11FIP5:miR-302c
rs1046157	chr2:73154050	RAB11FIP5:miR-302d
rs1046157	chr2:73154050	RAB11FIP5:miR-373
rs1046157	chr2:73154050	RAB11FIP5:miR-520a
rs1046157	chr2:73154050	RAB11FIP5:miR-520b

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1046157	chr2:73154050	RAB11FIP5:miR-520c
rs1046157	chr2:73154050	RAB11FIP5:miR-520d
rs1046157	chr2:73154050	RAB11FIP5:miR-520e
rs1046157	chr2:73154050	RAB11FIP5:miR-526b*
rs59113407	chr2:73338218	FBXO41:miR-125a
rs59113407	chr2:73338218	FBXO41:miR-125b
rs60199157	chr2:74185048	MGC22014:miR-548a
rs60199157	chr2:74185048	MGC22014:miR-9*
rs3177776	chr2:74441800	DCTN1:miR-382
rs2215872	chr2:75572994	FLJ13391:miR-9
rs11555661	chr2:80728802	CTNNA2:miR-642
rs11541447	chr2:85398799	TGOLN2:miR-559
rs11541447	chr2:85398799	TGOLN2:miR-577
rs744716	chr2:85688725	LOC388969:miR-612
rs60499102	chr2:85689360	LOC388969:miR-186
rs5832651	chr2:85689363	LOC388969:miR-186
rs734042	chr2:85868607	ATOH8:miR-654
rs3731812	chr2:86586087	VPS24:miR-559
rs11555305	chr2:88637521	EIF2AK3:miR-559
rs11555305	chr2:88637521	EIF2AK3:miR-577
rs57072789	chr2:96172725	DUSP2:miR-513
rs7585552	chr2:96840971	CNNM4:miR-328
rs1054042	chr2:98980828	TSGA10:miR-191
rs28382980	chr2:99383784	REV1L:miR-199a*
rs3739008	chr2:100979000	NPAS2:miR-302a
rs3739008	chr2:100979000	NPAS2:miR-302b
rs3739008	chr2:100979000	NPAS2:miR-302c
rs3739008	chr2:100979000	NPAS2:miR-302d
rs3739008	chr2:100979000	NPAS2:miR-373
rs3739008	chr2:100979000	NPAS2:miR-519e
rs3739008	chr2:100979000	NPAS2:miR-520a
rs3739008	chr2:100979000	NPAS2:miR-520b
rs3739008	chr2:100979000	NPAS2:miR-520c
rs3739008	chr2:100979000	NPAS2:miR-520d
rs3739008	chr2:100979000	NPAS2:miR-520e
rs3739008	chr2:100979000	NPAS2:miR-526b*
rs3739008	chr2:100979000	NPAS2:miR-106a
rs3739008	chr2:100979000	NPAS2:miR-106b
rs3739008	chr2:100979000	NPAS2:miR-17-5p
rs3739008	chr2:100979000	NPAS2:miR-20a
rs3739008	chr2:100979000	NPAS2:miR-20b
rs3739008	chr2:100979000	NPAS2:miR-519d
rs1057591	chr2:100990177	TBC1D8:miR-584
rs11550128	chr2:100990177	TBC1D8:miR-584
rs12622613	chr2:101875518	MAP4K4:miR-522
rs61317215	chr2:102799712	FLJ30294:miR-106a
rs61317215	chr2:102799712	FLJ30294:miR-106b
rs61317215	chr2:102799712	FLJ30294:miR-17-5p
rs61317215	chr2:102799712	FLJ30294:miR-20a
rs61317215	chr2:102799712	FLJ30294:miR-20b
rs61317215	chr2:102799712	FLJ30294:miR-520g
rs61317215	chr2:102799712	FLJ30294:miR-520h

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs6752950	chr2:102799724	FLJ30294:miR-136
rs12991992	chr2:105328286	MGC5509:miR-144
rs15139	chr2:105877007	NCK2:miR-130a
rs15139	chr2:105877007	NCK2:miR-130b
rs15139	chr2:105877007	NCK2:miR-301
rs15139	chr2:105877007	NCK2:miR-454-3p
rs11553853	chr2:105877068	NCK2:miR-340
rs11553853	chr2:105877068	NCK2:miR-122a
rs1801602	chr2:106076797	UXS1:miR-145
rs10164715	chr2:108767616	RANBP2:miR-568
rs10164715	chr2:108767616	RANBP2:miR-643
rs6594049	chr2:109732314	C2orf26:miR-196a
rs6594049	chr2:109732314	C2orf26:miR-196b
rs34871350	chr2:113137493	SLC20A1:miR-210
rs11552051	chr2:113137793	SLC20A1:miR-561
rs1479	chr2:113691575	PAX8:miR-579
rs1479	chr2:113691575	PAX8:miR-144
rs1049137	chr2:113691581	PAX8:miR-144
rs55877945	chr2:114432133	ACTR3:miR-383
rs10171969	chr2:116316517	DPP10:miR-326
rs6758051	chr2:119630571	C1QL2:miR-145
rs2923	chr2:128180088	WDR33:miR-187
rs1550175	chr2:128338371	MGC4268:miR-136
rs6704678	chr2:131835157	LOC150786:miR-139
rs6704678	chr2:131835157	LOC150786:miR-27a
rs6704678	chr2:131835157	LOC150786:miR-27b
rs6704678	chr2:131835157	LOC150786:miR-128a
rs6704678	chr2:131835157	LOC150786:miR-128b
rs11896922	chr2:135430018	CCNT2:miR-19a
rs11896922	chr2:135430018	CCNT2:miR-19b
rs17848060	chr2:136588479	CXCR4:miR-548d
rs5012365	chr2:138151133	THSD7B:miR-145
rs35475588	chr2:138151592	THSD7B:miR-568
rs1053679	chr2:139043384	LOC339745:miR-124a
rs61206995	chr2:139046987	LOC339745:miR-144
rs35521195	chr2:140705515	LRP1B:miR-142-5p
rs13035458	chr2:140706821	LRP1B:miR-183
rs62169203	chr2:144862630	ZFHX1B:miR-32
rs62169203	chr2:144862630	ZFHX1B:miR-363
rs61461890	chr2:144863024	ZFHX1B:miR-374
rs59216363	chr2:148404634	ACVR2A:miR-630
rs16828708	chr2:148987180	MBD5:miR-9
rs34263068	chr2:149261323	EPC2:miR-614
rs11291336	chr2:152403264	CACNB4:miR-96
rs1437678	chr2:153220032	PRPF40A:miR-573
rs12803	chr2:156890171	NR4A2:miR-656
rs6750643	chr2:157148405	GPD2:miR-143
rs1053406	chr2:157150734	GPD2:miR-452*
rs34680206	chr2:157150964	GPD2:miR-199a*
rs34680206	chr2:157150964	GPD2:miR-302b*
rs2074954	chr2:158699771	UPP2:miR-376a
rs2074954	chr2:158699771	UPP2:miR-376b

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs10016	chr2:159380688	LOC92196:miR-558
rs5835767	chr2:160368385	LY75:miR-559
rs5835767	chr2:160368385	LY75:miR-142-5p
rs34160335	chr2:160368386	LY75:miR-559
rs34160335	chr2:160368386	LY75:miR-142-5p
rs3035626	chr2:160368387	LY75:miR-559
rs3035626	chr2:160368387	LY75:miR-142-5p
rs13431973	chr2:161800805	TANK:miR-1
rs13431973	chr2:161800805	TANK:miR-206
rs1065062	chr2:161989477	TBR1:miR-454-5p
rs11552332	chr2:162707674	GCG:miR-586
rs11552335	chr2:162707990	GCG:miR-561
rs35762655	chr2:162936228	KCNH7:miR-147
rs1051160	chr2:165057705	GRB14:miR-496
rs35211333	chr2:165654287	SCN3A:miR-495
rs35211333	chr2:165654287	SCN3A:miR-410
rs5024424	chr2:165956317	SCN2A2:miR-101
rs7425806	chr2:168519203	STK39:miR-630
rs7355470	chr2:169334610	LASS6:miR-524*
rs7355470	chr2:169334610	LASS6:miR-520d*
rs2232327	chr2:169472786	G6PC2:miR-491
rs11554658	chr2:169472800	G6PC2:miR-302c*
rs62171309	chr2:170071262	BBS5:miR-548a
rs1051387	chr2:170376601	SSB:miR-422a
rs35294426	chr2:170647134	ZNF650:miR-186
rs34365430	chr2:171425541	GAD1:miR-302a
rs34365430	chr2:171425541	GAD1:miR-302b
rs34365430	chr2:171425541	GAD1:miR-302c
rs34365430	chr2:171425541	GAD1:miR-302d
rs34365430	chr2:171425541	GAD1:miR-373
rs34365430	chr2:171425541	GAD1:miR-520a
rs34365430	chr2:171425541	GAD1:miR-520b
rs34365430	chr2:171425541	GAD1:miR-520c
rs34365430	chr2:171425541	GAD1:miR-520d
rs34365430	chr2:171425541	GAD1:miR-520e
rs34365430	chr2:171425541	GAD1:miR-526b*
rs34365430	chr2:171425541	GAD1:miR-106a
rs34365430	chr2:171425541	GAD1:miR-106b
rs34365430	chr2:171425541	GAD1:miR-17-5p
rs34365430	chr2:171425541	GAD1:miR-20a
rs34365430	chr2:171425541	GAD1:miR-20b
rs61436544	chr2:171557846	TLK1:miR-590
rs1803497	chr2:171558181	TLK1:miR-802
rs1803497	chr2:171558181	TLK1:miR-194
rs10205459	chr2:171889017	METTL8:miR-148b
rs10205459	chr2:171889017	METTL8:miR-152
rs3770417	chr2:172121835	CYBRD1:miR-23a
rs3770417	chr2:172121835	CYBRD1:miR-23b
rs1047109	chr2:172122799	CYBRD1:miR-651
rs35952194	chr2:172312781	DYNC112:miR-502
rs10930504	chr2:172672884	DLX2:miR-802
rs10930504	chr2:172672884	DLX2:miR-577

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs35272219	chr2:173625469	RAPGEF4:miR-613
rs35272219	chr2:173625469	RAPGEF4:miR-203
rs16861249	chr2:173625541	RAPGEF4:miR-633
rs59140602	chr2:173799413	ZAK:miR-424
rs16861385	chr2:173800069	ZAK:miR-559
rs13390303	chr2:174648015	PTD004:miR-516-5p
rs13383797	chr2:175005289	GPR155:miR-579
rs3087907	chr2:175133025	WIPF1:miR-409-3p
rs1062650	chr2:175751147	ATP5G3:miR-135a
rs1062650	chr2:175751147	ATP5G3:miR-135b
rs1062650	chr2:175751147	ATP5G3:miR-620
rs1062649	chr2:175751165	ATP5G3:miR-202*
rs1062648	chr2:175751177	ATP5G3:miR-200b
rs1062648	chr2:175751177	ATP5G3:miR-200c
rs1062646	chr2:175751201	ATP5G3:miR-27a
rs1062646	chr2:175751201	ATP5G3:miR-27b
rs1062646	chr2:175751201	ATP5G3:miR-128a
rs1062646	chr2:175751201	ATP5G3:miR-128b
rs6725515	chr2:176763339	HOXD1:miR-641
rs6725515	chr2:176763339	HOXD1:miR-124a
rs35094300	chr2:176910788	MTX2:miR-144
rs8470	chr2:177794073	HNRPA3:miR-147
rs11543307	chr2:177803399	NFE2L2:miR-519a
rs11543307	chr2:177803399	NFE2L2:miR-519b
rs11543307	chr2:177803399	NFE2L2:miR-519c
rs1057092	chr2:177803408	NFE2L2:miR-153
rs28434417	chr2:178111321	AGPS:miR-589
rs59805954	chr2:178187895	TTC30A:miR-18a
rs59805954	chr2:178187895	TTC30A:miR-18b
rs59805954	chr2:178187895	TTC30A:miR-519a
rs59805954	chr2:178187895	TTC30A:miR-519b
rs59805954	chr2:178187895	TTC30A:miR-519c
rs930192	chr2:178702434	DRB1:miR-513
rs2304340	chr2:178968628	OSBPL6:miR-640
rs2304340	chr2:178968628	OSBPL6:miR-380-5p
rs13406973	chr2:178969089	OSBPL6:miR-526b
rs3997878	chr2:179004872	PRKRA:miR-144
rs34552415	chr2:179681864	SESTD1:miR-539
rs35601211	chr2:180015486	ZNF533:miR-579
rs1372123	chr2:182250445	NEUROD1:miR-140
rs4666601	chr2:183498317	NCKAP1:miR-429
rs4666601	chr2:183498317	NCKAP1:miR-656
rs16827948	chr2:187081968	ZC3H15:miR-363*
rs34417253	chr2:189584946	COL3A1:miR-653
rs35208035	chr2:189584959	COL3A1:miR-509
rs1140642	chr2:189605556	COL5A2:miR-511
rs1140641	chr2:189605558	COL5A2:miR-511
rs11539983	chr2:190133719	SLC40A1:miR-519a
rs11539983	chr2:190133719	SLC40A1:miR-519b
rs11539983	chr2:190133719	SLC40A1:miR-519c
rs1055091	chr2:190343388	ORMDL1:miR-154*
rs1055091	chr2:190343388	ORMDL1:miR-487a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1055091	chr2:190343388	ORMDL1:miR-487b
rs6942	chr2:190344656	ORMDL1:miR-126*
rs1053180	chr2:191263688	NAB1:miR-559
rs41481847	chr2:191543520	STAT1:miR-539
rs13391047	chr2:196308394	SLC39A10:miR-515-5p
rs13391047	chr2:196308394	SLC39A10:miR-519e*
rs56316129	chr2:196308707	SLC39A10:miR-524*
rs56316129	chr2:196308707	SLC39A10:miR-381
rs56316129	chr2:196308707	SLC39A10:miR-369-3p
rs55865691	chr2:196309987	SLC39A10:miR-567
rs34655865	chr2:196309999	SLC39A10:miR-320
rs34655865	chr2:196309999	SLC39A10:miR-548a
rs34250178	chr2:196310334	SLC39A10:miR-509
rs3049428	chr2:196310458	SLC39A10:miR-224
rs35013923	chr2:196310459	SLC39A10:miR-224
rs10552975	chr2:196310573	SLC39A10:miR-103
rs10552975	chr2:196310573	SLC39A10:miR-107
rs10552975	chr2:196310573	SLC39A10:miR-570
rs57151481	chr2:197567952	ANKRD44:miR-630
rs1062887	chr2:197965185	SF3B1:miR-17-3p
rs11070	chr2:198048021	COQ10B:miR-624
rs11551340	chr2:198059582	HSPD1:miR-524*
rs11551340	chr2:198059582	HSPD1:miR-453
rs3860440	chr2:198059745	HSPD1:miR-148a
rs3860441	chr2:198059755	HSPD1:miR-135a
rs3860441	chr2:198059755	HSPD1:miR-135b
rs12392	chr2:198059774	HSPD1:miR-425-3p
rs12392	chr2:198059774	HSPD1:miR-1
rs12392	chr2:198059774	HSPD1:miR-206
rs3877628	chr2:198059891	HSPD1:miR-140
rs34094655	chr2:198124835	MOBKL3:miR-199a
rs34094655	chr2:198124835	MOBKL3:miR-199b
rs6435006	chr2:199844828	SATB2:miR-636
rs12993660	chr2:199844904	SATB2:miR-640
rs35305246	chr2:201062032	KCTD18:miR-519d
rs55884229	chr2:201396295	BZW1:miR-659
rs56192577	chr2:201396569	BZW1:miR-373*
rs7224	chr2:201426155	CLK1:miR-559
rs7224	chr2:201426155	CLK1:miR-30a-5p
rs7224	chr2:201426155	CLK1:miR-30b
rs7224	chr2:201426155	CLK1:miR-30c
rs7224	chr2:201426155	CLK1:miR-30d
rs7224	chr2:201426155	CLK1:miR-30e-5p
rs7224	chr2:201426155	CLK1:miR-302a*
rs3731717	chr2:201553538	FAM126B:miR-18a
rs3731717	chr2:201553538	FAM126B:miR-18b
rs3731717	chr2:201553538	FAM126B:miR-519a
rs3731717	chr2:201553538	FAM126B:miR-519b
rs3731717	chr2:201553538	FAM126B:miR-519c
rs3731717	chr2:201553538	FAM126B:miR-33
rs7572177	chr2:203133713	BMPR2:miR-768-5p
rs7572177	chr2:203133713	BMPR2:miR-532

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs6435156	chr2:203133720	BMP2:miR-532
rs10870	chr2:203347110	ICA1L:miR-579
rs1058733	chr2:204005034	ABI2:miR-608
rs2264901	chr2:204007047	RAPH1:miR-135a
rs2264901	chr2:204007047	RAPH1:miR-135b
rs10650425	chr2:204007048	RAPH1:miR-135a
rs10650425	chr2:204007048	RAPH1:miR-135b
rs5837873	chr2:204310457	CD28:miR-30a-3p
rs5837873	chr2:204310457	CD28:miR-30e-3p
rs17387557	chr2:206369947	NRP2:miR-141
rs17387557	chr2:206369947	NRP2:miR-200a
rs17387557	chr2:206369947	NRP2:miR-429
rs62195360	chr2:206575695	FLJ20309:miR-181a
rs62195360	chr2:206575695	FLJ20309:miR-181c
rs1062344	chr2:206576967	FLJ20309:miR-548b
rs1062344	chr2:206576967	FLJ20309:miR-548c
rs1062344	chr2:206576967	FLJ20309:miR-631
rs56267720	chr2:208170290	CREB1:miR-526b
rs35564745	chr2:208336085	FZD5:miR-579
rs35564745	chr2:208336085	FZD5:miR-659
rs35564745	chr2:208336085	FZD5:miR-24
rs15344	chr2:208809341	IDH1:miR-25
rs15344	chr2:208809341	IDH1:miR-367
rs15344	chr2:208809341	IDH1:miR-92
rs15344	chr2:208809341	IDH1:miR-92b
rs16843614	chr2:210303569	MAP2:miR-199a
rs16843614	chr2:210303569	MAP2:miR-199b
rs58781149	chr2:210304053	MAP2:miR-576
rs1595066	chr2:211949970	ERBB4:miR-520g
rs1595066	chr2:211949970	ERBB4:miR-520h
rs1595066	chr2:211949970	ERBB4:miR-519d
rs1595066	chr2:211949970	ERBB4:miR-519e
rs1595066	chr2:211949970	ERBB4:miR-515-3p
rs10932374	chr2:211952648	ERBB4:miR-140
rs16846004	chr2:211955561	ERBB4:miR-145
rs16846006	chr2:211955573	ERBB4:miR-205
rs59859328	chr2:211955631	ERBB4:miR-511
rs60129893	chr2:213573160	IKZF2:miR-221
rs62903760	chr2:213573161	IKZF2:miR-221
rs11475792	chr2:213573660	IKZF2:miR-186
rs35088894	chr2:213579560	IKZF2:miR-429
rs16825063	chr2:213580095	IKZF2:miR-559
rs1063617	chr2:216778393	XRCC5:miR-802
rs11545386	chr2:217245364	IGFBP5:miR-154
rs55977831	chr2:217249624	IGFBP5:miR-143
rs3204750	chr2:218919561	PNKD:let-7a
rs3204750	chr2:218919561	PNKD:let-7b
rs3204750	chr2:218919561	PNKD:let-7c
rs3204750	chr2:218919561	PNKD:let-7d
rs3204750	chr2:218919561	PNKD:let-7f
rs3204750	chr2:218919561	PNKD:let-7g
rs3204750	chr2:218919561	PNKD:let-7i

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3204750	chr2:218919561	PNKD:miR-98
rs14998	chr2:219023338	USP37:miR-577
rs1139918	chr2:219756015	C2orf17:miR-539
rs3755048	chr2:219793146	ATG9A:miR-637
rs3755048	chr2:219793146	ATG9A:miR-223
rs35394266	chr2:220123075	MGC99813:miR-602
rs3731855	chr2:221993124	EPHA4:miR-499
rs13385757	chr2:221993236	EPHA4:miR-138
rs55877777	chr2:223515174	ACSL3:miR-494
rs55877777	chr2:223515174	ACSL3:miR-641
rs58567926	chr2:223516215	ACSL3:miR-381
rs58567926	chr2:223516215	ACSL3:miR-369-3p
rs58567926	chr2:223516215	ACSL3:miR-374
rs34008338	chr2:223628310	KCNE4:miR-204
rs34008338	chr2:223628310	KCNE4:miR-211
rs28362499	chr2:225045961	CUL3:miR-577
rs1045654	chr2:225338477	DOCK10:miR-631
rs34286846	chr2:227308444	IRS1:miR-431
rs15625	chr2:227309125	IRS1:miR-182*
rs13397672	chr2:231088771	SP100:miR-626
rs35666795	chr2:231088979	SP100:miR-450
rs35666795	chr2:231088979	SP100:miR-129
rs6716468	chr2:231391865	CAB39:miR-671
rs35194787	chr2:232286054	PTMA:miR-106a
rs35194787	chr2:232286054	PTMA:miR-106b
rs35194787	chr2:232286054	PTMA:miR-17-5p
rs35194787	chr2:232286054	PTMA:miR-20a
rs35194787	chr2:232286054	PTMA:miR-20b
rs60365791	chr2:232381635	COPS7B:miR-568
rs2026	chr2:234045405	DGKD:miR-369-3p
rs2026	chr2:234045405	DGKD:miR-493-5p
rs4589703	chr2:235627545	SH3BP4:miR-132
rs4589703	chr2:235627545	SH3BP4:miR-212
rs11547123	chr2:235629015	SH3BP4:miR-561
rs11547123	chr2:235629015	SH3BP4:miR-577
rs11547123	chr2:235629015	SH3BP4:miR-488
rs8691	chr2:235629016	SH3BP4:miR-561
rs8691	chr2:235629016	SH3BP4:miR-577
rs8691	chr2:235629016	SH3BP4:miR-488
rs2230360	chr2:241817653	HDLBP:miR-214
rs13080869	chr3:423854	CHL1:miR-548c
rs3856876	chr3:425391	CHL1:miR-19a
rs3856876	chr3:425391	CHL1:miR-19b
rs3856876	chr3:425391	CHL1:miR-568
rs3956165	chr3:425534	CHL1:miR-515-3p
rs11554679	chr3:425835	CHL1:miR-618
rs163352	chr3:3073041	CNTN4:miR-384
rs7638691	chr3:3073596	CNTN4:miR-635
rs10888	chr3:3074362	CNTN4:miR-135a
rs10888	chr3:3074362	CNTN4:miR-135b
rs34717483	chr3:3863718	LRRN1:miR-802
rs34173470	chr3:3864070	LRRN1:miR-583



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs41305987	chr3:4863552	ITPR1:miR-382
rs35018130	chr3:4863676	ITPR1:miR-204
rs35018130	chr3:4863676	ITPR1:miR-211
rs36064013	chr3:4864079	ITPR1:miR-129
rs1058377	chr3:5001670	BHLHB2:miR-147
rs34105324	chr3:5196127	ARL8B:miR-612
rs35231075	chr3:5234325	EDEM1:miR-653
rs3840229	chr3:7757488	GRM7:miR-527
rs56173829	chr3:7757494	GRM7:miR-527
rs56173829	chr3:7757494	GRM7:miR-18a
rs56173829	chr3:7757494	GRM7:miR-18b
rs56173829	chr3:7757494	GRM7:miR-520g
rs56173829	chr3:7757494	GRM7:miR-520h
rs34145757	chr3:7758042	GRM7:miR-384
rs17736455	chr3:8997346	SRGAP3:miR-542-3p
rs13085756	chr3:9494746	SETD5:miR-136
rs13085756	chr3:9494746	SETD5:miR-30a-5p
rs13085756	chr3:9494746	SETD5:miR-30b
rs13085756	chr3:9494746	SETD5:miR-30c
rs13085756	chr3:9494746	SETD5:miR-30d
rs13085756	chr3:9494746	SETD5:miR-30e-5p
rs13085758	chr3:9494749	SETD5:miR-30a-5p
rs13085758	chr3:9494749	SETD5:miR-30b
rs13085758	chr3:9494749	SETD5:miR-30c
rs13085758	chr3:9494749	SETD5:miR-30d
rs13085758	chr3:9494749	SETD5:miR-30e-5p
rs1801128	chr3:9773755	OGG1:miR-96
rs3219014	chr3:9773760	OGG1:miR-96
rs35674	chr3:10343577	ATP2B2:miR-326
rs56340609	chr3:10344842	ATP2B2:miR-585
rs1062616	chr3:11053758	SLC6A1:miR-668
rs1062616	chr3:11053758	SLC6A1:miR-422b
rs1803491	chr3:11574242	VGLL4:miR-766
rs11553736	chr3:11806953	C3orf31:miR-410
rs9267	chr3:11806953	C3orf31:miR-410
rs1043517	chr3:12200452	SYN2:miR-199a*
rs930541	chr3:12200597	SYN2:miR-28
rs35963048	chr3:12202130	SYN2:miR-629
rs59526796	chr3:12207895	SYN2:miR-409-3p
rs3730299	chr3:12600895	RAF1:miR-493-3p
rs3202499	chr3:13654776	FBLN2:miR-27a
rs3202499	chr3:13654776	FBLN2:miR-27b
rs2731310	chr3:14159096	TMEM43:miR-132
rs2731310	chr3:14159096	TMEM43:miR-212
rs2731309	chr3:14159097	TMEM43:miR-132
rs2731309	chr3:14159097	TMEM43:miR-212
rs35363110	chr3:14501617	SLC6A6:miR-548c
rs35143785	chr3:15065290	NR2C2:miR-648
rs35143785	chr3:15065290	NR2C2:miR-595
rs3732719	chr3:15683807	ANKRD28:miR-373*
rs3732719	chr3:15683807	ANKRD28:miR-561
rs13325168	chr3:15685674	ANKRD28:miR-519e

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs13325168	chr3:15685674	ANKRD28:miR-515-3p
rs3736124	chr3:20000427	RAB5A:miR-627
rs41276509	chr3:20169259	PCAF:miR-561
rs4858770	chr3:20169427	PCAF:miR-559
rs4539893	chr3:23996088	NR1D2:miR-520g
rs4539893	chr3:23996088	NR1D2:miR-520h
rs4539893	chr3:23996088	NR1D2:miR-577
rs4505634	chr3:23996104	NR1D2:miR-577
rs4505634	chr3:23996104	NR1D2:miR-26a
rs4505634	chr3:23996104	NR1D2:miR-26b
rs15505	chr3:24135670	THRB:miR-141
rs15505	chr3:24135670	THRB:miR-200a
rs28509419	chr3:25613194	RARB:miR-503
rs10638799	chr3:25614270	RARB:miR-186
rs34384883	chr3:25614271	RARB:miR-186
rs11305471	chr3:30021347	RBMS3:miR-320
rs10696791	chr3:30021426	RBMS3:miR-129
rs11322142	chr3:30021431	RBMS3:miR-129
rs17026326	chr3:30708360	TGFBR2:miR-19a
rs17026326	chr3:30708360	TGFBR2:miR-19b
rs35934901	chr3:30708406	TGFBR2:miR-494
rs35934901	chr3:30708406	TGFBR2:miR-641
rs35934901	chr3:30708406	TGFBR2:miR-568
rs62252145	chr3:32498880	CMTM6:miR-583
rs11260	chr3:33405097	UBP1:miR-583
rs11260	chr3:33405097	UBP1:miR-613
rs3209345	chr3:33514259	CLASP2:miR-375
rs17035860	chr3:37007257	EPM2AIP1:miR-577
rs34667536	chr3:37997590	CTDSPL:miR-559
rs1128772	chr3:38499847	ACVR2B:miR-612
rs10421	chr3:38499849	ACVR2B:miR-612
rs1058945	chr3:38507515	ACVR2B:miR-134
rs35863066	chr3:38507586	ACVR2B:miR-520g
rs35863066	chr3:38507586	ACVR2B:miR-520h
rs35863066	chr3:38507586	ACVR2B:miR-373*
rs45512996	chr3:38565195	SCN5A:let-7e
rs45589543	chr3:38565380	SCN5A:miR-448
rs13081294	chr3:40276277	MYRIP:miR-589
rs13081294	chr3:40276277	MYRIP:miR-421
rs11374095	chr3:40328802	EIF1B:miR-186
rs10731	chr3:40478751	RPL14:miR-548b
rs15369	chr3:40478755	RPL14:miR-548b
rs34167918	chr3:40550982	ZNF621:miR-545
rs11564479	chr3:41256003	CTNNB1:miR-199a
rs11564479	chr3:41256003	CTNNB1:miR-199b
rs4135388	chr3:41256143	CTNNB1:miR-185
rs34854135	chr3:41256163	CTNNB1:miR-369-3p
rs4135389	chr3:41256209	CTNNB1:miR-483
rs34653633	chr3:41256416	CTNNB1:miR-561
rs34653633	chr3:41256416	CTNNB1:miR-186
rs4135387	chr3:41256417	CTNNB1:miR-561
rs4135387	chr3:41256417	CTNNB1:miR-186

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs34534133	chr3:41256482	CTNNB1:miR-558
rs11708257	chr3:47033061	SETD2:miR-651
rs11558994	chr3:47033062	SETD2:miR-651
rs3731562	chr3:48174881	CDC25A:let-7a
rs3731562	chr3:48174881	CDC25A:let-7b
rs3731562	chr3:48174881	CDC25A:let-7c
rs3731562	chr3:48174881	CDC25A:let-7d
rs3731562	chr3:48174881	CDC25A:let-7f
rs3731562	chr3:48174881	CDC25A:let-7g
rs3731562	chr3:48174881	CDC25A:let-7i
rs3731562	chr3:48174881	CDC25A:miR-98
rs3731562	chr3:48174881	CDC25A:miR-196a
rs3731562	chr3:48174881	CDC25A:miR-196b
rs11552877	chr3:48460435	CCDC72:miR-561
rs11552877	chr3:48460435	CCDC72:miR-524*
rs1803298	chr3:48576627	COL7A1:miR-139
rs1803298	chr3:48576627	COL7A1:miR-27a
rs1803298	chr3:48576627	COL7A1:miR-27b
rs1803298	chr3:48576627	COL7A1:miR-128a
rs1803298	chr3:48576627	COL7A1:miR-128b
rs3172494	chr3:48706491	IHPK2:miR-423
rs11552765	chr3:49371637	RHOA:miR-561
rs8179166	chr3:49371712	RHOA:miR-490
rs8857	chr3:49372043	RHOA:miR-217
rs8857	chr3:49372043	RHOA:miR-222
rs1804289	chr3:49372105	RHOA:miR-128a
rs1804289	chr3:49372105	RHOA:miR-128b
rs14566	chr3:49372318	RHOA:miR-196a
rs14566	chr3:49372318	RHOA:miR-196b
rs12583	chr3:49546466	DAG1:miR-188
rs35841879	chr3:49548014	DAG1:miR-190
rs1060962	chr3:49683506	BSN:miR-448
rs1060962	chr3:49683506	BSN:miR-493-5p
rs1060962	chr3:49683506	BSN:miR-148a
rs1060962	chr3:49683506	BSN:miR-148b
rs1060962	chr3:49683506	BSN:miR-152
rs1060970	chr3:49683773	BSN:miR-765
rs11549672	chr3:50338192	TUSC2:miR-372
rs11549672	chr3:50338192	TUSC2:miR-93
rs11549672	chr3:50338192	TUSC2:miR-512-3p
rs36012270	chr3:50338202	TUSC2:miR-325
rs59591443	chr3:51395449	DOCK3:miR-577
rs11706794	chr3:51396292	DOCK3:miR-19a
rs11706794	chr3:51396292	DOCK3:miR-19b
rs11706794	chr3:51396292	DOCK3:miR-568
rs3762712	chr3:51396407	DOCK3:miR-522
rs11540366	chr3:51406807	RBM15B:miR-577
rs11540366	chr3:51406807	RBM15B:miR-559
rs2292159	chr3:51966548	GPR62:miR-30a-3p
rs2292159	chr3:51966548	GPR62:miR-30e-3p
rs1045671	chr3:51966579	PCBP4:miR-146a
rs1045671	chr3:51966579	PCBP4:miR-146b

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs11924827	chr3:51966655	PCBP4:miR-575
rs61741642	chr3:52258813	PPM1M:miR-598
rs1767	chr3:52265514	TMEM113:miR-518b
rs1767	chr3:52265514	TMEM113:miR-518c
rs1767	chr3:52265514	TMEM113:miR-518d
rs57823393	chr3:52266118	TMEM113:miR-555
rs34922530	chr3:52266414	TMEM113:miR-181b
rs34922530	chr3:52266414	TMEM113:miR-181d
rs10575729	chr3:53295104	DCP1A:miR-421
rs10575729	chr3:53295104	DCP1A:miR-545
rs35336193	chr3:53296462	DCP1A:miR-27a
rs35336193	chr3:53296462	DCP1A:miR-27b
rs35336193	chr3:53296462	DCP1A:miR-128a
rs35336193	chr3:53296462	DCP1A:miR-128b
rs35336193	chr3:53296462	DCP1A:miR-769-5p
rs35103194	chr3:53296483	DCP1A:miR-580
rs34241531	chr3:53820905	CACNA1D:miR-151
rs3830517	chr3:55083358	CACNA2D3:miR-767-5p
rs358077	chr3:55083398	CACNA2D3:miR-433
rs17055392	chr3:55475740	WNT5A:miR-578
rs17055392	chr3:55475740	WNT5A:miR-581
rs1056613	chr3:55476727	WNT5A:miR-203
rs60853936	chr3:55476884	WNT5A:miR-30a-5p
rs60853936	chr3:55476884	WNT5A:miR-30b
rs60853936	chr3:55476884	WNT5A:miR-30c
rs60853936	chr3:55476884	WNT5A:miR-30d
rs60853936	chr3:55476884	WNT5A:miR-30e-5p
rs3178762	chr3:55476957	WNT5A:miR-548d
rs11426209	chr3:56630821	CCDC66:miR-153
rs5849222	chr3:57588752	FLJ34969:miR-519e
rs5849222	chr3:57588752	FLJ34969:miR-515-3p
rs56296846	chr3:57888696	SLMAP:miR-522
rs9986	chr3:58255446	ABHD6:miR-582
rs34753442	chr3:64054819	PRICKLE2:miR-573
rs34753442	chr3:64054819	PRICKLE2:miR-143
rs34585452	chr3:64057869	PRICKLE2:miR-33
rs34585452	chr3:64057869	PRICKLE2:miR-33b
rs62249882	chr3:64058178	PRICKLE2:miR-22
rs9826322	chr3:65321626	MAGI1:miR-495
rs35498666	chr3:67143879	KBTBD8:miR-660
rs10550093	chr3:69154794	TMF1:miR-559
rs36068708	chr3:69154797	TMF1:miR-559
rs3821564	chr3:69237076	ARL6IP5:miR-380-3p
rs11369213	chr3:69302244	FRMD4B:miR-382
rs11447250	chr3:69302245	FRMD4B:miR-382
rs34037301	chr3:70098380	MITF:miR-605
rs576	chr3:70099157	MITF:miR-597
rs576	chr3:70099157	MITF:miR-599
rs35450611	chr3:70099217	MITF:miR-155
rs36084453	chr3:70099937	MITF:miR-148b
rs36084453	chr3:70099937	MITF:miR-152
rs1043345	chr3:70100089	MITF:miR-512-3p

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs17008063	chr3:71089679	FOXP1:miR-512-5p
rs13082259	chr3:71089749	FOXP1:miR-155
rs13082259	chr3:71089749	FOXP1:miR-371
rs11425709	chr3:71090229	FOXP1:miR-103
rs11425709	chr3:71090229	FOXP1:miR-107
rs34865714	chr3:71090495	FOXP1:miR-655
rs59473871	chr3:71090608	FOXP1:miR-583
rs55867216	chr3:72508116	RYBP:miR-203
rs55843310	chr3:73514884	PDZRN3:miR-382
rs11127602	chr3:77779010	ROBO2:miR-493-5p
rs11127602	chr3:77779010	ROBO2:miR-33
rs14416	chr3:87070407	VGLL3:miR-138
rs6551275	chr3:88275113	ZNF654:miR-153
rs36097210	chr3:89611514	EPHA3:miR-625
rs36097210	chr3:89611514	EPHA3:miR-625
rs704586	chr3:99997851	DCBLD2:miR-582
rs1058732	chr3:99998659	DCBLD2:miR-484
rs1058732	chr3:99998659	DCBLD2:miR-24
rs17270986	chr3:100000762	DCBLD2:miR-509
rs1801864	chr3:101565101	TOMM70A:miR-214
rs15266	chr3:101565102	TOMM70A:miR-214
rs56809397	chr3:101565535	TOMM70A:miR-106a
rs56809397	chr3:101565535	TOMM70A:miR-106b
rs56809397	chr3:101565535	TOMM70A:miR-17-5p
rs56809397	chr3:101565535	TOMM70A:miR-20a
rs56809397	chr3:101565535	TOMM70A:miR-20b
rs1045610	chr3:101566710	TOMM70A:miR-302c*
rs11332311	chr3:101566795	TOMM70A:miR-421
rs11332311	chr3:101566795	TOMM70A:miR-545
rs10703455	chr3:101950308	TFG:miR-493-5p
rs5851221	chr3:101950879	ABI3BP:miR-217
rs5851221	chr3:101950879	ABI3BP:miR-222
rs1027704	chr3:101951120	ABI3BP:miR-181b
rs1027704	chr3:101951120	ABI3BP:miR-181d
rs4061093	chr3:101951120	ABI3BP:miR-181b
rs4061093	chr3:101951120	ABI3BP:miR-181d
rs1045682	chr3:102794325	PCNP:miR-507
rs35317759	chr3:102794958	PCNP:miR-140
rs35317759	chr3:102794958	PCNP:miR-522
rs13088976	chr3:103061032	NFKBIZ:miR-610
rs35312427	chr3:106859938	CBLB:miR-129
rs11402320	chr3:109244904	CD47:miR-577
rs340162	chr3:113319639	C3orf52:miR-559
rs7648784	chr3:114921497	MAK3:miR-590
rs14360	chr3:116922697	GAP43:miR-522
rs14360	chr3:116922697	GAP43:miR-373*
rs28399411	chr3:116922800	GAP43:miR-32
rs28399411	chr3:116922800	GAP43:miR-363
rs12173	chr3:121597549	FSTL1:miR-601
rs6782025	chr3:122620666	STXBP5L:miR-584
rs16833133	chr3:123627563	KPNA1:miR-520d*
rs3749210	chr3:123627787	KPNA1:miR-455

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs17201246	chr3:123628160	KPNA1:miR-629
rs14845	chr3:124813898	MYLK:miR-142-3p
rs34709307	chr3:124814466	MYLK:miR-561
rs35145256	chr3:126433474	ZNF148:miR-502
rs35145256	chr3:126433474	ZNF148:miR-370
rs11456717	chr3:126730881	OSBPL11:miR-421
rs11456717	chr3:126730881	OSBPL11:miR-545
rs35866601	chr3:127662927	ZXDC:miR-223
rs11540033	chr3:128236820	PLXNA1:miR-101
rs34069018	chr3:129681075	GATA2:miR-659
rs34629369	chr3:130016240	RAB7:miR-583
rs1050006	chr3:130016261	RAB7:miR-1
rs1050006	chr3:130016261	RAB7:miR-206
rs11542608	chr3:130371608	CNBP:miR-382
rs3208356	chr3:130852085	TMCC1:miR-579
rs34050914	chr3:130852293	TMCC1:miR-548b
rs34050914	chr3:130852293	TMCC1:miR-548c
rs11434122	chr3:132203059	ATP2C1:miR-153
rs11542183	chr3:132203235	ATP2C1:miR-577
rs11542183	chr3:132203235	ATP2C1:miR-559
rs5852630	chr3:132736580	CPNE4:miR-186
rs17412738	chr3:133740109	DNAJC13:miR-511
rs13576	chr3:133740436	DNAJC13:miR-181b
rs13576	chr3:133740436	DNAJC13:miR-181d
rs13576	chr3:133740436	DNAJC13:miR-574
rs13576	chr3:133740436	DNAJC13:miR-25
rs13576	chr3:133740436	DNAJC13:miR-367
rs13576	chr3:133740436	DNAJC13:miR-92
rs13576	chr3:133740436	DNAJC13:miR-92b
rs6671	chr3:133740437	DNAJC13:miR-181b
rs6671	chr3:133740437	DNAJC13:miR-181d
rs6671	chr3:133740437	DNAJC13:miR-574
rs6671	chr3:133740437	DNAJC13:miR-25
rs6671	chr3:133740437	DNAJC13:miR-367
rs6671	chr3:133740437	DNAJC13:miR-92
rs6671	chr3:133740437	DNAJC13:miR-92b
rs3193182	chr3:134597640	TMEM108:miR-320
rs56260919	chr3:134790405	CDV3:miR-559
rs2293374	chr3:135029935	RAB6B:miR-147
rs1131974	chr3:135557624	AMOTL2:miR-382
rs57278795	chr3:135802634	KY:miR-520g
rs57278795	chr3:135802634	KY:miR-520h
rs1880375	chr3:135804853	KY:miR-374
rs34290284	chr3:135804856	KY:miR-374
rs696520	chr3:137539551	STAG1:miR-633
rs3597	chr3:139447174	ARMC8:miR-199a*
rs3597	chr3:139447174	ARMC8:miR-153
rs11716014	chr3:139497639	ARMC8:miR-589
rs11716014	chr3:139497639	ARMC8:miR-548d
rs35338784	chr3:142178102	SLC25A36:miR-651
rs16852263	chr3:143512609	XRN1:miR-637
rs1272497	chr3:144019510	PCOLCE2:miR-25

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1272497	chr3:144019510	PCOLCE2:miR-367
rs1272497	chr3:144019510	PCOLCE2:miR-92
rs1272497	chr3:144019510	PCOLCE2:miR-92b
rs35706965	chr3:144258178	SR140:miR-128a
rs35706965	chr3:144258178	SR140:miR-128b
rs8831	chr3:144261685	SR140:miR-520d*
rs17667256	chr3:145192058	C3orf58:miR-490
rs1061262	chr3:147269980	PLOD2:miR-96
rs2279829	chr3:148589009	ZIC4:miR-519e
rs1802144	chr3:151161677	RNF13:miR-382
rs1052368	chr3:151165422	PFN2:miR-609
rs1052279	chr3:151165485	PFN2:miR-380-3p
rs11559021	chr3:151166490	PFN2:miR-563
rs11537936	chr3:151659284	TSC22D2:miR-489
rs62956961	chr3:151660050	TSC22D2:miR-570
rs11330414	chr3:151660062	TSC22D2:miR-577
rs10650924	chr3:151743125	SERP1:miR-130a
rs10650924	chr3:151743125	SERP1:miR-130b
rs10650924	chr3:151743125	SERP1:miR-301
rs10650924	chr3:151743125	SERP1:miR-454-3p
rs3086794	chr3:151743129	SERP1:miR-448
rs35579941	chr3:151744480	SERP1:miR-122a
rs10596613	chr3:151784706	EIF2A:miR-203
rs34423011	chr3:153662989	MBNL1:miR-380-3p
rs34423011	chr3:153662989	MBNL1:miR-302c*
rs60679534	chr3:153663007	MBNL1:miR-511
rs4356798	chr3:153663268	MBNL1:miR-590
rs1801768	chr3:153664110	MBNL1:miR-589
rs3211341	chr3:153666093	MBNL1:miR-633
rs3211342	chr3:153666177	MBNL1:miR-142-5p
rs1801771	chr3:153666196	MBNL1:miR-606
rs13093372	chr3:154364228	RAP2B:miR-584
rs61760458	chr3:156382035	MME:miR-594
rs3085724	chr3:157738210	KCNAB1:miR-548a
rs11546246	chr3:158348494	CCNL1:miR-130a
rs11546246	chr3:158348494	CCNL1:miR-130b
rs11546246	chr3:158348494	CCNL1:miR-301
rs11546246	chr3:158348494	CCNL1:miR-454-3p
rs11546246	chr3:158348494	CCNL1:miR-582
rs2614	chr3:158643693	PTX3:miR-506
rs6441173	chr3:159297782	SHOX2:miR-578
rs6441173	chr3:159297782	SHOX2:miR-581
rs56225390	chr3:161458084	IFT80:miR-142-5p
rs56389920	chr3:161700703	KPNA4:miR-486
rs11553778	chr3:161701473	KPNA4:miR-527
rs11391347	chr3:166388351	SLITRK3:miR-518b
rs11391347	chr3:166388351	SLITRK3:miR-518c
rs11391347	chr3:166388351	SLITRK3:miR-518d
rs9828429	chr3:171297425	PHC3:miR-186
rs11707876	chr3:171505135	PRKCI:miR-203
rs11540060	chr3:171506265	PRKCI:miR-588
rs495702	chr3:173598334	FND3B:miR-573

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs13064403	chr3:173831306	AADACL1:miR-517a
rs13064403	chr3:173831306	AADACL1:miR-517c
rs35755694	chr3:178224138	TBL1XR1:miR-18a*
rs34664728	chr3:178224366	TBL1XR1:miR-202
rs13064969	chr3:178224664	TBL1XR1:miR-503
rs13065151	chr3:178224781	TBL1XR1:miR-30a-5p
rs13065151	chr3:178224781	TBL1XR1:miR-30b
rs13065151	chr3:178224781	TBL1XR1:miR-30c
rs13065151	chr3:178224781	TBL1XR1:miR-30d
rs13065151	chr3:178224781	TBL1XR1:miR-30e-5p
rs13087746	chr3:178224806	TBL1XR1:miR-34a
rs13087746	chr3:178224806	TBL1XR1:miR-34c
rs13087746	chr3:178224806	TBL1XR1:miR-449
rs13087746	chr3:178224806	TBL1XR1:miR-449b
rs13087746	chr3:178224806	TBL1XR1:miR-142-3p
rs13087748	chr3:178224808	TBL1XR1:miR-34a
rs13087748	chr3:178224808	TBL1XR1:miR-34c
rs13087748	chr3:178224808	TBL1XR1:miR-449
rs13087748	chr3:178224808	TBL1XR1:miR-449b
rs13087748	chr3:178224808	TBL1XR1:miR-142-3p
rs13065166	chr3:178224841	TBL1XR1:miR-570
rs7616373	chr3:178225516	TBL1XR1:miR-335
rs6769752	chr3:180788540	ACTL6A:miR-203
rs35845439	chr3:181810200	TTC14:miR-383
rs11544675	chr3:181810457	TTC14:miR-143
rs55637125	chr3:182176697	FXR1:miR-432
rs3026204	chr3:182176743	FXR1:miR-609
rs11915160	chr3:182914265	SOX2:miR-382
rs11915160	chr3:182914265	SOX2:miR-524*
rs1057949	chr3:184144646	DCUN1D1:miR-589
rs11927407	chr3:184883182	KLHL24:miR-620
rs4148595	chr3:185120937	ABCC5:miR-34b
rs15954	chr3:185384228	AP2M1:miR-619
rs1801035	chr3:185384366	AP2M1:miR-9
rs11546693	chr3:185460132	CAMK2N2:miR-485-5p
rs56077555	chr3:185492902	ECE2:miR-324-5p
rs1061353	chr3:185535701	EIF4G1:miR-559
rs63665263	chr3:185590044	CHRD:let-7a
rs63665263	chr3:185590044	CHRD:let-7b
rs63665263	chr3:185590044	CHRD:let-7c
rs63665263	chr3:185590044	CHRD:let-7d
rs63665263	chr3:185590044	CHRD:let-7f
rs63665263	chr3:185590044	CHRD:let-7g
rs63665263	chr3:185590044	CHRD:let-7i
rs63665263	chr3:185590044	CHRD:miR-98
rs2673	chr3:185782518	EPHB3:miR-526b
rs2673	chr3:185782518	EPHB3:miR-145
rs35514470	chr3:185782736	EPHB3:miR-342
rs1949042	chr3:186278589	LOC285382:miR-384
rs35690642	chr3:186282322	LOC285382:miR-568
rs35690642	chr3:186282322	LOC285382:miR-548c
rs3834186	chr3:186683293	MAP3K13:miR-450



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3834186	chr3:186683293	MAP3K13:miR-129
rs3087964	chr3:186831096	SENP2:miR-520a*
rs3087964	chr3:186831096	SENP2:miR-525
rs7355810	chr3:186845006	IGF2BP2:miR-485-5p
rs1061425	chr3:187117369	SFRS10:miR-142-3p
rs56220221	chr3:187349460	DGKG:miR-568
rs28480687	chr3:187349461	DGKG:miR-568
rs3917143	chr3:187990087	EIF4A2:miR-511
rs3206822	chr3:187990259	EIF4A2:miR-145
rs34066451	chr3:188922148	BCL6:miR-548a
rs34066451	chr3:188922148	BCL6:miR-9*
rs58900133	chr3:191507575	CLDN1:miR-323
rs17500920	chr3:191507587	CLDN1:miR-576
rs1024949	chr3:191830426	IL1RAP:miR-539
rs35806660	chr3:193344338	FGF12:miR-524*
rs10419	chr3:194897956	OPA1:miR-484
rs9414	chr3:196724780	PPP1R2:miR-106a
rs9414	chr3:196724780	PPP1R2:miR-106b
rs9414	chr3:196724780	PPP1R2:miR-17-5p
rs9414	chr3:196724780	PPP1R2:miR-20a
rs9414	chr3:196724780	PPP1R2:miR-20b
rs3832181	chr3:197567307	UBXD7:miR-369-3p
rs3832181	chr3:197567307	UBXD7:miR-655
rs58204718	chr3:197795721	FBXO45:miR-558
rs1046735	chr3:198039964	PAK2:miR-559
rs1046736	chr3:198039972	PAK2:miR-545
rs11555147	chr3:198043639	PAK2:miR-577
rs11555147	chr3:198043639	PAK2:miR-559
rs33985555	chr4:77605	ZNF595:miR-186
rs17164985	chr4:752285	PCGF3:miR-136
rs55780751	chr4:752296	PCGF3:miR-27a
rs55780751	chr4:752296	PCGF3:miR-27b
rs1049497	chr4:1664561	SLBP:miR-624
rs61738628	chr4:1688860	TMEM129:miR-141
rs61738628	chr4:1688860	TMEM129:miR-200a
rs61738628	chr4:1688860	TMEM129:miR-200b
rs61738628	chr4:1688860	TMEM129:miR-200c
rs34717201	chr4:1914458	WHSC1:miR-583
rs3762940	chr4:2203164	C4orf15:miR-583
rs1803019	chr4:2704031	C4orf8:miR-190
rs35845646	chr4:4471195	D4S234E:miR-659
rs35845646	chr4:4471195	D4S234E:miR-521
rs11549294	chr4:6935828	KIAA0232:miR-139
rs11549294	chr4:6935828	KIAA0232:miR-27a
rs11549294	chr4:6935828	KIAA0232:miR-27b
rs11549293	chr4:6935955	KIAA0232:miR-495
rs1043704	chr4:7109092	MGC21874:miR-132
rs1043704	chr4:7109092	MGC21874:miR-212
rs34084354	chr4:7109946	MGC21874:miR-302c*
rs28640905	chr4:7795397	SORCS2:miR-583
rs1802032	chr4:9685225	WDR1:miR-544
rs7441357	chr4:12978588	RAB28:miR-361

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs35180652	chr4:14678064	CPEB2:miR-647
rs35180652	chr4:14678064	CPEB2:miR-522
rs12643066	chr4:14678684	CPEB2:miR-624
rs10013449	chr4:14678687	CPEB2:miR-624
rs34789260	chr4:14679652	CPEB2:miR-368
rs13116725	chr4:14679792	CPEB2:miR-552
rs13148665	chr4:14679798	CPEB2:miR-552
rs55803189	chr4:15772135	TAPT1:miR-527
rs56147460	chr4:15772136	TAPT1:miR-527
rs14496	chr4:16112325	LDB2:miR-582
rs16895878	chr4:17456379	LCORL:miR-302a
rs16895878	chr4:17456379	LCORL:miR-302b
rs16895878	chr4:17456379	LCORL:miR-302c
rs16895878	chr4:17456379	LCORL:miR-302d
rs16895878	chr4:17456379	LCORL:miR-373
rs16895878	chr4:17456379	LCORL:miR-520a
rs16895878	chr4:17456379	LCORL:miR-520b
rs16895878	chr4:17456379	LCORL:miR-520c
rs16895878	chr4:17456379	LCORL:miR-520d
rs16895878	chr4:17456379	LCORL:miR-520e
rs16895878	chr4:17456379	LCORL:miR-526b*
rs2288308	chr4:20340145	KCNIP4:miR-302a
rs2288308	chr4:20340145	KCNIP4:miR-302b
rs2288308	chr4:20340145	KCNIP4:miR-302c
rs2288308	chr4:20340145	KCNIP4:miR-302d
rs2288308	chr4:20340145	KCNIP4:miR-373
rs2288308	chr4:20340145	KCNIP4:miR-520a
rs2288308	chr4:20340145	KCNIP4:miR-520b
rs2288308	chr4:20340145	KCNIP4:miR-520c
rs2288308	chr4:20340145	KCNIP4:miR-520d
rs2288308	chr4:20340145	KCNIP4:miR-520e
rs2288308	chr4:20340145	KCNIP4:miR-526b*
rs12649419	chr4:20340596	KCNIP4:miR-188
rs11723169	chr4:22337396	LOC643751:miR-31
rs58448908	chr4:23402849	PPARGC1A:miR-369-3p
rs58448908	chr4:23402849	PPARGC1A:miR-655
rs17847356	chr4:23403134	PPARGC1A:miR-126*
rs2279525	chr4:23403350	PPARGC1A:miR-323
rs41359445	chr4:23403442	PPARGC1A:miR-600
rs61351054	chr4:23403791	PPARGC1A:miR-659
rs3774923	chr4:23404162	PPARGC1A:miR-510
rs41398746	chr4:23404662	PPARGC1A:miR-626
rs17847352	chr4:23404892	PPARGC1A:miR-570
rs17847352	chr4:23404892	PPARGC1A:miR-103
rs17847352	chr4:23404892	PPARGC1A:miR-107
rs6821591	chr4:23406098	PPARGC1A:miR-187
rs3796780	chr4:24888086	PI4K2B:miR-125a
rs3796780	chr4:24888086	PI4K2B:miR-125b
rs1129231	chr4:26366002	TBC1D19:miR-432
rs35928836	chr4:26634190	STIM2:miR-145
rs35928836	chr4:26634190	STIM2:miR-30a-3p
rs35928836	chr4:26634190	STIM2:miR-30e-3p

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs35840384	chr4:26634191	STIM2:miR-145
rs36111019	chr4:26634191	STIM2:miR-145
rs35840384	chr4:26634191	STIM2:miR-30a-3p
rs35840384	chr4:26634191	STIM2:miR-30e-3p
rs36111019	chr4:26634191	STIM2:miR-30a-3p
rs36111019	chr4:26634191	STIM2:miR-30e-3p
rs61795382	chr4:30756789	PCDH7:miR-516-5p
rs16884447	chr4:30757400	PCDH7:miR-609
rs58334461	chr4:37289130	RELL1:miR-106a
rs58334461	chr4:37289130	RELL1:miR-106b
rs58334461	chr4:37289130	RELL1:miR-17-5p
rs58334461	chr4:37289130	RELL1:miR-20a
rs58334461	chr4:37289130	RELL1:miR-20b
rs58334461	chr4:37289130	RELL1:miR-302a
rs58334461	chr4:37289130	RELL1:miR-302b
rs58334461	chr4:37289130	RELL1:miR-302c
rs58334461	chr4:37289130	RELL1:miR-302d
rs58334461	chr4:37289130	RELL1:miR-373
rs58334461	chr4:37289130	RELL1:miR-520a
rs58334461	chr4:37289130	RELL1:miR-520b
rs58334461	chr4:37289130	RELL1:miR-520c
rs58334461	chr4:37289130	RELL1:miR-520d
rs58334461	chr4:37289130	RELL1:miR-520e
rs58334461	chr4:37289130	RELL1:miR-526b*
rs62307873	chr4:39501052	PDS5A:miR-521
rs1046817	chr4:39502394	PDS5A:miR-18a
rs1046817	chr4:39502394	PDS5A:miR-18b
rs1046817	chr4:39502394	PDS5A:miR-519a
rs1046817	chr4:39502394	PDS5A:miR-519b
rs1046817	chr4:39502394	PDS5A:miR-519c
rs1063611	chr4:41440919	PHOX2B:miR-448
rs1063611	chr4:41440919	PHOX2B:miR-493-5p
rs35977299	chr4:41441126	PHOX2B:miR-649
rs35350459	chr4:41441177	PHOX2B:miR-185
rs6826373	chr4:41441217	PHOX2B:miR-622
rs62412180	chr4:41441234	PHOX2B:miR-582
rs10018324	chr4:41808006	CCDC4:miR-302c*
rs1141790	chr4:42106214	ATP8A1:miR-613
rs1128553	chr4:44398963	GNPDA2:miR-577
rs45527131	chr4:47833675	TEC:miR-146a
rs45527131	chr4:47833675	TEC:miR-146b
rs45527131	chr4:47833675	TEC:miR-548a
rs17577083	chr4:52474992	DCUN1D4:miR-571
rs17051586	chr4:53158323	USP46:miR-451
rs7680422	chr4:54856274	PDGFRA:miR-33
rs7680422	chr4:54856274	PDGFRA:miR-33b
rs7680422	chr4:54856274	PDGFRA:miR-544
rs10529257	chr4:55995516	CLOCK:miR-490
rs5858333	chr4:55995806	CLOCK:miR-368
rs57031518	chr4:56891127	KIAA1211:miR-577
rs58519345	chr4:56891303	KIAA1211:miR-656
rs13122620	chr4:56891317	KIAA1211:miR-655

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs13122620	chr4:56891317	KIAA1211:miR-369-3p
rs1057974	chr4:68167213	UBE1L2:miR-583
rs1057974	chr4:68167213	UBE1L2:miR-539
rs35250360	chr4:68862243	YTHDC1:miR-145
rs6934	chr4:71877985	RUFY3:miR-325
rs7663882	chr4:72067009	MOBKL1A:miR-494
rs7663882	chr4:72067009	MOBKL1A:miR-641
rs34176960	chr4:72067307	MOBKL1A:miR-491
rs1062677	chr4:72652409	SLC4A4:miR-576
rs1062678	chr4:72653121	SLC4A4:miR-421
rs1062679	chr4:72653270	SLC4A4:miR-373*
rs1062679	chr4:72653270	SLC4A4:miR-616
rs4403013	chr4:72653320	SLC4A4:miR-369-3p
rs4403013	chr4:72653320	SLC4A4:miR-374
rs34921070	chr4:72653321	SLC4A4:miR-369-3p
rs34921070	chr4:72653321	SLC4A4:miR-374
rs4403014	chr4:72653325	SLC4A4:miR-369-3p
rs4403014	chr4:72653325	SLC4A4:miR-374
rs41265675	chr4:72653335	SLC4A4:miR-23a
rs41265675	chr4:72653335	SLC4A4:miR-23b
rs10010105	chr4:72654371	SLC4A4:miR-510
rs3088058	chr4:72656424	SLC4A4:miR-577
rs3088058	chr4:72656424	SLC4A4:miR-559
rs2682	chr4:73365593	ADAMTS3:miR-495
rs3211021	chr4:75080536	CXCL5:miR-126*
rs1460008	chr4:75473146	EREG:miR-181b
rs1460008	chr4:75473146	EREG:miR-181d
rs17000606	chr4:76671643	THAP6:miR-641
rs533820	chr4:77090424	SDAD1:miR-548b
rs1127710	chr4:77254890	NUP54:miR-577
rs10654	chr4:77254919	NUP54:miR-522
rs33933171	chr4:77254934	NUP54:miR-196a
rs33933171	chr4:77254934	NUP54:miR-196b
rs33933171	chr4:77254934	NUP54:miR-140
rs9652	chr4:77254938	NUP54:miR-196a
rs9652	chr4:77254938	NUP54:miR-196b
rs9652	chr4:77254938	NUP54:miR-140
rs13128914	chr4:78855678	CNOT6L:miR-182*
rs17448633	chr4:78857177	CNOT6L:miR-143
rs17448633	chr4:78857177	CNOT6L:miR-653
rs3205281	chr4:78857515	CNOT6L:miR-643
rs34724331	chr4:78858029	CNOT6L:miR-494
rs34724331	chr4:78858029	CNOT6L:miR-641
rs34724331	chr4:78858029	CNOT6L:miR-410
rs34724331	chr4:78858029	CNOT6L:miR-369-3p
rs1846912	chr4:78858946	CNOT6L:miR-559
rs4109404	chr4:78859050	CNOT6L:miR-192
rs4109404	chr4:78859050	CNOT6L:miR-215
rs1846913	chr4:78859055	CNOT6L:miR-192
rs1846913	chr4:78859055	CNOT6L:miR-215
rs1846913	chr4:78859055	CNOT6L:miR-486
rs11098228	chr4:79684002	FRAS1:miR-381

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs17003335	chr4:79684394	FRAS1:miR-768-5p
rs58762366	chr4:80058707	PAQR3:miR-203
rs7747	chr4:81046086	ANTXR2:miR-590
rs28760378	chr4:81343968	PRDM8:miR-618
rs35168339	chr4:82193800	BMP3:miR-34a
rs35168339	chr4:82193800	BMP3:miR-34c
rs35168339	chr4:82193800	BMP3:miR-449
rs35168339	chr4:82193800	BMP3:miR-449b
rs33951934	chr4:82197399	BMP3:miR-656
rs1801067	chr4:83563465	HNRPDL:miR-422a
rs4693031	chr4:83625544	FLJ12993:miR-125a
rs4693031	chr4:83625544	FLJ12993:miR-125b
rs6840	chr4:83770031	SCD5:miR-520a*
rs6840	chr4:83770031	SCD5:miR-525
rs35490627	chr4:83771302	SCD5:miR-495
rs56205403	chr4:84068004	DKFZp686L1814:miR-361
rs56205403	chr4:84068004	DKFZp686L1814:miR-583
rs1061727	chr4:85811372	WDFY3:miR-105
rs1061727	chr4:85811372	WDFY3:miR-519e
rs56937789	chr4:87141163	ARHGAP24:miR-203
rs60234541	chr4:87141328	ARHGAP24:miR-545
rs34636402	chr4:88280653	AFF1:miR-380-3p
rs35907994	chr4:88280669	AFF1:miR-380-3p
rs56202513	chr4:88280669	AFF1:miR-380-3p
rs35907994	chr4:88280669	AFF1:miR-380-3p
rs56202513	chr4:88280669	AFF1:miR-380-3p
rs3733372	chr4:88280979	AFF1:miR-381
rs9138	chr4:89123366	SPP1:miR-544
rs2602122	chr4:89836464	NAP1L5:miR-222
rs17016074	chr4:90866301	SNCA:miR-31
rs35733299	chr4:90866426	SNCA:miR-506
rs62320431	chr4:95430481	SMARCAD1:miR-320
rs8336	chr4:95430633	SMARCAD1:miR-143
rs8336	chr4:95430633	SMARCAD1:miR-573
rs36011297	chr4:100020327	EIF4E:miR-559
rs1803729	chr4:101088495	H2AFZ:miR-9*
rs1047211	chr4:102164436	PPP3CA:miR-338
rs1047211	chr4:102164436	PPP3CA:miR-770-5p
rs35136542	chr4:103757301	NFKB1:miR-450
rs35136542	chr4:103757301	NFKB1:miR-129
rs5860728	chr4:103757302	NFKB1:miR-450
rs5860728	chr4:103757302	NFKB1:miR-129
rs1054495	chr4:103936461	UBE2D3:miR-185
rs11558052	chr4:103937161	UBE2D3:miR-222
rs34841746	chr4:106381877	KIAA1546:miR-561
rs34841746	chr4:106381877	KIAA1546:miR-520d*
rs17036408	chr4:107110147	NPNT:miR-190
rs28457630	chr4:107112095	NPNT:miR-579
rs1802116	chr4:108754558	PAPSS1:miR-410
rs1802116	chr4:108754558	PAPSS1:miR-194
rs9569	chr4:108754784	PAPSS1:miR-421
rs4365796	chr4:109189332	LEF1:miR-557

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs34730464	chr4:111703828	ENPEP:miR-550
rs2739202	chr4:111758171	PITX2:miR-539
rs2739201	chr4:111758173	PITX2:miR-539
rs58434028	chr4:111758264	PITX2:miR-623
rs58434028	chr4:111758264	PITX2:miR-502
rs6533526	chr4:111758276	PITX2:miR-548c
rs1045940	chr4:113329151	FLJ39370:miR-527
rs3733630	chr4:113416236	TIFA:miR-186
rs13124509	chr4:114522474	ANK2:miR-142-5p
rs55917368	chr4:114522624	ANK2:miR-33
rs55917368	chr4:114522624	ANK2:miR-586
rs34406850	chr4:114595045	CAMK2D:miR-765
rs35790127	chr4:115042089	ARSJ:miR-559
rs15128	chr4:119863575	SEC24D:miR-144
rs58051836	chr4:120635327	PDE5A:miR-202
rs13107938	chr4:122469857	GPR103:miR-373*
rs1048201	chr4:124033758	FGF2:miR-194
rs3804158	chr4:124034350	FGF2:miR-377
rs45441398	chr4:124036022	FGF2:miR-410
rs7655413	chr4:124036978	FGF2:miR-26a
rs7655413	chr4:124036978	FGF2:miR-26b
rs41300351	chr4:129410761	PGRMC2:miR-493-5p
rs3816604	chr4:130014194	PHF17:miR-141
rs3816604	chr4:130014194	PHF17:miR-200a
rs10970	chr4:134331061	PCDH10:miR-24
rs1058267	chr4:134332052	PCDH10:miR-496
rs11545027	chr4:141761783	TBC1D9:miR-431
rs11365088	chr4:144361236	USP38:miR-433
rs12501651	chr4:144361609	USP38:miR-128a
rs12501651	chr4:144361609	USP38:miR-128b
rs17017380	chr4:144362051	USP38:miR-802
rs62344037	chr4:145878648	HHIP:miR-122a
rs35984115	chr4:146268771	ABCE1:miR-506
rs36227325	chr4:146276336	OTUD4:miR-520g
rs36227325	chr4:146276336	OTUD4:miR-520h
rs36227325	chr4:146276336	OTUD4:miR-106a
rs36227325	chr4:146276336	OTUD4:miR-106b
rs36227325	chr4:146276336	OTUD4:miR-17-5p
rs36227325	chr4:146276336	OTUD4:miR-20a
rs36227325	chr4:146276336	OTUD4:miR-20b
rs36227325	chr4:146276336	OTUD4:miR-302a
rs36227325	chr4:146276336	OTUD4:miR-302b
rs36227325	chr4:146276336	OTUD4:miR-302c
rs36227325	chr4:146276336	OTUD4:miR-302d
rs36227325	chr4:146276336	OTUD4:miR-373
rs36227325	chr4:146276336	OTUD4:miR-520a
rs36227325	chr4:146276336	OTUD4:miR-520b
rs36227325	chr4:146276336	OTUD4:miR-520c
rs36227325	chr4:146276336	OTUD4:miR-520d
rs36227325	chr4:146276336	OTUD4:miR-520e
rs36227325	chr4:146276336	OTUD4:miR-526b*
rs1063615	chr4:146276389	OTUD4:miR-607

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs36227003	chr4:146277274	OTUD4:miR-199a
rs36227003	chr4:146277274	OTUD4:miR-199b
rs11416	chr4:146698557	SMAD1:miR-650
rs11416	chr4:146698557	SMAD1:miR-518f*
rs11416	chr4:146698557	SMAD1:miR-520a*
rs11416	chr4:146698557	SMAD1:miR-525
rs11416	chr4:146698557	SMAD1:miR-526a
rs11416	chr4:146698557	SMAD1:miR-526c
rs35586342	chr4:149221047	NR3C2:miR-25
rs35586342	chr4:149221047	NR3C2:miR-367
rs35586342	chr4:149221047	NR3C2:miR-92
rs35586342	chr4:149221047	NR3C2:miR-92b
rs60709046	chr4:149221545	NR3C2:miR-19a
rs60709046	chr4:149221545	NR3C2:miR-19b
rs17026780	chr4:151405888	LRBA:miR-582
rs4399968	chr4:153462774	FBXW7:miR-593
rs4399968	chr4:153462774	FBXW7:miR-624
rs4399968	chr4:153462774	FBXW7:miR-338
rs55788832	chr4:153769030	FLJ32028:miR-578
rs55788832	chr4:153769030	FLJ32028:miR-581
rs36107658	chr4:154051178	ARFIP1:miR-204
rs36107658	chr4:154051178	ARFIP1:miR-211
rs17029398	chr4:154118006	KIAA1727:miR-548a
rs17029398	chr4:154118006	KIAA1727:miR-9*
rs1062835	chr4:154478095	TRIM2:miR-432
rs3180908	chr4:157902757	PDGFC:miR-767-5p
rs41280451	chr4:158506304	GRIA2:miR-643
rs3749464	chr4:160499182	RAPGEF2:miR-196a
rs3749464	chr4:160499182	RAPGEF2:miR-196b
rs35914540	chr4:162526061	FSTL5:miR-522
rs12200	chr4:166638888	CPE:miR-130a
rs12200	chr4:166638888	CPE:miR-130b
rs12200	chr4:166638888	CPE:miR-301
rs12200	chr4:166638888	CPE:miR-454-3p
rs57057442	chr4:170085952	PALLD:miR-641
rs12509103	chr4:171144370	MFAP3L:miR-363*
rs55782822	chr4:171149045	MFAP3L:miR-217
rs55782822	chr4:171149045	MFAP3L:miR-222
rs1050092	chr4:175394787	FBXO8:miR-496
rs45522334	chr4:175649595	HPGD:miR-579
rs17061725	chr4:176791216	GPM6A:miR-520d*
rs17061725	chr4:176791216	GPM6A:miR-330
rs17061725	chr4:176791216	GPM6A:miR-518b
rs17061725	chr4:176791216	GPM6A:miR-518c
rs17061725	chr4:176791216	GPM6A:miR-518d
rs2278903	chr4:177486527	SPCS3:miR-569
rs7671657	chr4:183959166	ODZ3:miR-548c
rs7672260	chr4:183959450	ODZ3:miR-363
rs35670696	chr4:183960330	ODZ3:miR-183
rs35670696	chr4:183960330	ODZ3:miR-633
rs35670696	chr4:183960330	ODZ3:miR-199a*
rs11371540	chr4:183960771	ODZ3:miR-593

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs11371540	chr4:183960771	ODZ3:miR-624
rs11542347	chr4:183960774	ODZ3:miR-593
rs11542347	chr4:183960774	ODZ3:miR-624
rs62336285	chr4:183961062	ODZ3:miR-369-3p
rs3193661	chr4:184669141	ING2:miR-568
rs3193659	chr4:184669151	ING2:miR-559
rs58025549	chr4:185545979	IRF2:miR-595
rs3832301	chr4:185545980	IRF2:miR-595
rs61441758	chr4:185545980	IRF2:miR-595
rs1803900	chr4:185914115	ACSL1:miR-216
rs2292899	chr4:185915104	ACSL1:miR-34b
rs2292899	chr4:185915104	ACSL1:miR-34a
rs2292899	chr4:185915104	ACSL1:miR-34c
rs2292899	chr4:185915104	ACSL1:miR-449
rs2292899	chr4:185915104	ACSL1:miR-449b
rs2292899	chr4:185915104	ACSL1:miR-142-3p
rs6813224	chr4:186320807	KIAA1430:miR-802
rs3842594	chr4:186744223	SORBS2:miR-549
rs33967166	chr4:186744224	SORBS2:miR-549
rs3172664	chr4:186744970	SORBS2:miR-126*
rs35072060	chr4:187746058	FAT:miR-140
rs11542880	chr4:187746147	FAT:miR-551b
rs60826175	chr5:713344	TPPP:miR-568
rs3830370	chr5:1930639	IRX4:miR-122a
rs1043196	chr5:5543270	KIAA0947:miR-208
rs28381437	chr5:6809157	POLS:miR-448
rs9332	chr5:7953712	MTRR:miR-361
rs61752751	chr5:11025711	CTNND2:miR-548c
rs1044405	chr5:16526310	FLJ20152:miR-484
rs32147	chr5:16527644	FLJ20152:miR-32
rs1393229	chr5:17329645	BASP1:miR-613
rs1393228	chr5:17329647	BASP1:miR-613
rs1393227	chr5:17329674	BASP1:miR-539
rs3832327	chr5:32144445	PDZD2:miR-600
rs33977079	chr5:32144446	PDZD2:miR-600
rs3062060	chr5:32144450	PDZD2:miR-600
rs55693155	chr5:32391034	ZFR:miR-105
rs15075	chr5:32637131	SUB1:miR-563
rs14966	chr5:34990840	DNAJA5:miR-30a-5p
rs14966	chr5:34990840	DNAJA5:miR-30b
rs14966	chr5:34990840	DNAJA5:miR-30c
rs14966	chr5:34990840	DNAJA5:miR-30d
rs14966	chr5:34990840	DNAJA5:miR-30e-5p
rs2269273	chr5:36723855	SLC1A3:miR-568
rs34031034	chr5:37100871	NIPBL:miR-544
rs10315	chr5:38974100	RICTOR:miR-577
rs36033427	chr5:38974719	RICTOR:miR-203
rs36033427	chr5:38974719	RICTOR:miR-613
rs45622440	chr5:38974721	RICTOR:miR-203
rs45622440	chr5:38974721	RICTOR:miR-613
rs16867891	chr5:38976307	RICTOR:miR-518c*
rs2163299	chr5:38977464	RICTOR:miR-548b



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs2163299	chr5:38977464	RICTOR:miR-548c
rs56362760	chr5:39407562	DAB2:miR-573
rs2738242	chr5:39407619	DAB2:miR-568
rs2542708	chr5:39407668	DAB2:miR-522
rs2542709	chr5:39407743	DAB2:miR-134
rs34292915	chr5:41344942	PLCXD3:miR-651
rs36055260	chr5:41345864	PLCXD3:miR-630
rs45458097	chr5:42755538	GHR:miR-208
rs11369980	chr5:42755825	GHR:miR-548c
rs33932726	chr5:42755826	GHR:miR-548c
rs34239256	chr5:42835812	SEPP1:miR-633
rs28919927	chr5:42835814	SEPP1:miR-633
rs41268421	chr5:50725740	ISL1:miR-188
rs2233213	chr5:52433762	MOCS2:miR-561
rs567	chr5:53014854	NDUFS4:miR-32
rs34170674	chr5:53876639	SNAG1:miR-185
rs10033	chr5:54756680	PPAP2A:miR-503
rs4084822	chr5:55272985	IL6ST:miR-372
rs4084822	chr5:55272985	IL6ST:miR-93
rs4084822	chr5:55272985	IL6ST:miR-512-3p
rs702688	chr5:56226743	MAP3K1:miR-576
rs7711525	chr5:56226950	MAP3K1:miR-559
rs10045390	chr5:56253098	MIER3:miR-30a-5p
rs10045390	chr5:56253098	MIER3:miR-30b
rs10045390	chr5:56253098	MIER3:miR-30c
rs10045390	chr5:56253098	MIER3:miR-30d
rs10045390	chr5:56253098	MIER3:miR-30e-5p
rs1043020	chr5:57785672	PLK2:miR-561
rs15009	chr5:57786107	PLK2:miR-516-3p
rs4647102	chr5:60235120	ERCC8:miR-634
rs34439084	chr5:61717353	KIF2A:miR-216
rs34018584	chr5:61717685	KIF2A:miR-1
rs34018584	chr5:61717685	KIF2A:miR-206
rs16892964	chr5:63943020	R7BP:miR-580
rs7705258	chr5:64350127	SDCCAG10:miR-182
rs2166388	chr5:65154905	NLN:miR-579
rs2166389	chr5:65154906	NLN:miR-579
rs16894862	chr5:65410275	ERBB2IP:miR-140
rs10471668	chr5:65410797	ERBB2IP:miR-511
rs56286990	chr5:65411351	ERBB2IP:miR-518c*
rs56242459	chr5:65411819	ERBB2IP:miR-189
rs34416301	chr5:65411822	ERBB2IP:miR-189
rs34416301	chr5:65411822	ERBB2IP:miR-512-3p
rs55996357	chr5:65411943	ERBB2IP:miR-561
rs60627043	chr5:65510861	SFRS12:miR-577
rs3846482	chr5:65510996	SFRS12:miR-199a*
rs5868531	chr5:67629989	PIK3R1:miR-512-3p
rs5868531	chr5:67629989	PIK3R1:miR-153
rs5868532	chr5:67632926	PIK3R1:miR-103
rs5868532	chr5:67632926	PIK3R1:miR-107
rs34873643	chr5:67632927	PIK3R1:miR-103
rs34873643	chr5:67632927	PIK3R1:miR-107

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs58068754	chr5:71540049	MAP1B:miR-580
rs11551257	chr5:71540121	MAP1B:miR-452*
rs3191502	chr5:71540920	MAP1B:miR-589
rs34653826	chr5:72241623	TNPO1:miR-203
rs35984748	chr5:72244467	TNPO1:miR-331
rs12518829	chr5:72420018	FCHO2:miR-636
rs12518829	chr5:72420018	FCHO2:miR-218
rs60533722	chr5:72883969	ANKRA2:miR-23a
rs60533722	chr5:72883969	ANKRA2:miR-23b
rs35436905	chr5:74692553	HMGCR:miR-655
rs6864605	chr5:77334291	AP3B1:miR-559
rs11552314	chr5:77334375	AP3B1:miR-630
rs6870027	chr5:77810312	SCAMP1:miR-548c
rs11558670	chr5:77816981	LHFPL2:miR-659
rs11432990	chr5:77817823	LHFPL2:miR-186
rs3087813	chr5:79017306	PAPD4:miR-562
rs1055189	chr5:79314887	MTX3:miR-569
rs1802976	chr5:79809451	ZFYVE16:miR-154
rs9641	chr5:80751669	SSBP2:miR-203
rs17206014	chr5:82912040	CSPG2:miR-573
rs10474257	chr5:86722661	RASA1:miR-19a
rs10474257	chr5:86722661	RASA1:miR-19b
rs1803616	chr5:86722964	RASA1:miR-518c*
rs62368952	chr5:86723405	RASA1:miR-582
rs56660854	chr5:88054157	MEF2C:miR-548a
rs56660854	chr5:88054157	MEF2C:miR-9*
rs35930204	chr5:89725390	CETN3:miR-154*
rs35930204	chr5:89725390	CETN3:miR-487a
rs2033261	chr5:89789858	LOC153364:miR-181b
rs2033261	chr5:89789858	LOC153364:miR-181d
rs13355867	chr5:89791858	LOC153364:miR-494
rs13355867	chr5:89791858	LOC153364:miR-641
rs13355867	chr5:89791858	LOC153364:miR-410
rs13355867	chr5:89791858	LOC153364:miR-369-3p
rs34017289	chr5:89792196	LOC153364:miR-381
rs34017289	chr5:89792196	LOC153364:miR-524*
rs11557537	chr5:95157675	RHOBTB3:miR-106a
rs11557537	chr5:95157675	RHOBTB3:miR-106b
rs11557537	chr5:95157675	RHOBTB3:miR-17-5p
rs11557537	chr5:95157675	RHOBTB3:miR-20a
rs11557537	chr5:95157675	RHOBTB3:miR-20b
rs11557537	chr5:95157675	RHOBTB3:miR-142-5p
rs11557537	chr5:95157675	RHOBTB3:miR-559
rs11557537	chr5:95157675	RHOBTB3:miR-142-5p
rs35457589	chr5:95246914	ELL2:miR-635
rs35630308	chr5:95249197	ELL2:miR-548c
rs2348979	chr5:95249642	ELL2:miR-650
rs2348979	chr5:95249642	ELL2:miR-34b
rs2348979	chr5:95249642	ELL2:miR-34a
rs2348979	chr5:95249642	ELL2:miR-34c
rs2348979	chr5:95249642	ELL2:miR-449
rs2348979	chr5:95249642	ELL2:miR-449b

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs2348980	chr5:95249654	ELL2:miR-569
rs28118	chr5:96134594	CAST:miR-30a-5p
rs28118	chr5:96134594	CAST:miR-30b
rs28118	chr5:96134594	CAST:miR-30c
rs28118	chr5:96134594	CAST:miR-30d
rs28118	chr5:96134594	CAST:miR-30e-5p
rs2455425	chr5:98219636	CHD1:miR-30a-5p
rs2455425	chr5:98219636	CHD1:miR-30b
rs2455425	chr5:98219636	CHD1:miR-30c
rs2455425	chr5:98219636	CHD1:miR-30d
rs2455425	chr5:98219636	CHD1:miR-30e-5p
rs3086314	chr5:99949884	UNQ1912:miR-365
rs17779334	chr5:100171748	ST8SIA4:miR-565
rs5869926	chr5:100174922	ST8SIA4:miR-577
rs33919201	chr5:100174923	ST8SIA4:miR-577
rs10075853	chr5:100175108	ST8SIA4:miR-218
rs3209752	chr5:102393147	PAM:miR-140
rs8488	chr5:102566651	HISPPD1:miR-181b
rs8488	chr5:102566651	HISPPD1:miR-181d
rs17297682	chr5:102566693	HISPPD1:miR-181a
rs17297682	chr5:102566693	HISPPD1:miR-181c
rs6887316	chr5:108699607	PJA2:miR-580
rs56059589	chr5:109230778	MAN2A1:miR-135a
rs56059589	chr5:109230778	MAN2A1:miR-135b
rs17839485	chr5:111093245	C5orf13:miR-583
rs1056131	chr5:111093663	C5orf13:miR-604
rs1804197	chr5:112207808	APC:miR-30a-3p
rs1804197	chr5:112207808	APC:miR-30e-3p
rs6875894	chr5:112207864	APC:miR-135a
rs6875894	chr5:112207864	APC:miR-135b
rs6875894	chr5:112207864	APC:miR-584
rs34867143	chr5:112208091	APC:miR-223
rs11432316	chr5:112208127	APC:miR-568
rs11432316	chr5:112208127	APC:miR-129
rs34829795	chr5:112208128	APC:miR-568
rs34829795	chr5:112208128	APC:miR-129
rs12189	chr5:112208156	APC:miR-422a
rs11373376	chr5:112208382	APC:miR-582
rs3984997	chr5:114886725	FEM1C:miR-202
rs3984998	chr5:114886729	FEM1C:miR-202
rs3776801	chr5:114887552	FEM1C:miR-568
rs34109965	chr5:114977340	TMED7:miR-30a-3p
rs34109965	chr5:114977340	TMED7:miR-30e-3p
rs11550719	chr5:114977481	TMED7:miR-582
rs9637898	chr5:114979755	TMED7:miR-768-5p
rs6895938	chr5:115277497	AP3S1:miR-488
rs6895938	chr5:115277497	AP3S1:miR-515-5p
rs6895938	chr5:115277497	AP3S1:miR-519e*
rs6895941	chr5:115277498	AP3S1:miR-488
rs6895941	chr5:115277498	AP3S1:miR-515-5p
rs6895941	chr5:115277498	AP3S1:miR-519e*
rs7712615	chr5:115808863	SEMA6A:miR-376a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs7712615	chr5:115808863	SEMA6A:miR-376b
rs35380761	chr5:120050693	LOC51334:miR-628
rs10558436	chr5:122193370	SNX2:miR-568
rs11952411	chr5:122979574	CSNK1G3:miR-628
rs57925933	chr5:124000697	ZNF608:miR-508
rs33927774	chr5:124000698	ZNF608:miR-508
rs12657182	chr5:124000922	ZNF608:miR-553
rs56071397	chr5:126233486	MARCH3:miR-562
rs17164927	chr5:126821842	MEGF10:miR-452
rs3087889	chr5:127552843	SLC12A2:miR-186
rs12520897	chr5:129550171	CSS3:miR-657
rs3211171	chr5:130756160	CDC42SE2:miR-532
rs11557375	chr5:131317645	ACSL6:miR-559
rs11557375	chr5:131317645	ACSL6:miR-577
rs11557375	chr5:131317645	ACSL6:miR-142-5p
rs847	chr5:132024568	IL13:miR-381
rs42403	chr5:132121893	SEPT8:miR-138
rs2286012	chr5:132122196	SEPT8:miR-135a
rs2286012	chr5:132122196	SEPT8:miR-135b
rs14355	chr5:132468184	HSPA4:miR-106a
rs14355	chr5:132468184	HSPA4:miR-106b
rs14355	chr5:132468184	HSPA4:miR-17-5p
rs14355	chr5:132468184	HSPA4:miR-20a
rs14355	chr5:132468184	HSPA4:miR-20b
rs14355	chr5:132468184	HSPA4:miR-580
rs34654406	chr5:133521155	SKP1A:miR-769-3p
rs3209711	chr5:133560686	PPP2CA:miR-659
rs34880639	chr5:133755105	UBE2B:miR-643
rs62379978	chr5:133943868	PHF15:miR-21
rs62379978	chr5:133943868	PHF15:miR-28
rs329327	chr5:133946805	PHF15:miR-141
rs329327	chr5:133946805	PHF15:miR-200a
rs329327	chr5:133946805	PHF15:miR-200b
rs329327	chr5:133946805	PHF15:miR-200c
rs10479083	chr5:133970377	SAR1B:miR-223
rs6884245	chr5:134090940	SEC24A:miR-22
rs1049478	chr5:134698296	H2AFY:miR-559
rs1049478	chr5:134698296	H2AFY:miR-577
rs3813315	chr5:136982760	KLHL3:miR-32
rs11739162	chr5:137116133	HNRPA0:miR-302c*
rs10070991	chr5:137304031	PKD2L2:miR-581
rs10070991	chr5:137304031	PKD2L2:miR-422a
rs3798151	chr5:137799396	JMJD1B:miR-565
rs3087736	chr5:137871320	ETF1:miR-106a
rs3087736	chr5:137871320	ETF1:miR-106b
rs3087736	chr5:137871320	ETF1:miR-17-5p
rs3087736	chr5:137871320	ETF1:miR-20a
rs3087736	chr5:137871320	ETF1:miR-20b
rs3087736	chr5:137871320	ETF1:miR-519d
rs3087736	chr5:137871320	ETF1:miR-302a
rs3087736	chr5:137871320	ETF1:miR-302b
rs3087736	chr5:137871320	ETF1:miR-302c

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3087736	chr5:137871320	ETF1:miR-302d
rs3087736	chr5:137871320	ETF1:miR-373
rs3087736	chr5:137871320	ETF1:miR-519e
rs3087736	chr5:137871320	ETF1:miR-520a
rs3087736	chr5:137871320	ETF1:miR-520b
rs3087736	chr5:137871320	ETF1:miR-520c
rs3087736	chr5:137871320	ETF1:miR-520d
rs3087736	chr5:137871320	ETF1:miR-520e
rs3087736	chr5:137871320	ETF1:miR-526b*
rs3087736	chr5:137871320	ETF1:miR-515-3p
rs3087736	chr5:137871320	ETF1:miR-520f
rs17031	chr5:138298441	CTNNA1:miR-141
rs17031	chr5:138298441	CTNNA1:miR-200a
rs55932698	chr5:138693095	MATR3:miR-653
rs1801867	chr5:138693761	MATR3:miR-521
rs5871723	chr5:139476360	PURA:miR-593
rs5871723	chr5:139476360	PURA:miR-768-5p
rs12656477	chr5:139693764	HBEGF:miR-640
rs12656477	chr5:139693764	HBEGF:miR-520a*
rs12656477	chr5:139693764	HBEGF:miR-525
rs155360	chr5:140289200	PCDHAC1:miR-659
rs60692195	chr5:140371375	PCDHA10:miR-577
rs14615	chr5:140372001	PCDHA8:miR-302c*
rs55798800	chr5:140875669	DIAPH1:miR-186
rs14251	chr5:140999294	FCHSD1:miR-205
rs4995946	chr5:141212960	PCDH1:miR-324-5p
rs10058887	chr5:142582753	ARHGAP26:miR-568
rs10482716	chr5:142637770	NR3C1:miR-19a
rs10482716	chr5:142637770	NR3C1:miR-19b
rs11552272	chr5:142637822	NR3C1:miR-559
rs11552272	chr5:142637822	NR3C1:miR-577
rs10482714	chr5:142638097	NR3C1:miR-521
rs61753507	chr5:142639265	NR3C1:miR-561
rs61753504	chr5:142640471	NR3C1:miR-542-3p
rs1803634	chr5:142641231	NR3C1:miR-378
rs12109284	chr5:143519978	YIPF5:miR-648
rs1802025	chr5:145871061	TCERG1:miR-140
rs1802024	chr5:145871085	TCERG1:miR-142-5p
rs1049378	chr5:146750676	DPYSL3:miR-498
rs1049378	chr5:146750676	DPYSL3:miR-607
rs36032656	chr5:147496936	SPINK5:miR-376a
rs36032656	chr5:147496936	SPINK5:miR-376b
rs36032656	chr5:147496936	SPINK5:miR-513
rs4987255	chr5:148188290	ADRB2:miR-365
rs57308456	chr5:148728651	MGC3265:miR-559
rs8221	chr5:148855800	CSNK1A1:miR-559
rs8221	chr5:148855800	CSNK1A1:miR-577
rs3828609	chr5:149413056	CSF1R:miR-512-3p
rs15645	chr5:149579417	CAMK2A:miR-653
rs61217791	chr5:149582417	CAMK2A:miR-184
rs55954668	chr5:149914114	NDST1:miR-656
rs36071594	chr5:149917689	NDST1:miR-633

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs35295884	chr5:150627581	GM2A:miR-542-3p
rs3734045	chr5:150864065	FAT2:miR-34b
rs62379673	chr5:150864488	FAT2:miR-106a
rs62379673	chr5:150864488	FAT2:miR-106b
rs62379673	chr5:150864488	FAT2:miR-17-5p
rs62379673	chr5:150864488	FAT2:miR-20a
rs62379673	chr5:150864488	FAT2:miR-20b
rs62379673	chr5:150864488	FAT2:miR-519d
rs62379673	chr5:150864488	FAT2:miR-302a
rs62379673	chr5:150864488	FAT2:miR-302b
rs62379673	chr5:150864488	FAT2:miR-302c
rs62379673	chr5:150864488	FAT2:miR-302d
rs62379673	chr5:150864488	FAT2:miR-373
rs62379673	chr5:150864488	FAT2:miR-519e
rs62379673	chr5:150864488	FAT2:miR-520a
rs62379673	chr5:150864488	FAT2:miR-520b
rs62379673	chr5:150864488	FAT2:miR-520c
rs62379673	chr5:150864488	FAT2:miR-520d
rs62379673	chr5:150864488	FAT2:miR-520e
rs62379673	chr5:150864488	FAT2:miR-526b*
rs1059829	chr5:151022222	SPARC:miR-768-5p
rs707178	chr5:153351598	C5orf3:miR-548d
rs707178	chr5:153351598	C5orf3:miR-520d*
rs11551505	chr5:154174613	LARP1:miR-136
rs33954943	chr5:156752794	CYFIP2:miR-579
rs57848878	chr5:156834181	ICHTHYIN:miR-181b
rs57848878	chr5:156834181	ICHTHYIN:miR-181d
rs3836882	chr5:157145968	ENTH:miR-410
rs12284	chr5:157146765	ENTH:miR-548a
rs1276707	chr5:158058063	EBF:miR-369-3p
rs1276707	chr5:158058063	EBF:miR-524*
rs11555239	chr5:158517068	FLJ31951:miR-559
rs11555239	chr5:158517068	FLJ31951:miR-577
rs11555239	chr5:158517068	FLJ31951:miR-142-5p
rs11555239	chr5:158517068	FLJ31951:miR-559
rs11555238	chr5:158517073	FLJ31951:miR-142-5p
rs11555238	chr5:158517073	FLJ31951:miR-559
rs60279557	chr5:160649397	GABRB2:miR-644
rs55798116	chr5:160649399	GABRB2:miR-644
rs153294	chr5:160650248	GABRB2:miR-493-5p
rs34906738	chr5:160653455	GABRB2:miR-581
rs998754	chr5:161258512	GABRA1:miR-153
rs998754	chr5:161258512	GABRA1:miR-496
rs7443935	chr5:167622845	ODZ2:miR-196a
rs7443935	chr5:167622845	ODZ2:miR-196b
rs7443935	chr5:167622845	ODZ2:let-7a
rs7443935	chr5:167622845	ODZ2:let-7b
rs7443935	chr5:167622845	ODZ2:let-7c
rs7443935	chr5:167622845	ODZ2:let-7d
rs7443935	chr5:167622845	ODZ2:let-7f
rs7443935	chr5:167622845	ODZ2:let-7g
rs7443935	chr5:167622845	ODZ2:let-7i

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs7443935	chr5:167622845	ODZ2:miR-98
rs2305737	chr5:167878839	RARS:miR-508
rs34975648	chr5:170095676	KCNIP1:miR-658
rs6859650	chr5:170770263	NPM1:miR-33
rs6859650	chr5:170770263	NPM1:miR-544
rs34486870	chr5:171221591	FBXW11:miR-623
rs35951290	chr5:171693162	SH3PXD2B:miR-583
rs35951290	chr5:171693162	SH3PXD2B:miR-185
rs35661076	chr5:171696199	SH3PXD2B:miR-96
rs34412722	chr5:172127738	DUSP1:miR-568
rs11539173	chr5:172394447	ATP6V0E:miR-539
rs15180	chr5:172394458	ATP6V0E:miR-583
rs4849	chr5:172394490	ATP6V0E:miR-625
rs4849	chr5:172394490	ATP6V0E:miR-765
rs8367	chr5:172394497	ATP6V0E:miR-587
rs4857	chr5:172394498	ATP6V0E:miR-587
rs60728179	chr5:172394499	ATP6V0E:miR-587
rs36011372	chr5:172495096	LOC153222:miR-330
rs11749456	chr5:175869619	UBXD8:miR-561
rs11749456	chr5:175869619	UBXD8:miR-186
rs1128287	chr5:176661064	RAB24:miR-153
rs1049880	chr5:176955648	TMED9:miR-499
rs13972	chr5:177570515	HNRPAB:miR-604
rs36119714	chr5:178973967	HNRPH1:miR-561
rs1802906	chr5:178973977	HNRPH1:miR-455
rs3205295	chr5:179089818	CANX:miR-141
rs3205295	chr5:179089818	CANX:miR-200a
rs3205295	chr5:179089818	CANX:miR-429
rs14801	chr5:179196851	SQSTM1:miR-372
rs14801	chr5:179196851	SQSTM1:miR-93
rs14801	chr5:179196851	SQSTM1:miR-106a
rs14801	chr5:179196851	SQSTM1:miR-106b
rs14801	chr5:179196851	SQSTM1:miR-17-5p
rs14801	chr5:179196851	SQSTM1:miR-20a
rs14801	chr5:179196851	SQSTM1:miR-20b
rs10169	chr5:179315149	RNF130:miR-559
rs10169	chr5:179315149	RNF130:miR-577
rs10169	chr5:179315149	RNF130:miR-203
rs14736	chr5:179595512	MAPK9:miR-655
rs1803841	chr5:179595622	MAPK9:miR-520g
rs1803841	chr5:179595622	MAPK9:miR-520h
rs1803841	chr5:179595622	MAPK9:miR-106a
rs1803841	chr5:179595622	MAPK9:miR-106b
rs1803841	chr5:179595622	MAPK9:miR-17-5p
rs1803841	chr5:179595622	MAPK9:miR-20a
rs1803841	chr5:179595622	MAPK9:miR-20b
rs59738929	chr5:179660934	GFPT2:miR-133a
rs59738929	chr5:179660934	GFPT2:miR-133b
rs35324011	chr5:179934027	CNOT6:miR-19a
rs35324011	chr5:179934027	CNOT6:miR-19b
rs57315483	chr5:179935027	CNOT6:miR-186
rs34524755	chr5:179935455	CNOT6:miR-382

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs17080395	chr5:179937869	CNOT6:miR-202
rs9387	chr5:180150232	MGAT1:miR-548c
rs9918205	chr5:180343177	LOC646227:miR-557
rs1064329	chr6:1259884	FOXQ1:miR-577
rs1064329	chr6:1259884	FOXQ1:miR-559
rs5873799	chr6:1340805	FOXF2:miR-186
rs62390613	chr6:1557650	FOXC1:miR-516-5p
rs62390613	chr6:1557650	TRIM39:miR-134
rs34953829	chr6:4008180	PRPF4B:miR-30a-5p
rs34953829	chr6:4008180	PRPF4B:miR-30b
rs34953829	chr6:4008180	PRPF4B:miR-30c
rs34953829	chr6:4008180	PRPF4B:miR-30d
rs34953829	chr6:4008180	PRPF4B:miR-30e-5p
rs593291	chr6:4013715	C6orf146:miR-527
rs55682129	chr6:4899709	CDYL:miR-365
rs28618179	chr6:5944107	NRN1:miR-376a
rs28618179	chr6:5944107	NRN1:miR-376b
rs28618179	chr6:5944107	NRN1:miR-513
rs34270368	chr6:6090235	F13A1:miR-130a
rs34270368	chr6:6090235	F13A1:miR-130b
rs34270368	chr6:6090235	F13A1:miR-301
rs34270368	chr6:6090235	F13A1:miR-454-3p
rs41302873	chr6:7232927	SSR1:miR-494
rs41302873	chr6:7232927	SSR1:miR-641
rs2748376	chr6:7960128	MUTED:miR-508
rs16893358	chr6:10505012	TFAP2A:miR-586
rs2857061	chr6:10505112	TFAP2A:miR-625
rs2763168	chr6:10505113	TFAP2A:miR-625
rs2857060	chr6:10505546	TFAP2A:miR-142-5p
rs2857060	chr6:10505546	TFAP2A:miR-559
rs2857059	chr6:10505548	TFAP2A:miR-559
rs1045385	chr6:10506102	TFAP2A:miR-768-3p
rs1045385	chr6:10506102	TFAP2A:miR-101
rs8523	chr6:11089039	ELOVL2:miR-583
rs8523	chr6:11089039	ELOVL2:miR-522
rs843973	chr6:11686222	LOC100113407:miR-581
rs843973	chr6:11686222	LOC100113407:miR-578
rs12191269	chr6:11687764	LOC100113407:miR-384
rs35291024	chr6:11691411	LOC100113407:miR-448
rs35188801	chr6:12272937	HIVEP1:miR-380-3p
rs41267692	chr6:14087901	RNF182:miR-600
rs41267692	chr6:14087901	RNF182:miR-548b
rs41267692	chr6:14087901	RNF182:miR-548c
rs11554819	chr6:15629247	JARID2:miR-562
rs11554819	chr6:15629247	JARID2:miR-142-5p
rs12202423	chr6:16256143	MYLIP:miR-154
rs2205794	chr6:16256155	MYLIP:miR-500
rs11552211	chr6:16256341	MYLIP:miR-432
rs1049189	chr6:16410068	ATXN1:miR-335
rs56071504	chr6:16413482	ATXN1:miR-769-3p
rs1061550	chr6:17401049	RBM24:miR-552
rs1802808	chr6:19947788	ID4:miR-589



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3798340	chr6:19948651	ID4:miR-768-5p
rs56364223	chr6:20598705	E2F3:miR-542-3p
rs35225726	chr6:20600933	E2F3:miR-499
rs11556729	chr6:21706703	SOX4:miR-629
rs35505782	chr6:24813281	C6orf62:miR-185
rs10946721	chr6:24813290	C6orf62:miR-548b
rs10946721	chr6:24813290	C6orf62:miR-548c
rs59735047	chr6:24813293	C6orf62:miR-548b
rs59735047	chr6:24813293	C6orf62:miR-548c
rs3752420	chr6:26135114	HIST1H4B:miR-125a
rs3752420	chr6:26135114	HIST1H4B:miR-125b
rs41266799	chr6:26266814	HIST1H2BD:miR-644
rs34270246	chr6:26742821	ZNF322A:miR-766
rs34270246	chr6:26742821	ZNF322A:miR-216
rs13214818	chr6:33528265	SYNGAP1:miR-594
rs34678276	chr6:34097833	GRM4:miR-513
rs35264293	chr6:34364302	NUDT3:miR-329
rs34206704	chr6:35325306	SCUBE3:miR-576
rs41270060	chr6:35325587	SCUBE3:miR-519a
rs41270060	chr6:35325587	SCUBE3:miR-519b
rs41270060	chr6:35325587	SCUBE3:miR-519c
rs1051950	chr6:35573788	TULP1:miR-134
rs3748045	chr6:36306555	BRPF3:miR-214
rs1046578	chr6:37003813	C6orf89:miR-96
rs34646865	chr6:37249995	PIM1:miR-769-3p
rs60693654	chr6:37407079	TBC1D22B:miR-608
rs3734329	chr6:37407091	TBC1D22B:miR-520a*
rs3734329	chr6:37407091	TBC1D22B:miR-525
rs3734329	chr6:37407091	TBC1D22B:miR-198
rs57137575	chr6:37407402	TBC1D22B:miR-565
rs1043630	chr6:38230341	ZFAND3:miR-185
rs34732653	chr6:43087290	PPP2R5D:miR-196a
rs34732653	chr6:43087290	PPP2R5D:miR-196b
rs41274908	chr6:43087299	PPP2R5D:miR-452*
rs1054384	chr6:43087976	PPP2R5D:miR-491
rs11552141	chr6:43237406	PTK7:miR-503
rs41275946	chr6:43362801	TTBK1:miR-452
rs13211310	chr6:43362806	TTBK1:miR-452
rs2841654	chr6:43363071	TTBK1:miR-484
rs9462887	chr6:43411983	ZNF318:miR-452*
rs9462887	chr6:43411983	ZNF318:miR-216
rs7692	chr6:43411985	ZNF318:miR-452*
rs7692	chr6:43411985	ZNF318:miR-216
rs6911354	chr6:43412050	ZNF318:miR-381
rs1063511	chr6:44329542	HSP90AB1:miR-559
rs590091	chr6:45623835	RUNX2:miR-570
rs7451304	chr6:45625609	RUNX2:miR-302a
rs7451304	chr6:45625609	RUNX2:miR-302b
rs7451304	chr6:45625609	RUNX2:miR-302c
rs7451304	chr6:45625609	RUNX2:miR-302d
rs7451304	chr6:45625609	RUNX2:miR-373
rs7451304	chr6:45625609	RUNX2:miR-520a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs7451304	chr6:45625609	RUNX2:miR-520b
rs7451304	chr6:45625609	RUNX2:miR-520c
rs7451304	chr6:45625609	RUNX2:miR-520d
rs7451304	chr6:45625609	RUNX2:miR-520e
rs7451304	chr6:45625609	RUNX2:miR-526b*
rs35633395	chr6:45626509	RUNX2:miR-580
rs2799354	chr6:46298336	DSCR1L1:miR-26a
rs2799354	chr6:46298336	DSCR1L1:miR-26b
rs6149561	chr6:46753726	SLC25A27:miR-380-3p
rs35023081	chr6:46753727	SLC25A27:miR-380-3p
rs36041587	chr6:47702213	CD2AP:miR-181b
rs36041587	chr6:47702213	CD2AP:miR-181d
rs7769978	chr6:50923188	TFAP2B:miR-539
rs62405438	chr6:50923273	TFAP2B:miR-132
rs62405438	chr6:50923273	TFAP2B:miR-212
rs2784198	chr6:51588445	PKHD1:miR-452
rs3207469	chr6:53240272	ELOVL5:miR-203
rs41273876	chr6:53241807	ELOVL5:miR-569
rs17885545	chr6:53471206	GCLC:miR-148b
rs17885545	chr6:53471206	GCLC:miR-152
rs6920761	chr6:53623002	KLHL31:miR-573
rs41271848	chr6:56431120	DST:miR-521
rs41271848	chr6:56431120	DST:miR-523
rs2840262	chr6:57163074	RAB23:miR-518b
rs2840262	chr6:57163074	RAB23:miR-518c
rs2840262	chr6:57163074	RAB23:miR-518d
rs9449511	chr6:62448114	KHDRBS2:miR-524*
rs2758267	chr6:64348485	PTP4A1:miR-768-5p
rs2758267	chr6:64348485	PTP4A1:miR-522
rs10561236	chr6:70975710	COL19A1:miR-494
rs10561236	chr6:70975710	COL19A1:miR-641
rs13820	chr6:74594427	CD109:miR-577
rs58540334	chr6:75850957	COL12A1:miR-410
rs15616	chr6:76021362	TMEM30A:miR-656
rs3215618	chr6:76484543	SENP6:miR-31
rs36132527	chr6:79707051	PHIP:miR-650
rs1394282	chr6:80251929	C6orf152:miR-96
rs60499238	chr6:80681363	ELOVL4:miR-32
rs60499238	chr6:80681363	ELOVL4:miR-603
rs55808788	chr6:80681493	ELOVL4:miR-190
rs41270555	chr6:80682435	ELOVL4:miR-634
rs1535421	chr6:80808825	TTK:miR-144
rs7453801	chr6:82512567	FAM46A:miR-580
rs7453801	chr6:82512567	FAM46A:miR-106a
rs7453801	chr6:82512567	FAM46A:miR-106b
rs7453801	chr6:82512567	FAM46A:miR-17-5p
rs7453801	chr6:82512567	FAM46A:miR-20a
rs7453801	chr6:82512567	FAM46A:miR-20b
rs41270569	chr6:82513302	FAM46A:miR-448
rs13213244	chr6:84726670	CYB5R4:miR-144
rs7738931	chr6:88906444	CNR1:miR-33
rs34654840	chr6:89851089	PNRC1:miR-605

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs35888018	chr6:89864133	SRrp35:miR-499
rs1045972	chr6:89930894	ACY1L2:miR-578
rs1045974	chr6:89930907	ACY1L2:miR-132
rs1045974	chr6:89930907	ACY1L2:miR-212
rs1045988	chr6:89931003	ACY1L2:miR-488
rs1045992	chr6:89931016	ACY1L2:miR-499
rs1045995	chr6:89931031	ACY1L2:miR-656
rs1045999	chr6:89931053	ACY1L2:miR-584
rs1046001	chr6:89931074	ACY1L2:miR-384
rs59902144	chr6:90402184	LYRM2:miR-515-3p
rs59902144	chr6:90402184	LYRM2:miR-432
rs58265329	chr6:90693358	BACH2:miR-582
rs17513276	chr6:90694146	BACH2:miR-586
rs3798790	chr6:90694225	BACH2:miR-142-3p
rs62417360	chr6:90694321	BACH2:miR-190
rs58132930	chr6:94009409	EPHA7:miR-653
rs41273625	chr6:94009572	EPHA7:miR-561
rs34697788	chr6:96768343	FUT9:miR-520d*
rs11966295	chr6:97695162	KLHL32:miR-656
rs11966295	chr6:97695162	KLHL32:miR-23a
rs11966295	chr6:97695162	KLHL32:miR-23b
rs35800750	chr6:100170095	PRDM13:miR-660
rs9486035	chr6:105633870	LIN28B:miR-769-3p
rs10545196	chr6:105712583	POPDC3:miR-559
rs2308162	chr6:105712586	POPDC3:miR-559
rs35800305	chr6:106740757	ATG5:miR-365
rs41292442	chr6:107582205	PDSS2:miR-423
rs11363908	chr6:107582298	PDSS2:miR-595
rs14502	chr6:108087313	FLJ10159:miR-148a
rs3177228	chr6:108639419	SNX3:miR-361
rs3177228	chr6:108639419	SNX3:miR-519a
rs3177228	chr6:108639419	SNX3:miR-519b
rs3177228	chr6:108639419	SNX3:miR-519c
rs15321	chr6:108639484	SNX3:miR-568
rs531393	chr6:108639526	SNX3:miR-205
rs59053855	chr6:109108071	FOXO3:miR-335
rs1268173	chr6:109112606	FOXO3:miR-584
rs1803962	chr6:109794442	CD164:miR-223
rs1803964	chr6:109794989	CD164:miR-374
rs1803964	chr6:109794989	CD164:miR-369-3p
rs1803964	chr6:109794989	CD164:miR-655
rs61570809	chr6:111038386	CDC2L6:miR-380-3p
rs4269406	chr6:111038471	CDC2L6:miR-653
rs1061388	chr6:111726987	REV3L:miR-522
rs465646	chr6:111727451	REV3L:miR-375
rs55962943	chr6:111727598	REV3L:miR-520f
rs17511602	chr6:111727619	REV3L:miR-30a-5p
rs17511602	chr6:111727619	REV3L:miR-30b
rs17511602	chr6:111727619	REV3L:miR-30c
rs17511602	chr6:111727619	REV3L:miR-30d
rs17511602	chr6:111727619	REV3L:miR-30e-5p
rs41311410	chr6:112089485	FYN:miR-569

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3177143	chr6:112528774	LOC619208:miR-371
rs1063446	chr6:114288756	MARCKS:miR-648
rs12307	chr6:114288801	MARCKS:miR-563
rs45460602	chr6:114289225	MARCKS:miR-655
rs28558559	chr6:114290941	MARCKS:miR-410
rs11391	chr6:114368708	HDAC2:miR-142-5p
rs2105171	chr6:116369550	FRK:miR-450
rs41289928	chr6:116866042	DSE:miR-136
rs11544123	chr6:117988335	GOPC:miR-105
rs11544123	chr6:117988335	GOPC:miR-429
rs41305292	chr6:117997545	DCBLD1:miR-594
rs1052258	chr6:118134939	C6orf68:miR-30a-5p
rs1052258	chr6:118134939	C6orf68:miR-30b
rs1052258	chr6:118134939	C6orf68:miR-30c
rs1052258	chr6:118134939	C6orf68:miR-30d
rs1052258	chr6:118134939	C6orf68:miR-30e-5p
rs1053139	chr6:118136462	C6orf68:miR-597
rs45541341	chr6:118137352	C6orf68:miR-361
rs34758199	chr6:118745384	SLC35F1:miR-579
rs3756943	chr6:119542615	MAN1A1:miR-361
rs45494491	chr6:122795415	HSF2:miR-19a
rs45494491	chr6:122795415	HSF2:miR-19b
rs1132643	chr6:123088715	PKIB:miR-579
rs17774884	chr6:125187332	TCBA1:miR-15a
rs17774884	chr6:125187332	TCBA1:miR-15b
rs17774884	chr6:125187332	TCBA1:miR-16
rs17774884	chr6:125187332	TCBA1:miR-195
rs17774884	chr6:125187332	TCBA1:miR-497
rs1268078	chr6:126123418	HEY2:miR-15a
rs1268078	chr6:126123418	HEY2:miR-15b
rs1268078	chr6:126123418	HEY2:miR-16
rs1268078	chr6:126123418	HEY2:miR-195
rs1268078	chr6:126123418	HEY2:miR-497
rs1268078	chr6:126123418	HEY2:miR-142-5p
rs3839542	chr6:126123960	HEY2:miR-433
rs41285254	chr6:126292232	NCOA7:miR-568
rs1801763	chr6:127806636	KIAA0408:miR-500
rs41285272	chr6:127835982	C6orf174:miR-511
rs11544475	chr6:128331718	PTPRK:miR-613
rs13201989	chr6:128332789	PTPRK:miR-568
rs12965	chr6:131202437	EPB41L2:miR-147
rs6900737	chr6:131203036	EPB41L2:miR-129
rs6900737	chr6:131203036	EPB41L2:miR-194
rs3777499	chr6:131645136	AKAP7:miR-662
rs7746083	chr6:131645346	AKAP7:miR-627
rs7746083	chr6:131645346	AKAP7:miR-661
rs36028195	chr6:134349945	TBPL1:miR-145
rs35776966	chr6:134350418	SLC2A12:miR-9
rs55984236	chr6:134532307	SGK:miR-1
rs55984236	chr6:134532307	SGK:miR-206
rs7754021	chr6:134532507	SGK:miR-187
rs7757811	chr6:135324028	HBS1L:miR-802

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs10608076	chr6:136555172	PDE7B:miR-633
rs6931460	chr6:136555234	PDE7B:miR-198
rs6914212	chr6:136555801	PDE7B:miR-1
rs6914212	chr6:136555801	PDE7B:miR-206
rs62431281	chr6:136623806	BCLAF1:miR-653
rs58541073	chr6:136706683	MAP7:miR-186
rs11138	chr6:136920127	MAP3K5:miR-199a*
rs57130404	chr6:139603297	TXLNB:miR-626
rs4177	chr6:139735276	CITED2:miR-559
rs4177	chr6:139735276	CITED2:miR-577
rs4177	chr6:139735276	CITED2:miR-548c
rs58995027	chr6:139735280	CITED2:miR-548c
rs7763870	chr6:139735439	CITED2:miR-145
rs3736731	chr6:142581537	C6orf55:miR-620
rs58500519	chr6:143115827	HIVEP2:miR-606
rs17072450	chr6:143702808	AIG1:miR-582
rs1138410	chr6:143788776	DEADC1:miR-302c*
rs41285017	chr6:143852185	PEX3:miR-143
rs41285017	chr6:143852185	PEX3:miR-573
rs10617218	chr6:143852783	PEX3:miR-142-5p
rs10617218	chr6:143852783	PEX3:miR-381
rs11969315	chr6:144186615	PHACTR2:miR-494
rs1804733	chr6:144303769	PLAGL1:miR-181a
rs1804733	chr6:144303769	PLAGL1:miR-181c
rs11546879	chr6:145214198	UTRN:miR-578
rs362820	chr6:146798995	GRM1:miR-568
rs41285867	chr6:146800295	GRM1:miR-328
rs1034245	chr6:147748484	STXBP5:miR-575
rs237023	chr6:149763733	SUMO4:miR-494
rs237023	chr6:149763733	SUMO4:miR-641
rs35408612	chr6:149772983	MAP3K7IP2:miR-522
rs34923937	chr6:149773138	MAP3K7IP2:miR-148b
rs34923937	chr6:149773138	MAP3K7IP2:miR-152
rs7896	chr6:149773169	MAP3K7IP2:miR-609
rs35742973	chr6:149773259	MAP3K7IP2:miR-25
rs35742973	chr6:149773259	MAP3K7IP2:miR-367
rs35742973	chr6:149773259	MAP3K7IP2:miR-92
rs35742973	chr6:149773259	MAP3K7IP2:miR-92b
rs57481309	chr6:150173773	PCMT1:miR-548d
rs4552	chr6:150174012	PCMT1:miR-584
rs1061987	chr6:151727845	ZBTB2:miR-573
rs9341070	chr6:152461890	ESR1:miR-122a
rs56254212	chr6:152463977	ESR1:miR-524*
rs9341074	chr6:152464148	ESR1:miR-660
rs9341074	chr6:152464148	ESR1:miR-192
rs9341074	chr6:152464148	ESR1:miR-215
rs9341074	chr6:152464148	ESR1:miR-193b
rs3798757	chr6:152465936	ESR1:miR-586
rs3798757	chr6:152465936	ESR1:miR-648
rs11558463	chr6:152484616	SYNE1:miR-181a
rs11558463	chr6:152484616	SYNE1:miR-181c
rs3940	chr6:155620448	TIAM2:miR-196a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3940	chr6:155620448	TIAM2:miR-196b
rs41268579	chr6:158285541	SNX9:miR-302a
rs41268579	chr6:158285541	SNX9:miR-302b
rs41268579	chr6:158285541	SNX9:miR-302c
rs41268579	chr6:158285541	SNX9:miR-302d
rs41268579	chr6:158285541	SNX9:miR-373
rs41268579	chr6:158285541	SNX9:miR-520a
rs41268579	chr6:158285541	SNX9:miR-520b
rs41268579	chr6:158285541	SNX9:miR-520c
rs41268579	chr6:158285541	SNX9:miR-520d
rs41268579	chr6:158285541	SNX9:miR-520e
rs41268579	chr6:158285541	SNX9:miR-526b*
rs41268579	chr6:158285541	SNX9:miR-106a
rs41268579	chr6:158285541	SNX9:miR-106b
rs41268579	chr6:158285541	SNX9:miR-17-5p
rs41268579	chr6:158285541	SNX9:miR-20a
rs41268579	chr6:158285541	SNX9:miR-20b
rs11962969	chr6:160090154	WTAP:miR-154
rs14531	chr6:160447498	IGF2R:miR-185
rs56157187	chr6:163656256	PACRG:miR-568
rs41268567	chr6:163656260	PACRG:miR-568
rs1044933	chr6:163912453	QKI:miR-559
rs17592297	chr6:163912634	QKI:miR-148a
rs4286788	chr6:169847650	C6orf120:miR-299-3p
rs11557645	chr6:170723647	TBP:miR-625
rs11557645	chr6:170723647	TBP:miR-491
rs55985680	chr6:170723780	TBP:miR-431
rs55985680	chr6:170723780	TBP:miR-630
rs14782	chr7:880916	UNC84A:miR-559
rs3183457	chr7:880930	UNC84A:miR-431
rs1044528	chr7:1549127	MGC9712:miR-197
rs1044529	chr7:1549130	MGC9712:miR-197
rs11546922	chr7:5533463	ACTB:miR-559
rs11546922	chr7:5533463	ACTB:miR-577
rs3206243	chr7:5533472	ACTB:miR-653
rs3206243	chr7:5533472	ACTB:miR-559
rs3210647	chr7:5533523	ACTB:miR-557
rs11546923	chr7:5533536	ACTB:miR-155
rs11546918	chr7:5533670	ACTB:miR-570
rs11546919	chr7:5533673	ACTB:miR-570
rs11546941	chr7:5533682	ACTB:miR-648
rs13447411	chr7:5533695	ACTB:miR-588
rs13447411	chr7:5533695	ACTB:miR-221
rs11546911	chr7:5533704	ACTB:miR-23a
rs11546911	chr7:5533704	ACTB:miR-23b
rs1802568	chr7:5612718	FSCN1:miR-577
rs1802568	chr7:5612718	FSCN1:miR-559
rs9401	chr7:5626311	TRIAD3:miR-361
rs6970518	chr7:6169158	PSCD3:miR-637
rs11354120	chr7:6469081	KDELRL2:miR-548c
rs10259049	chr7:7250055	C1GALT1:miR-521
rs14673	chr7:8092937	GLCC11:miR-203

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs13236609	chr7:12239403	TMEM106B:miR-577
rs61046115	chr7:12242201	TMEM106B:miR-613
rs1058268	chr7:12695794	ARL4A:miR-106a
rs1058268	chr7:12695794	ARL4A:miR-106b
rs1058268	chr7:12695794	ARL4A:miR-17-5p
rs1058268	chr7:12695794	ARL4A:miR-20a
rs1058268	chr7:12695794	ARL4A:miR-20b
rs34958926	chr7:12696106	ARL4A:miR-186
rs3735343	chr7:13900883	ETV1:miR-583
rs28627933	chr7:13901833	ETV1:miR-26a
rs28627933	chr7:13901833	ETV1:miR-26b
rs17167929	chr7:14154194	DGKB:miR-516-3p
rs17168900	chr7:15618124	MEOX2:miR-189
rs1050291	chr7:15618129	MEOX2:miR-655
rs1131061	chr7:15618265	MEOX2:miR-335
rs1131061	chr7:15618265	MEOX2:miR-559
rs6979189	chr7:16467979	SOSTDC1:miR-186
rs14556	chr7:16712557	BZW2:miR-101
rs1043232	chr7:16712573	BZW2:miR-608
rs2691583	chr7:17798331	SNX13:miR-25
rs2691583	chr7:17798331	SNX13:miR-367
rs2691583	chr7:17798331	SNX13:miR-92
rs2691583	chr7:17798331	SNX13:miR-92b
rs2691583	chr7:17798331	SNX13:miR-191*
rs35082525	chr7:17798781	SNX13:miR-659
rs60675760	chr7:18673898	HDAC9:miR-515-3p
rs60675760	chr7:18673898	HDAC9:miR-376a
rs60675760	chr7:18673898	HDAC9:miR-376b
rs706086	chr7:18674367	HDAC9:miR-299-3p
rs706086	chr7:18674367	HDAC9:miR-147
rs35259071	chr7:19122056	TWIST1:miR-361
rs28398883	chr7:20418968	ITGB8:miR-623
rs1045957	chr7:20421339	ITGB8:miR-19a
rs1045957	chr7:20421339	ITGB8:miR-19b
rs35578769	chr7:20788496	SP8:miR-19a
rs35578769	chr7:20788496	SP8:miR-19b
rs35130029	chr7:20788988	SP8:miR-542-3p
rs62453408	chr7:20789501	SP8:miR-10a
rs62453408	chr7:20789501	SP8:miR-10b
rs59521022	chr7:22124495	RAPGEF5:miR-186
rs2069851	chr7:22737829	IL6:miR-574
rs34846708	chr7:23317296	IGF2BP3:miR-562
rs2268743	chr7:23317565	IGF2BP3:miR-548a
rs2268741	chr7:23318082	IGF2BP3:miR-578
rs58989925	chr7:23511636	TRA2A:miR-216
rs59626159	chr7:23650502	LOC90693:miR-203
rs13240851	chr7:25142084	C7orf31:miR-485-5p
rs1049938	chr7:26196697	HNRNPA2B1:miR-583
rs1049938	chr7:26196697	HNRNPA2B1:miR-7
rs3210104	chr7:26197215	HNRNPA2B1:miR-573
rs3210104	chr7:26197215	HNRNPA2B1:miR-143
rs3210101	chr7:26197219	HNRNPA2B1:miR-518a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3210101	chr7:26197219	HNRNPA2B1:miR-518e
rs3210101	chr7:26197219	HNRNPA2B1:miR-518f
rs3210100	chr7:26197220	HNRNPA2B1:miR-518a
rs3210100	chr7:26197220	HNRNPA2B1:miR-518e
rs3210100	chr7:26197220	HNRNPA2B1:miR-518f
rs1049851	chr7:26198049	HNRNPA2B1:miR-521
rs1049851	chr7:26198049	HNRNPA2B1:miR-523
rs11557711	chr7:26198127	HNRNPA2B1:miR-548c
rs9807	chr7:26198130	HNRNPA2B1:miR-548c
rs28407029	chr7:26219491	CBX3:miR-1
rs28407029	chr7:26219491	CBX3:miR-206
rs17154295	chr7:26673327	SCAP2:miR-31
rs17154295	chr7:26673327	SCAP2:miR-520g
rs17154295	chr7:26673327	SCAP2:miR-520h
rs17154295	chr7:26673327	SCAP2:miR-106a
rs17154295	chr7:26673327	SCAP2:miR-106b
rs17154295	chr7:26673327	SCAP2:miR-17-5p
rs17154295	chr7:26673327	SCAP2:miR-20a
rs17154295	chr7:26673327	SCAP2:miR-20b
rs7786554	chr7:27099494	HOXA1:miR-100
rs7786554	chr7:27099494	HOXA1:miR-99a
rs7786554	chr7:27099494	HOXA1:miR-99b
rs17449017	chr7:27099672	HOXA1:miR-181b
rs17449017	chr7:27099672	HOXA1:miR-181d
rs41305921	chr7:27100130	HOXA1:miR-30a-5p
rs41305921	chr7:27100130	HOXA1:miR-30b
rs41305921	chr7:27100130	HOXA1:miR-30c
rs41305921	chr7:27100130	HOXA1:miR-30d
rs41305921	chr7:27100130	HOXA1:miR-30e-5p
rs34462126	chr7:27100908	HOXA1:miR-380-5p
rs34462126	chr7:27100908	HOXA1:miR-640
rs17427553	chr7:27106569	HOXA2:miR-559
rs17427553	chr7:27106569	HOXA2:miR-577
rs35828289	chr7:27112920	HOXA3:miR-646
rs5883060	chr7:27113660	HOXA3:miR-186
rs5883060	chr7:27113660	HOXA3:miR-561
rs35000351	chr7:27113661	HOXA3:miR-186
rs35000351	chr7:27113661	HOXA3:miR-561
rs58116373	chr7:27147929	HOXA5:miR-514
rs1057512	chr7:27160128	HOXA7:miR-548c
rs36075045	chr7:27176953	HOXA10:miR-584
rs58173083	chr7:27176954	HOXA10:miR-584
rs41303372	chr7:27204229	HOXA13:miR-511
rs58967392	chr7:28826372	CREB5:miR-600
rs36036244	chr7:28829673	CREB5:miR-203
rs36036244	chr7:28829673	CREB5:miR-362
rs55751478	chr7:28959569	KIAA0644:miR-7
rs12611	chr7:29519302	CHN2:miR-577
rs3834868	chr7:29519322	CHN2:miR-578
rs34184	chr7:31713470	C7orf16:miR-513
rs10736	chr7:32493212	LSM5:miR-28
rs11550335	chr7:32493212	LSM5:miR-28



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs34489869	chr7:34159756	BMPER:miR-516-3p
rs1044428	chr7:34935339	DPY19L1:miR-330
rs62454466	chr7:35911400	SEPT7:miR-369-3p
rs2722279	chr7:37957654	EPDR1:miR-559
rs10696	chr7:38236484	STARD3NL:miR-210
rs17421361	chr7:38266314	TARP:miR-202
rs17421361	chr7:38266314	TARP:miR-380-3p
rs58654742	chr7:38390865	AMPH:miR-802
rs28464333	chr7:39714240	RALA:miR-583
rs35784619	chr7:41695151	INHBA:miR-583
rs35239129	chr7:41695362	INHBA:miR-135a
rs35239129	chr7:41695362	INHBA:miR-135b
rs1139448	chr7:41695599	INHBA:miR-205
rs1139448	chr7:41695599	INHBA:miR-579
rs2051935	chr7:41970025	GLI3:miR-320
rs59496591	chr7:43631298	STK17A:miR-96
rs56252693	chr7:44840507	H2AFV:miR-139
rs56252693	chr7:44840507	H2AFV:miR-199a*
rs9701	chr7:44885725	PURB:miR-185
rs15555	chr7:44885974	PURB:miR-383
rs15555	chr7:44885974	PURB:miR-106a
rs15555	chr7:44885974	PURB:miR-106b
rs15555	chr7:44885974	PURB:miR-17-5p
rs15555	chr7:44885974	PURB:miR-20a
rs15555	chr7:44885974	PURB:miR-20b
rs15555	chr7:44885974	PURB:miR-302a
rs15555	chr7:44885974	PURB:miR-302b
rs15555	chr7:44885974	PURB:miR-302c
rs15555	chr7:44885974	PURB:miR-302d
rs15555	chr7:44885974	PURB:miR-373
rs15555	chr7:44885974	PURB:miR-520a
rs15555	chr7:44885974	PURB:miR-520b
rs15555	chr7:44885974	PURB:miR-520c
rs15555	chr7:44885974	PURB:miR-520d
rs15555	chr7:44885974	PURB:miR-520e
rs15555	chr7:44885974	PURB:miR-526b*
rs3832522	chr7:44887769	PURB:miR-768-5p
rs5883913	chr7:44888182	PURB:miR-580
rs35838415	chr7:45729058	ADCY1:miR-132
rs35838415	chr7:45729058	ADCY1:miR-212
rs35360380	chr7:45729215	ADCY1:miR-204
rs35360380	chr7:45729215	ADCY1:miR-211
rs4209	chr7:45729217	ADCY1:miR-204
rs4209	chr7:45729217	ADCY1:miR-211
rs1128602	chr7:45729221	ADCY1:miR-204
rs1128602	chr7:45729221	ADCY1:miR-211
rs4988516	chr7:45899449	IGFBP1:miR-433
rs13310009	chr7:50479367	FIGNL1:miR-539
rs35341588	chr7:50625335	GRB10:miR-561
rs34367018	chr7:56034720	GBAS:miR-510
rs3217414	chr7:56034721	GBAS:miR-510
rs1803516	chr7:56098458	CCT6A:miR-130a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1803516	chr7:56098458	CCT6A:miR-130b
rs1803516	chr7:56098458	CCT6A:miR-301
rs1803516	chr7:56098458	CCT6A:miR-454-3p
rs10266872	chr7:64027675	ZNF273:miR-495
rs3801156	chr7:70886612	CALN1:miR-758
rs446631	chr7:72054766	POM121:miR-325
rs799219	chr7:72493178	BAZ1B:miR-185
rs799219	chr7:72493178	BAZ1B:miR-583
rs799219	chr7:72493178	BAZ1B:miR-7
rs3833681	chr7:72493608	BAZ1B:miR-186
rs62466282	chr7:72588633	BCL7B:miR-522
rs11557175	chr7:72589457	BCL7B:miR-657
rs3203011	chr7:74978262	PMS2L3:miR-204
rs3203011	chr7:74978262	PMS2L3:miR-211
rs1128035	chr7:76778061	LOC54103:miR-577
rs7794033	chr7:77423300	PHTF2:miR-299-5p
rs1138801	chr7:79685288	GNAI1:miR-19a
rs1138801	chr7:79685288	GNAI1:miR-19b
rs1138801	chr7:79685288	GNAI1:miR-568
rs11549157	chr7:82289556	PCLO:miR-577
rs11549156	chr7:82289560	PCLO:miR-577
rs7801026	chr7:83425821	SEMA3A:miR-491
rs9684	chr7:86663558	C7orf23:miR-577
rs2013937	chr7:89704739	STEAP2:miR-32
rs9731	chr7:89882881	CLDN12:miR-135a
rs9731	chr7:89882881	CLDN12:miR-135b
rs9731	chr7:89882881	CLDN12:miR-432*
rs57094099	chr7:90674852	PFTK1:miR-801
rs57094099	chr7:90674852	PFTK1:miR-33b
rs35145764	chr7:90677600	PFTK1:miR-154*
rs35145764	chr7:90677600	PFTK1:miR-487a
rs35145764	chr7:90677600	PFTK1:miR-487b
rs3088018	chr7:90677601	PFTK1:miR-154*
rs3088018	chr7:90677601	PFTK1:miR-487a
rs3088018	chr7:90677601	PFTK1:miR-487b
rs1045701	chr7:91926032	GATAD1:miR-382
rs1044920	chr7:92029445	MGC40405:miR-517a
rs1044920	chr7:92029445	MGC40405:miR-517c
rs28756324	chr7:92075760	CDK6:miR-559
rs28756324	chr7:92075760	CDK6:miR-577
rs28736851	chr7:92075761	CDK6:miR-559
rs28736851	chr7:92075761	CDK6:miR-577
rs34855746	chr7:92078871	CDK6:miR-561
rs3202178	chr7:93897937	COL1A2:miR-140
rs3202178	chr7:93897937	COL1A2:miR-584
rs1061207	chr7:93897952	COL1A2:miR-19a
rs1061207	chr7:93897952	COL1A2:miR-19b
rs28364823	chr7:94135230	PEG10:miR-570
rs17773605	chr7:94762474	PPP1R9A:miR-768-3p
rs2272281	chr7:96478206	DLX6:miR-144
rs2272282	chr7:96478213	DLX6:miR-144
rs9373	chr7:98463193	SMURF1:miR-553

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs14431	chr7:98801718	ARPC1A:miR-583
rs11546363	chr7:99011236	ZNF655:miR-492
rs13230847	chr7:99590194	FLJ10925:miR-216
rs11512	chr7:99902129	TSC22D4:miR-490
rs11559120	chr7:99902129	TSC22D4:miR-490
rs11512	chr7:99902129	TSC22D4:miR-216
rs11559120	chr7:99902129	TSC22D4:miR-216
rs1052679	chr7:100114554	GNB2:miR-629
rs35095297	chr7:100116401	PERQ1:miR-181b
rs35095297	chr7:100116401	PERQ1:miR-181d
rs2227714	chr7:100568629	SERPINE1:miR-10a
rs2227714	chr7:100568629	SERPINE1:miR-10b
rs1801003	chr7:100568673	SERPINE1:miR-425-5p
rs11762601	chr7:100987767	EMID2:miR-766
rs7457507	chr7:102740187	ZRF1:miR-580
rs7811571	chr7:102900344	RELN:miR-491
rs2307411	chr7:103554432	ORC5L:miR-610
rs62486628	chr7:104541644	MLL5:miR-154*
rs62486628	chr7:104541644	MLL5:miR-487a
rs2073550	chr7:104544719	SRPK2:miR-801
rs3192850	chr7:104884511	PUS7:miR-506
rs10263784	chr7:105678700	PBEF1:miR-605
rs10263784	chr7:105678700	PBEF1:miR-342
rs62467974	chr7:107187019	CBLL1:miR-526b
rs4727712	chr7:108001681	DNAJB9:miR-132
rs4727712	chr7:108001681	DNAJB9:miR-212
rs34492231	chr7:110552393	LRRN3:miR-188
rs59573982	chr7:112193225	FLJ13576:miR-522
rs59573982	chr7:112193225	FLJ13576:miR-135a
rs59573982	chr7:112193225	FLJ13576:miR-135b
rs11538991	chr7:112193721	FLJ13576:miR-768-5p
rs2255813	chr7:112509514	GPR85:miR-382
rs3823516	chr7:112509521	GPR85:miR-592
rs60685449	chr7:112510745	GPR85:miR-508
rs60956131	chr7:115987021	CAV1:miR-346
rs34585220	chr7:115988172	CAV1:miR-559
rs6868	chr7:115988260	CAV1:miR-140
rs41281081	chr7:116223501	MET:miR-335
rs1621	chr7:116224842	MET:miR-199a*
rs1801056	chr7:116345266	CAPZA2:miR-140
rs1801055	chr7:116345353	CAPZA2:miR-30a-3p
rs1801055	chr7:116345353	CAPZA2:miR-30e-3p
rs4730796	chr7:117138399	CTTNBP2:miR-553
rs1061731	chr7:117619374	LSM8:miR-181b
rs1061731	chr7:117619374	LSM8:miR-181d
rs1061731	chr7:117619374	LSM8:miR-574
rs13225586	chr7:120175764	KCND2:miR-557
rs13238427	chr7:120175926	KCND2:miR-548c
rs13238785	chr7:120175950	KCND2:miR-516-5p
rs34866637	chr7:121488849	PTPRZ1:miR-514
rs34866637	chr7:121488849	PTPRZ1:miR-96
rs1073682	chr7:123110320	WASL:miR-498

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs61387239	chr7:123111403	WASL:miR-1
rs61387239	chr7:123111403	WASL:miR-206
rs61387239	chr7:123111403	WASL:miR-142-3p
rs34182595	chr7:125866120	GRM8:miR-103
rs34182595	chr7:125866120	GRM8:miR-107
rs35834356	chr7:126798171	LOC168850:miR-625
rs35834356	chr7:126798171	LOC168850:miR-185
rs17866349	chr7:126798922	LOC168850:miR-515-3p
rs11539551	chr7:127018927	ARF5:miR-412
rs41274233	chr7:128198200	CALU:miR-7
rs11545535	chr7:128198584	CALU:miR-495
rs1048459	chr7:128286482	FLNC:miR-320
rs10954213	chr7:128376663	IRF5:miR-181b
rs10954213	chr7:128376663	IRF5:miR-181d
rs1046499	chr7:128595568	TSPAN33:miR-663
rs1061285	chr7:128640544	SMO:miR-626
rs35624913	chr7:129557998	KIAA0265:miR-491
rs35624913	chr7:129557998	KIAA0265:miR-299-3p
rs13228714	chr7:129643610	LOC136263:miR-140
rs1050667	chr7:129933229	MEST:miR-140
rs1050667	chr7:129933229	MEST:miR-644
rs1050667	chr7:129933229	MEST:miR-203
rs1803442	chr7:129933230	MEST:miR-140
rs1803442	chr7:129933230	MEST:miR-644
rs1803442	chr7:129933230	MEST:miR-203
rs397594	chr7:130823293	MKLN1:miR-142-5p
rs61633212	chr7:131458802	PLXNA4:miR-145
rs1803232	chr7:134303836	CALD1:miR-34b
rs1803232	chr7:134303836	CALD1:miR-527
rs11204	chr7:134304470	CALD1:miR-142-5p
rs14469	chr7:134697359	CNOT4:miR-653
rs17168525	chr7:135263802	MTPN:miR-202
rs8191992	chr7:136351848	CHRM2:miR-383
rs1451527	chr7:136563023	PTN:miR-203
rs1731951	chr7:136726387	DGKI:miR-376a*
rs2351859	chr7:137210366	CREB3L2:miR-520d*
rs13233916	chr7:138524956	TTC26:miR-506
rs17160856	chr7:138633246	FLJ25778:miR-139
rs17160856	chr7:138633246	FLJ25778:miR-27a
rs17160856	chr7:138633246	FLJ25778:miR-27b
rs35625460	chr7:138642693	FLJ25778:miR-603
rs35625460	chr7:138642693	FLJ25778:miR-641
rs35625460	chr7:138642693	FLJ25778:miR-124a
rs1127424	chr7:138758200	LUC7L2:miR-517*
rs12703525	chr7:139431110	KIAA1718:miR-372
rs12703525	chr7:139431110	KIAA1718:miR-93
rs17620927	chr7:139799780	MKRN1:miR-106a
rs17620927	chr7:139799780	MKRN1:miR-106b
rs17620927	chr7:139799780	MKRN1:miR-17-5p
rs17620927	chr7:139799780	MKRN1:miR-20a
rs17620927	chr7:139799780	MKRN1:miR-20b
rs17620927	chr7:139799780	MKRN1:miR-519d

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs17620927	chr7:139799780	MKRN1:miR-302a
rs17620927	chr7:139799780	MKRN1:miR-302b
rs17620927	chr7:139799780	MKRN1:miR-302c
rs17620927	chr7:139799780	MKRN1:miR-302d
rs17620927	chr7:139799780	MKRN1:miR-373
rs17620927	chr7:139799780	MKRN1:miR-519e
rs17620927	chr7:139799780	MKRN1:miR-520a
rs17620927	chr7:139799780	MKRN1:miR-520b
rs17620927	chr7:139799780	MKRN1:miR-520c
rs17620927	chr7:139799780	MKRN1:miR-520d
rs17620927	chr7:139799780	MKRN1:miR-520e
rs17620927	chr7:139799780	MKRN1:miR-526b*
rs11556753	chr7:139800458	MKRN1:miR-373*
rs34116813	chr7:139800726	MKRN1:miR-513
rs35607238	chr7:141005376	KIAA1147:miR-589
rs11551881	chr7:142711140	CASP2:let-7e
rs8829	chr7:148135551	EZH2:miR-101
rs11541108	chr7:148135587	EZH2:miR-567
rs11764897	chr7:149701995	REPIN1:miR-520a*
rs11764897	chr7:149701995	REPIN1:miR-525
rs41312081	chr7:150272989	KCNH2:miR-651
rs11772645	chr7:150344499	ATG9B:miR-657
rs11772645	chr7:150344499	ATG9B:miR-637
rs3800789	chr7:150344760	ATG9B:miR-647
rs11542751	chr7:150404476	SLC4A2:miR-583
rs11542751	chr7:150404476	SLC4A2:miR-577
rs7429	chr7:150884159	PRKAG2:miR-769-3p
rs62481481	chr7:151463368	MLL3:miR-659
rs62472998	chr7:154316351	DPP6:miR-381
rs34506906	chr7:154366348	PAXIP1:miR-519a
rs34506906	chr7:154366348	PAXIP1:miR-519b
rs34506906	chr7:154366348	PAXIP1:miR-519c
rs1129896	chr7:154731992	INSIG1:miR-559
rs1129897	chr7:154731993	INSIG1:miR-559
rs1006525	chr7:155264962	RBM33:miR-768-5p
rs1053214	chr7:156168208	LMBR1:miR-380-3p
rs35152520	chr7:156871698	DNAJB6:miR-145
rs2366514	chr7:156871699	DNAJB6:miR-145
rs35732045	chr7:156871715	DNAJB6:miR-559
rs57227525	chr7:156871754	DNAJB6:miR-634
rs6992443	chr8:1637345	DLGAP2:miR-377
rs6992443	chr8:1637345	DLGAP2:miR-154*
rs6992443	chr8:1637345	DLGAP2:miR-487a
rs6992443	chr8:1637345	DLGAP2:miR-126*
rs34664602	chr8:1638873	DLGAP2:miR-129
rs60260705	chr8:1893461	ARHGEF10:miR-380-3p
rs60260705	chr8:1893461	ARHGEF10:miR-130a
rs60260705	chr8:1893461	ARHGEF10:miR-130b
rs60260705	chr8:1893461	ARHGEF10:miR-301
rs60260705	chr8:1893461	ARHGEF10:miR-454-3p
rs11986753	chr8:1894116	ARHGEF10:miR-490
rs59430375	chr8:2780553	CSMD1:miR-186

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs56986664	chr8:2781167	CSMD1:miR-567
rs3214964	chr8:2782827	CSMD1:miR-361
rs3735812	chr8:11654774	GATA4:miR-191
rs62494571	chr8:12077546	FAM86B1:miR-575
rs1018856	chr8:12623853	LONRF1:miR-137
rs7005881	chr8:12624420	LONRF1:miR-34a
rs7005881	chr8:12624420	LONRF1:miR-34c
rs7005881	chr8:12624420	LONRF1:miR-449
rs7005881	chr8:12624420	LONRF1:miR-449b
rs7005881	chr8:12624420	LONRF1:miR-142-3p
rs17118615	chr8:13991886	SGCZ:miR-143
rs14732	chr8:15666322	TUSC3:miR-603
rs34625377	chr8:17131791	CNOT7:miR-142-5p
rs11554623	chr8:17132288	CNOT7:miR-559
rs8276	chr8:17197228	VPS37A:miR-539
rs7001231	chr8:19306010	ChGn:miR-581
rs8011	chr8:20123322	ATP6V1B2:miR-25
rs8011	chr8:20123322	ATP6V1B2:miR-367
rs8011	chr8:20123322	ATP6V1B2:miR-92
rs8011	chr8:20123322	ATP6V1B2:miR-92b
rs2960142	chr8:21919197	XPO7:miR-432
rs15168	chr8:21919870	XPO7:miR-577
rs1063441	chr8:21995746	EPB49:miR-526b
rs61350751	chr8:22017546	RAI16:miR-182
rs55931974	chr8:22027914	HR:miR-186
rs34341867	chr8:22334511	SLC39A14:miR-765
rs34341867	chr8:22334511	SLC39A14:miR-516-5p
rs34341867	chr8:22334511	SLC39A14:miR-490
rs7431	chr8:22454407	PPP3CC:miR-570
rs58582390	chr8:23756465	STC1:miR-454-5p
rs58582390	chr8:23756465	STC1:miR-668
rs13252190	chr8:23756609	STC1:miR-574
rs60163317	chr8:23758153	STC1:miR-564
rs60163317	chr8:23758153	STC1:miR-144
rs60163317	chr8:23758153	STC1:miR-148a
rs4056572	chr8:25341643	KCTD9:miR-573
rs4056572	chr8:25341643	KCTD9:miR-522
rs4056574	chr8:25341689	KCTD9:miR-154
rs62502020	chr8:25341885	KCTD9:miR-629
rs3057729	chr8:25342702	KCTD9:miR-559
rs10495	chr8:26571389	DPYSL2:miR-548d
rs1058457	chr8:26571493	DPYSL2:miR-34b
rs17055967	chr8:26683182	ADRA1A:miR-559
rs17055967	chr8:26683182	ADRA1A:miR-577
rs2271920	chr8:27372034	PTK2B:miR-331
rs35521239	chr8:28260413	ZNF395:miR-605
rs35521239	chr8:28260413	ZNF395:miR-454-5p
rs62502406	chr8:28260417	ZNF395:miR-605
rs62502406	chr8:28260417	ZNF395:miR-454-5p
rs2692	chr8:28980813	KIF13B:miR-496
rs10088145	chr8:30535973	RBPMS:miR-562
rs1046	chr8:30763168	PPP2CB:miR-155

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1044	chr8:30763245	PPP2CB:miR-9*
rs2241300	chr8:30973010	PURG:miR-335
rs2241300	chr8:30973010	PURG:miR-506
rs2241300	chr8:30973010	PURG:miR-29a
rs2241300	chr8:30973010	PURG:miR-29b
rs2241300	chr8:30973010	PURG:miR-29c
rs3313	chr8:38187577	BAG4:miR-568
rs17182477	chr8:38389580	FGFR1:miR-200a*
rs11548610	chr8:38389779	FGFR1:miR-545
rs11548610	chr8:38389779	FGFR1:miR-559
rs1802270	chr8:38829378	TACC1:miR-424
rs4737147	chr8:40508206	ZMAT4:miR-379
rs4736958	chr8:41238654	SFRP1:miR-140
rs35125180	chr8:41631638	ANK1:miR-381
rs3832594	chr8:41906866	MYST3:miR-205
rs15329	chr8:41907625	MYST3:miR-513
rs1050991	chr8:41908695	MYST3:miR-589
rs11558227	chr8:42382254	VDAC3:miR-768-5p
rs35705942	chr8:52895343	PCMTD1:miR-552
rs11550739	chr8:55042589	TCEA1:miR-493-5p
rs11782817	chr8:57236787	PLAG1:miR-27a
rs11782817	chr8:57236787	PLAG1:miR-27b
rs11782817	chr8:57236787	PLAG1:miR-144
rs34715615	chr8:57237485	PLAG1:miR-559
rs56820814	chr8:59222817	C8orf72:miR-9*
rs61342818	chr8:65657875	BHLHB5:miR-655
rs61342818	chr8:65657875	BHLHB5:miR-302b*
rs16931326	chr8:65657887	BHLHB5:miR-135a
rs16931326	chr8:65657887	BHLHB5:miR-135b
rs3750184	chr8:66679044	ARMC1:miR-302a*
rs3763513	chr8:66784346	MTFR1:miR-216
rs3763513	chr8:66784346	MTFR1:miR-452*
rs56198403	chr8:67249861	TRIM55:miR-569
rs5892065	chr8:67708360	VCPIP1:miR-186
rs35802644	chr8:67708361	VCPIP1:miR-186
rs3087714	chr8:70735558	SULF1:miR-330
rs60220895	chr8:71186929	NCOA2:miR-647
rs60220895	chr8:71186929	NCOA2:miR-656
rs8993	chr8:71648639	TRAM1:miR-620
rs1043024	chr8:71648640	TRAM1:miR-620
rs34541916	chr8:74866320	UBE2W:miR-630
rs55709201	chr8:74866925	UBE2W:miR-582
rs62508045	chr8:74867256	UBE2W:miR-520d*
rs2941477	chr8:76639225	HNF4G:miR-323
rs34772424	chr8:76641293	HNF4G:miR-591
rs2941484	chr8:76641323	HNF4G:miR-568
rs16939381	chr8:77940674	ZFH4:miR-653
rs11419240	chr8:77941251	ZFH4:miR-548c
rs35892151	chr8:77941252	ZFH4:miR-548c
rs17445167	chr8:77941317	ZFH4:miR-494
rs1801420	chr8:79676955	PKIA:miR-501
rs2467789	chr8:80839819	HEY1:miR-577

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs62514914	chr8:80839860	HEY1:miR-186
rs1042683	chr8:81111508	TPD52:miR-140
rs1802745	chr8:81112861	TPD52:miR-452
rs408925	chr8:81596841	ZBTB10:miR-548c
rs10098288	chr8:82359513	FABP5:miR-521
rs10094238	chr8:85995994	LOC138046:miR-623
rs10094238	chr8:85995994	LOC138046:miR-142-3p
rs4566	chr8:86548334	CA3:miR-328
rs58997023	chr8:87548742	WWP1:miR-302c*
rs28988888	chr8:89120872	MMP16:miR-641
rs28988886	chr8:89121107	MMP16:miR-562
rs28988884	chr8:89121576	MMP16:miR-539
rs28988882	chr8:89122356	MMP16:miR-559
rs62526888	chr8:91706943	TMEM64:miR-186
rs3830308	chr8:92040248	EFCBP1:miR-186
rs34984375	chr8:92040255	EFCBP1:miR-186
rs35868637	chr8:94813052	RBM12B:miR-142-5p
rs2924475	chr8:96009918	TP53INP1:miR-570
rs60534730	chr8:97223954	GDF6:miR-203
rs2449512	chr8:98807085	MTDH:miR-539
rs34994236	chr8:99536851	STK3:miR-299-5p
rs2446917	chr8:101214885	FBXO43:miR-522
rs12542891	chr8:101338680	RNF19:miR-518b
rs12542891	chr8:101338680	RNF19:miR-518c
rs12542891	chr8:101338680	RNF19:miR-518d
rs7834075	chr8:101339499	RNF19:miR-613
rs11988199	chr8:101339620	RNF19:miR-409-3p
rs11988199	chr8:101339620	RNF19:miR-512-3p
rs1062376	chr8:102000325	YWHAZ:miR-454-5p
rs4003437	chr8:102000433	YWHAZ:miR-452*
rs3921614	chr8:102001302	YWHAZ:miR-548c
rs61058951	chr8:102769800	NCALD:miR-527
rs14674	chr8:103335416	EDD1:miR-642
rs28485929	chr8:103908275	AZIN1:miR-605
rs2809	chr8:103908539	AZIN1:miR-96
rs2809	chr8:103908539	AZIN1:miR-593
rs62527061	chr8:104480596	SLC25A32:miR-769-3p
rs61055369	chr8:105333280	RIMS2:miR-140
rs34750742	chr8:105333281	RIMS2:miR-140
rs34782242	chr8:105333931	RIMS2:miR-450
rs34782242	chr8:105333931	RIMS2:miR-129
rs34435746	chr8:105333932	RIMS2:miR-450
rs34435746	chr8:105333932	RIMS2:miR-129
rs1053039	chr8:106885662	ZFPM2:miR-142-5p
rs12542906	chr8:107833970	OXR1:miR-7
rs1048378	chr8:110424921	ENY2:miR-577
rs1045664	chr8:113304383	CSMD3:miR-561
rs12681983	chr8:113304692	CSMD3:miR-620
rs5894075	chr8:113304851	CSMD3:miR-570
rs231153	chr8:116490610	TRPS1:miR-552
rs231153	chr8:116490610	TRPS1:miR-491
rs56778552	chr8:116494941	TRPS1:miR-801



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs17297063	chr8:117927368	RAD21:miR-374
rs17297063	chr8:117927368	RAD21:miR-369-3p
rs11548731	chr8:117927421	RAD21:miR-335
rs11548728	chr8:117927438	RAD21:miR-424
rs11548728	chr8:117927438	RAD21:miR-802
rs14795	chr8:117927531	RAD21:miR-625
rs11562692	chr8:119271149	SAMD12:miR-571
rs4467962	chr8:119278394	SAMD12:miR-142-5p
rs3094022	chr8:120005337	TNFRSF11B:miR-568
rs3094022	chr8:120005337	TNFRSF11B:miR-19a
rs3094022	chr8:120005337	TNFRSF11B:miR-19b
rs11573945	chr8:120005422	TNFRSF11B:miR-584
rs11573945	chr8:120005422	TNFRSF11B:miR-135a
rs11573945	chr8:120005422	TNFRSF11B:miR-135b
rs3134037	chr8:120005452	TNFRSF11B:miR-216
rs3134038	chr8:120005457	TNFRSF11B:miR-216
rs3094021	chr8:120005498	TNFRSF11B:miR-124a
rs1057315	chr8:122695013	HAS2:miR-561
rs3802266	chr8:124054889	ZHX2:miR-660
rs60966457	chr8:124330244	ZHX1:miR-561
rs35738235	chr8:124895612	FAM91A1:miR-410
rs17351749	chr8:124895710	FAM91A1:miR-183
rs58300080	chr8:124895776	FAM91A1:miR-383
rs7017024	chr8:131136120	DDEF1:miR-431
rs7017024	chr8:131136120	DDEF1:miR-643
rs7016780	chr8:131136121	DDEF1:miR-431
rs7016780	chr8:131136121	DDEF1:miR-643
rs4736611	chr8:133927894	PHF20L1:miR-181b
rs4736611	chr8:133927894	PHF20L1:miR-181d
rs62514123	chr8:133928302	PHF20L1:miR-483
rs3184618	chr8:136728608	KHDRBS3:miR-630
rs59580956	chr8:136728685	KHDRBS3:miR-511
rs59580956	chr8:136728685	KHDRBS3:miR-187
rs35205542	chr8:136728912	KHDRBS3:miR-129
rs41272407	chr8:141738145	PTK2:miR-559
rs41305527	chr8:141738505	PTK2:miR-221
rs5895799	chr8:145062072	PLEC1:miR-124a
rs5895799	chr8:145062072	PLEC1:miR-506
rs5895799	chr8:145062072	PLEC1:miR-566
rs13263500	chr8:145719128	LRRC14:miR-149
rs7048532	chr9:2183359	SMARCA2:miR-186
rs7048532	chr9:2183359	SMARCA2:miR-335
rs45616134	chr9:2183437	SMARCA2:miR-542-3p
rs10967349	chr9:2644402	VLDLR:miR-205
rs62534387	chr9:2794197	KIAA0020:miR-376a*
rs3174298	chr9:4696366	CDC37L1:miR-559
rs35275364	chr9:5764270	KIAA1432:miR-200b
rs35275364	chr9:5764270	KIAA1432:miR-200c
rs35275364	chr9:5764270	KIAA1432:miR-429
rs56225076	chr9:6001046	RANBP6:miR-194
rs36108024	chr9:6497024	UHRF2:miR-202
rs62536166	chr9:8304850	PTPRD:miR-34a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs62536166	chr9:8304850	PTPRD:miR-34c
rs62536166	chr9:8304850	PTPRD:miR-449
rs62536166	chr9:8304850	PTPRD:miR-449b
rs62536166	chr9:8304850	PTPRD:miR-148b
rs62536166	chr9:8304850	PTPRD:miR-152
rs62536166	chr9:8304850	PTPRD:miR-153
rs7027735	chr9:8305133	PTPRD:miR-299-5p
rs12340202	chr9:8306465	PTPRD:miR-656
rs3215100	chr9:8307231	PTPRD:miR-548b
rs3215100	chr9:8307231	PTPRD:miR-548c
rs10756453	chr9:13095959	MPDZ:miR-569
rs484555	chr9:14075583	NFIB:miR-143
rs484555	chr9:14075583	NFIB:miR-577
rs3739759	chr9:14077766	NFIB:miR-338
rs3739759	chr9:14077766	NFIB:miR-770-5p
rs7858	chr9:14077769	NFIB:miR-338
rs7858	chr9:14077769	NFIB:miR-770-5p
rs3209160	chr9:14608316	ZDHHC21:miR-196a
rs3209160	chr9:14608316	ZDHHC21:miR-196b
rs41303233	chr9:15455038	PSIP1:miR-643
rs11542612	chr9:15455219	PSIP1:miR-32
rs3179845	chr9:16406403	BNC2:miR-452
rs9407885	chr9:17786948	SH3GL2:miR-544
rs11552822	chr9:21961108	CDKN2A:miR-517a
rs11552822	chr9:21961108	CDKN2A:miR-517c
rs34968276	chr9:21961109	CDKN2A:miR-517a
rs34968276	chr9:21961109	CDKN2A:miR-517c
rs35009436	chr9:25667185	TUSC1:miR-141
rs35009436	chr9:25667185	TUSC1:miR-200a
rs35009436	chr9:25667185	TUSC1:miR-429
rs13297394	chr9:32530842	TOPORS:miR-488
rs34721491	chr9:32531033	TOPORS:miR-186
rs11542818	chr9:33029015	DNAJA1:miR-584
rs41316007	chr9:34077782	WDR40A:miR-320
rs10565742	chr9:34242474	UBAP1:miR-522
rs1802446	chr9:34603855	DCTN3:miR-185
rs1053447	chr9:35046679	VCP:miR-568
rs1053318	chr9:35046961	VCP:miR-339
rs35188451	chr9:35094914	KIAA1539:miR-650
rs10972766	chr9:36153089	C9orf19:miR-489
rs1803192	chr9:36201812	CLTA:miR-651
rs1803194	chr9:36201882	CLTA:miR-577
rs35533603	chr9:36326871	RNF38:miR-568
rs41277099	chr9:36326952	RNF38:miR-516-5p
rs41277099	chr9:36326952	RNF38:miR-637
rs12347708	chr9:36667608	MELK:miR-181b
rs12347708	chr9:36667608	MELK:miR-181d
rs41278297	chr9:37428158	ZBTB5:miR-29a
rs41278297	chr9:37428158	ZBTB5:miR-29b
rs41278297	chr9:37428158	ZBTB5:miR-29c
rs2308190	chr9:37429791	ZBTB5:miR-532
rs62640004	chr9:37770747	EXOSC3:miR-203

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs61500043	chr9:71059718	TJP2:miR-656
rs41308894	chr9:71197143	C9orf61:miR-450
rs41286035	chr9:72031225	MAMDC2:miR-7
rs3182600	chr9:74159224	ZFAND5:miR-374
rs3182600	chr9:74159224	ZFAND5:miR-369-3p
rs1043071	chr9:74159314	ZFAND5:miR-510
rs1802350	chr9:74159338	ZFAND5:miR-559
rs1043033	chr9:74159398	ZFAND5:miR-383
rs1043033	chr9:74159398	ZFAND5:let-7a
rs1043033	chr9:74159398	ZFAND5:let-7b
rs1043033	chr9:74159398	ZFAND5:let-7c
rs1043033	chr9:74159398	ZFAND5:let-7d
rs1043033	chr9:74159398	ZFAND5:let-7f
rs1043033	chr9:74159398	ZFAND5:let-7g
rs1043033	chr9:74159398	ZFAND5:let-7i
rs1043033	chr9:74159398	ZFAND5:miR-98
rs6715	chr9:74159402	ZFAND5:let-7a
rs6715	chr9:74159402	ZFAND5:let-7b
rs6715	chr9:74159402	ZFAND5:let-7c
rs6715	chr9:74159402	ZFAND5:let-7d
rs6715	chr9:74159402	ZFAND5:let-7f
rs6715	chr9:74159402	ZFAND5:let-7g
rs6715	chr9:74159402	ZFAND5:let-7i
rs6715	chr9:74159402	ZFAND5:miR-98
rs6715	chr9:74159402	ZFAND5:miR-515-3p
rs6715	chr9:74159402	ZFAND5:miR-520f
rs1802349	chr9:74159549	ZFAND5:miR-488
rs11549115	chr9:74160058	ZFAND5:miR-140
rs7872010	chr9:79189644	VPS13A:miR-559
rs7872010	chr9:79189644	VPS13A:miR-568
rs1132276	chr9:81530330	TLE4:miR-622
rs33918432	chr9:81530406	TLE4:miR-548b
rs33918432	chr9:81530406	TLE4:miR-548c
rs35737418	chr9:83388541	TLE1:miR-620
rs11292389	chr9:85052613	FRMD3:miR-224
rs12404	chr9:85466229	UBQLN1:miR-612
rs11659	chr9:85466396	UBQLN1:miR-519a
rs11659	chr9:85466396	UBQLN1:miR-519b
rs11659	chr9:85466396	UBQLN1:miR-519c
rs11548852	chr9:85773388	HNRPK:miR-495
rs3196513	chr9:85773786	HNRPK:miR-588
rs56148123	chr9:87351810	AGTPBP1:miR-579
rs4440696	chr9:88093187	ZCCHC6:miR-187
rs4440696	chr9:88093187	ZCCHC6:miR-511
rs3118864	chr9:89512708	DAPK1:miR-184
rs11555956	chr9:90282734	SPIN:miR-559
rs36046828	chr9:90282937	SPIN:miR-653
rs11554135	chr9:90817902	SHC3:miR-494
rs11554135	chr9:90817902	SHC3:miR-641
rs12519	chr9:90817902	SHC3:miR-494
rs12519	chr9:90817902	SHC3:miR-641
rs11539615	chr9:92412046	DIRAS2:miR-577

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs11539615	chr9:92412046	DIRAS2:miR-142-5p
rs11541746	chr9:95366922	C9orf10:miR-575
rs41274410	chr9:95366925	C9orf10:miR-575
rs11975	chr9:95367512	C9orf10:miR-580
rs1140722	chr9:95480149	PHF2:miR-659
rs11545561	chr9:96262786	HIATL1:miR-186
rs17840743	chr9:96262786	HIATL1:miR-186
rs36021882	chr9:98302507	CDC14B:miR-499
rs11568808	chr9:100951974	TGFBR1:miR-582
rs11568809	chr9:100952457	TGFBR1:miR-646
rs11568809	chr9:100952457	TGFBR1:miR-562
rs41283642	chr9:100955708	TGFBR1:miR-142-3p
rs1131340	chr9:101667136	NR4A3:miR-181b
rs1131340	chr9:101667136	NR4A3:miR-181d
rs1131340	chr9:101667136	NR4A3:miR-574
rs41273939	chr9:101783405	TXNDC4:miR-802
rs16919211	chr9:102379661	TMEFF1:miR-544
rs10649646	chr9:103126494	PRG-3:miR-630
rs59819238	chr9:103126496	PRG-3:miR-630
rs59311341	chr9:103163073	BAAT:miR-19a
rs59311341	chr9:103163073	BAAT:miR-19b
rs61261464	chr9:103163501	BAAT:miR-186
rs1135370	chr9:103164329	BAAT:miR-584
rs59775931	chr9:103372889	GRIN3A:miR-600
rs41282161	chr9:103396221	PPP3R2:miR-182*
rs3739725	chr9:103396344	PPP3R2:miR-765
rs10991377	chr9:106583197	ABCA1:miR-382
rs11540325	chr9:106584811	ABCA1:miR-575
rs34352903	chr9:106586218	ABCA1:miR-641
rs56876158	chr9:107192606	SLC44A1:miR-34b
rs56876158	chr9:107192606	SLC44A1:miR-650
rs7018714	chr9:107192642	SLC44A1:miR-374
rs11330639	chr9:107576248	TMEM38B:miR-539
rs58896239	chr9:107576252	TMEM38B:miR-539
rs10978241	chr9:107576689	TMEM38B:miR-579
rs55713214	chr9:109132782	RAD23B:miR-494
rs14705	chr9:109134188	RAD23B:miR-186
rs12336214	chr9:109286965	KLF4:miR-142-5p
rs12336214	chr9:109286965	KLF4:miR-656
rs11550076	chr9:109287173	KLF4:miR-32
rs11550076	chr9:109287173	KLF4:miR-363
rs45505996	chr9:109287203	KLF4:miR-626
rs7023002	chr9:109287739	KLF4:miR-591
rs34632045	chr9:110975146	EPB41L4B:miR-496
rs60747260	chr9:111042516	EPB41L4B:miR-142-5p
rs41278389	chr9:111043572	EPB41L4B:miR-580
rs34967113	chr9:111746242	PALM2:miR-568
rs4978878	chr9:111972125	PALM2-AKAP2:miR-373*
rs4978878	chr9:111972125	PALM2-AKAP2:miR-616
rs41278417	chr9:111974311	AKAP2:miR-1
rs41278417	chr9:111974311	PALM2-AKAP2:miR-1
rs41278417	chr9:111974311	PALM2-AKAP2:miR-206

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs58477888	chr9:114671718	SNX30:miR-634
rs912665	chr9:114671718	SNX30:miR-634
rs58477888	chr9:114671718	SNX30:miR-548d
rs912665	chr9:114671718	SNX30:miR-548d
rs58178966	chr9:114676878	SNX30:miR-421
rs58178966	chr9:114676878	SNX30:miR-545
rs15076	chr9:114676879	SNX30:miR-421
rs15076	chr9:114676879	SNX30:miR-545
rs3184777	chr9:114967695	FKBP15:miR-583
rs1128147	chr9:114967698	FKBP15:miR-583
rs34450094	chr9:118202211	PAPPA:miR-196a
rs34450094	chr9:118202211	PAPPA:miR-196b
rs34450094	chr9:118202211	PAPPA:let-7a
rs34450094	chr9:118202211	PAPPA:let-7b
rs34450094	chr9:118202211	PAPPA:let-7c
rs34450094	chr9:118202211	PAPPA:let-7d
rs34450094	chr9:118202211	PAPPA:let-7f
rs34450094	chr9:118202211	PAPPA:let-7g
rs34450094	chr9:118202211	PAPPA:let-7i
rs34450094	chr9:118202211	PAPPA:miR-98
rs34450094	chr9:118202211	PAPPA:miR-432
rs56186860	chr9:123584631	DAB2IP:miR-642
rs56186860	chr9:123584631	DAB2IP:miR-642
rs10568818	chr9:124006350	LHX6:miR-135a
rs10568818	chr9:124006350	LHX6:miR-135b
rs58532716	chr9:124006351	LHX6:miR-135a
rs58532716	chr9:124006351	LHX6:miR-135b
rs59695989	chr9:124905903	RABGAP1:miR-616
rs10985891	chr9:124927444	STRBP:miR-384
rs41274378	chr9:126324569	NR6A1:miR-377
rs1110026	chr9:126324572	NR6A1:miR-377
rs1110026	chr9:126324572	NR6A1:miR-335
rs1064785	chr9:126324576	NR6A1:miR-335
rs14622	chr9:126616878	OLFML2A:miR-577
rs14622	chr9:126616878	OLFML2A:miR-559
rs8975	chr9:126616908	OLFML2A:miR-600
rs59019646	chr9:126679504	ARPC5L:miR-628
rs3832632	chr9:126681854	GOLGA1:miR-190
rs3209735	chr9:127323573	MAPKAP1:miR-620
rs11792585	chr9:127768280	PBX3:miR-562
rs11792585	chr9:127768280	PBX3:miR-142-5p
rs35508948	chr9:127769189	PBX3:miR-129
rs12379699	chr9:128199648	C9orf28:miR-651
rs57760288	chr9:128305606	C9orf28:miR-558
rs10339	chr9:128889551	ANGPTL2:miR-496
rs35150575	chr9:129021576	RALGPS1:miR-641
rs57440312	chr9:129024917	RALGPS1:miR-539
rs55850849	chr9:129195519	GARNL3:miR-183
rs55850849	chr9:129195519	GARNL3:miR-652
rs1132847	chr9:129307483	C9orf88:miR-648
rs56802879	chr9:129534766	TOR2A:miR-594
rs1042320	chr9:129616079	FPGS:miR-524

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1042320	chr9:129616079	FPGS:miR-525*
rs3192738	chr9:130296868	ODF2:miR-583
rs56234711	chr9:130496858	SET:miR-625
rs10988093	chr9:130496946	SET:miR-630
rs1061240	chr9:130497076	SET:miR-658
rs10988095	chr9:130497167	SET:miR-326
rs10988096	chr9:130497169	SET:miR-326
rs60244041	chr9:130612480	TBC1D13:miR-345
rs60244041	chr9:130612480	TBC1D13:miR-101
rs60244041	chr9:130612480	TBC1D13:miR-15a
rs60244041	chr9:130612480	TBC1D13:miR-15b
rs60244041	chr9:130612480	TBC1D13:miR-16
rs60244041	chr9:130612480	TBC1D13:miR-195
rs60244041	chr9:130612480	TBC1D13:miR-497
rs55985529	chr9:130624470	C9orf114:miR-154
rs12342339	chr9:130892321	DOLPP1:miR-506
rs11482915	chr9:132035722	FREQ:miR-568
rs12552647	chr9:132503356	FUBP3:miR-613
rs12552647	chr9:132503356	FUBP3:miR-191
rs2027386	chr9:132548103	PRDM12:miR-656
rs58954685	chr9:134756994	TSC1:miR-31
rs58954685	chr9:134756994	TSC1:miR-520g
rs58954685	chr9:134756994	TSC1:miR-520h
rs17151353	chr9:135888406	BRD3:miR-656
rs433402	chr9:135888448	BRD3:let-7a
rs433402	chr9:135888448	BRD3:let-7b
rs433402	chr9:135888448	BRD3:let-7c
rs433402	chr9:135888448	BRD3:let-7d
rs433402	chr9:135888448	BRD3:let-7f
rs433402	chr9:135888448	BRD3:let-7g
rs433402	chr9:135888448	BRD3:let-7i
rs433402	chr9:135888448	BRD3:miR-98
rs34439674	chr9:136472222	RXRA:miR-574
rs56031840	chr9:136876399	COL5A1:miR-582
rs3128575	chr9:136876471	COL5A1:miR-126*
rs34883129	chr9:137129671	OLFM1:miR-586
rs34883129	chr9:137129671	OLFM1:miR-519a
rs34883129	chr9:137129671	OLFM1:miR-519b
rs34883129	chr9:137129671	OLFM1:miR-519c
rs13293894	chr9:137129751	OLFM1:miR-223
rs13286076	chr9:137129762	OLFM1:miR-493-3p
rs34512090	chr9:137519996	KIAA0649:miR-520d*
rs3780189	chr9:138238037	QSOX2:miR-656
rs3903141	chr9:139257969	TUBB2C:miR-302a
rs3903141	chr9:139257969	TUBB2C:miR-302b
rs3903141	chr9:139257969	TUBB2C:miR-302c
rs3903141	chr9:139257969	TUBB2C:miR-302d
rs3903141	chr9:139257969	TUBB2C:miR-373
rs3903141	chr9:139257969	TUBB2C:miR-520a
rs3903141	chr9:139257969	TUBB2C:miR-520b
rs3903141	chr9:139257969	TUBB2C:miR-520c
rs3903141	chr9:139257969	TUBB2C:miR-520d

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3903141	chr9:139257969	TUBB2C:miR-520e
rs3903141	chr9:139257969	TUBB2C:miR-526b*
rs3903141	chr9:139257969	TUBB2C:miR-106a
rs3903141	chr9:139257969	TUBB2C:miR-106b
rs3903141	chr9:139257969	TUBB2C:miR-17-5p
rs3903141	chr9:139257969	TUBB2C:miR-20a
rs3903141	chr9:139257969	TUBB2C:miR-20b
rs3903141	chr9:139257969	TUBB2C:miR-580
rs17158753	chr10:313034	DIP2C:miR-650
rs17293531	chr10:848207	LARP5:miR-485-5p
rs34248524	chr10:1165477	WDR37:miR-577
rs34248524	chr10:1165477	WDR37:miR-381
rs11250281	chr10:1165894	WDR37:miR-384
rs11544693	chr10:3811528	KLF6:miR-409-5p
rs60106768	chr10:3811549	KLF6:miR-767-5p
rs10527882	chr10:5192142	AKR1CL1:miR-581
rs10705866	chr10:5192144	AKR1CL1:miR-581
rs12838	chr10:5847890	GDI2:miR-524*
rs12838	chr10:5847890	GDI2:miR-335
rs3838748	chr10:6198818	RBM17:miR-142-5p
rs3839918	chr10:8156247	GATA3:miR-101
rs34211650	chr10:11412841	CUGBP2:let-7a
rs34211650	chr10:11412841	CUGBP2:let-7b
rs34211650	chr10:11412841	CUGBP2:let-7c
rs34211650	chr10:11412841	CUGBP2:let-7d
rs34211650	chr10:11412841	CUGBP2:let-7f
rs34211650	chr10:11412841	CUGBP2:let-7g
rs34211650	chr10:11412841	CUGBP2:let-7i
rs34211650	chr10:11412841	CUGBP2:miR-98
rs1802475	chr10:11415412	CUGBP2:miR-576
rs17454839	chr10:11415665	CUGBP2:miR-522
rs34057408	chr10:11542570	USP6NL:miR-577
rs61048750	chr10:11542657	USP6NL:miR-568
rs3057294	chr10:11542660	USP6NL:miR-568
rs3057294	chr10:11542660	USP6NL:miR-548c
rs34036377	chr10:12002566	UPF2:miR-138
rs61846677	chr10:12003143	UPF2:miR-485-5p
rs61846677	chr10:12003143	UPF2:miR-138
rs28422123	chr10:13400139	SEPHS1:miR-182
rs2650	chr10:13400176	SEPHS1:miR-595
rs2650	chr10:13400176	SEPHS1:miR-648
rs28410783	chr10:13400231	SEPHS1:miR-646
rs28711667	chr10:13400271	SEPHS1:miR-568
rs60843570	chr10:13725760	FRMD4A:miR-450
rs60843570	chr10:13725760	FRMD4A:miR-31
rs41301095	chr10:13726141	FRMD4A:miR-448
rs1132513	chr10:14600583	FAM107B:miR-140
rs1054657	chr10:15189986	NMT2:miR-368
rs17156419	chr10:15294578	C10orf38:miR-384
rs11346426	chr10:16594323	PTER:miR-143
rs4747277	chr10:16595808	C1QL3:miR-487b
rs9235	chr10:17319405	VIM:miR-590

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs59058506	chr10:17672346	PTPLA:miR-506
rs1046802	chr10:18869253	CACNB2:miR-609
rs4748484	chr10:18869267	CACNB2:miR-656
rs4748485	chr10:18869268	CACNB2:miR-656
rs5783610	chr10:18869963	CACNB2:miR-302b*
rs35051239	chr10:18869964	CACNB2:miR-302b*
rs5783611	chr10:18869987	CACNB2:miR-30a-5p
rs5783611	chr10:18869987	CACNB2:miR-30b
rs5783611	chr10:18869987	CACNB2:miR-30c
rs5783611	chr10:18869987	CACNB2:miR-30d
rs5783611	chr10:18869987	CACNB2:miR-30e-5p
rs33980121	chr10:18869988	CACNB2:miR-30a-5p
rs33980121	chr10:18869988	CACNB2:miR-30b
rs33980121	chr10:18869988	CACNB2:miR-30c
rs33980121	chr10:18869988	CACNB2:miR-30d
rs33980121	chr10:18869988	CACNB2:miR-30e-5p
rs16921055	chr10:21110991	NEBL:miR-568
rs11556881	chr10:21111147	NEBL:miR-142-5p
rs1062671	chr10:21112138	NEBL:miR-183
rs12360168	chr10:21842580	FLJ45187:miR-19a
rs12360168	chr10:21842580	FLJ45187:miR-19b
rs41304595	chr10:22864594	PIP4K2A:miR-135a
rs41304595	chr10:22864594	PIP4K2A:miR-135b
rs1127941	chr10:24912575	ARHGAP21:miR-199a
rs1127941	chr10:24912575	ARHGAP21:miR-199b
rs3184313	chr10:24912974	ARHGAP21:miR-183
rs3184313	chr10:24912974	ARHGAP21:miR-652
rs3184310	chr10:24912983	ARHGAP21:miR-548d
rs1127901	chr10:24913117	ARHGAP21:miR-532
rs41279904	chr10:25930692	GPR158:miR-758
rs3758451	chr10:25930864	GPR158:miR-561
rs8190821	chr10:26633450	GAD2:miR-577
rs1803070	chr10:27077027	ABI1:miR-655
rs11552011	chr10:27077060	ABI1:miR-495
rs9833	chr10:27440867	YME1L1:miR-581
rs16928140	chr10:28002030	IRXL1:miR-424
rs11549391	chr10:29011461	BAMBI:miR-452
rs12411558	chr10:29011521	BAMBI:miR-655
rs12411558	chr10:29011521	BAMBI:miR-369-3p
rs5784080	chr10:29011532	BAMBI:miR-559
rs55992850	chr10:29011535	BAMBI:miR-559
rs35579124	chr10:30790386	MAP3K8:miR-203
rs35579124	chr10:30790386	MAP3K8:miR-144
rs59203025	chr10:31856614	ZEB1:miR-629
rs1044795	chr10:32135255	ARHGAP12:miR-584
rs10826997	chr10:32136010	ARHGAP12:miR-628
rs1056356	chr10:32340150	KIF5B:miR-582
rs17576669	chr10:33229663	ITGB1:miR-542-3p
rs11553561	chr10:33507085	NRP1:miR-145
rs2506144	chr10:33508462	NRP1:miR-323
rs15460	chr10:35338918	CUL2:miR-651
rs1131510	chr10:35339091	CUL2:miR-574



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs34148312	chr10:35540593	CREM:miR-516-3p
rs2435355	chr10:42944839	RET:miR-602
rs28516711	chr10:46380118	SYT15:miR-654
rs59292693	chr10:46380675	SYT15:miR-485-5p
rs59292693	chr10:46380675	SYT15:let-7e
rs3120443	chr10:46380905	SYT15:miR-340
rs11324995	chr10:46380927	SYT15:miR-577
rs4253074	chr10:50393323	PGBD3:miR-606
rs7084674	chr10:59798813	UBE2D1:miR-33
rs2893808	chr10:61081698	SLC16A9:miR-191
rs35537819	chr10:61221122	CCDC6:miR-499
rs34992845	chr10:61221124	CCDC6:miR-499
rs1063825	chr10:61222284	CCDC6:miR-24
rs11593747	chr10:61222392	CCDC6:miR-32
rs11593747	chr10:61222392	CCDC6:miR-363
rs10994151	chr10:61459341	ANK3:miR-135a
rs10994151	chr10:61459341	ANK3:miR-135b
rs10994151	chr10:61459341	ANK3:miR-578
rs10994151	chr10:61459341	ANK3:miR-643
rs7088302	chr10:63626704	PLEKHK1:miR-597
rs11325764	chr10:64242044	EGR2:miR-140
rs1042413	chr10:64242377	EGR2:miR-374
rs34971101	chr10:64242523	EGR2:miR-223
rs1042410	chr10:64242530	EGR2:miR-511
rs2539	chr10:64584533	NRBF2:miR-154
rs2539	chr10:64584533	NRBF2:miR-453
rs15871	chr10:65050784	REEP3:miR-577
rs34131426	chr10:65051408	REEP3:miR-522
rs59457804	chr10:69346428	SIRT1:miR-30a-5p
rs59457804	chr10:69346428	SIRT1:miR-30b
rs59457804	chr10:69346428	SIRT1:miR-30c
rs59457804	chr10:69346428	SIRT1:miR-30d
rs59457804	chr10:69346428	SIRT1:miR-30e-5p
rs4746720	chr10:69346836	SIRT1:miR-561
rs35094409	chr10:69347773	SIRT1:miR-609
rs35791720	chr10:69348061	SIRT1:miR-768-5p
rs1673	chr10:69641338	MYPN:miR-651
rs1162756	chr10:69772942	HNRPH3:miR-128a
rs1162756	chr10:69772942	HNRPH3:miR-128b
rs7898773	chr10:70221054	CCAR1:miR-29a
rs7898773	chr10:70221054	CCAR1:miR-29b
rs7898773	chr10:70221054	CCAR1:miR-29c
rs13376784	chr10:70601175	VPS26A:miR-372
rs13376784	chr10:70601175	VPS26A:miR-93
rs1472821	chr10:70601232	VPS26A:miR-518a
rs1472821	chr10:70601232	VPS26A:miR-518e
rs1472821	chr10:70601232	VPS26A:miR-518f
rs1472821	chr10:70601232	VPS26A:miR-518b
rs1472821	chr10:70601232	VPS26A:miR-518c
rs1472821	chr10:70601232	VPS26A:miR-518d
rs14578	chr10:70602515	VPS26A:miR-19a
rs14578	chr10:70602515	VPS26A:miR-19b

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs10740336	chr10:71731085	LRRC20:miR-623
rs10740336	chr10:71731085	LRRC20:miR-502
rs3034645	chr10:71998174	KIAA1274:miR-568
rs10390	chr10:73246110	PSAP:miR-589
rs11555022	chr10:73246110	PSAP:miR-589
rs59472992	chr10:73488910	SPOCK2:miR-425-5p
rs60489647	chr10:74867165	PPP3CB:miR-31
rs41306522	chr10:74867925	PPP3CB:miR-223
rs34869528	chr10:74867978	PPP3CB:miR-299-3p
rs16930885	chr10:75201860	SEC24C:miR-185
rs11817848	chr10:75201871	SEC24C:miR-559
rs12569766	chr10:75231496	KIAA0913:miR-365
rs13013	chr10:75232167	NDST2:miR-492
rs11539661	chr10:75242427	CAMK2G:miR-140
rs2384389	chr10:75243278	CAMK2G:miR-658
rs2306327	chr10:75243784	CAMK2G:miR-384
rs36124091	chr10:75548974	VCL:miR-187
rs12263058	chr10:76461040	MYST4:miR-568
rs41305010	chr10:76461521	MYST4:miR-515-5p
rs41305010	chr10:76461521	MYST4:miR-519e*
rs35536583	chr10:76524502	DUSP13:miR-661
rs3088142	chr10:76524570	DUSP13:miR-600
rs1804198	chr10:76660944	VDAC2:miR-103
rs1804198	chr10:76660944	VDAC2:miR-107
rs1259502	chr10:76661106	VDAC2:miR-340
rs57460907	chr10:78299789	KCNMA1:miR-599
rs57460907	chr10:78299789	KCNMA1:miR-594
rs964	chr10:79220633	DLG5:miR-605
rs34373184	chr10:79221868	DLG5:miR-105
rs16937126	chr10:80812952	C10orf56:miR-335
rs58896019	chr10:82396215	SH2D4B:miR-452
rs17107469	chr10:82396227	SH2D4B:miR-199a*
rs12783710	chr10:82396254	SH2D4B:miR-143
rs11550183	chr10:85902165	GHITM:miR-558
rs34683871	chr10:88185931	WAPAL:miR-381
rs34285032	chr10:88186154	WAPAL:miR-369-3p
rs10639405	chr10:88186155	WAPAL:miR-369-3p
rs33920563	chr10:88186156	WAPAL:miR-369-3p
rs7069799	chr10:88187157	WAPAL:miR-548c
rs45601731	chr10:88482886	LDB3:miR-19a
rs45601731	chr10:88482886	LDB3:miR-19b
rs35222021	chr10:88484613	LDB3:miR-191
rs11202142	chr10:88485614	LDB3:miR-320
rs11202142	chr10:88485614	LDB3:miR-9*
rs3895069	chr10:89715434	PTEN:miR-202
rs1044492	chr10:89715712	PTEN:miR-136
rs1530281	chr10:90673104	STAMBPL1:miR-648
rs3832648	chr10:92491648	HTR7:miR-10a
rs3832648	chr10:92491648	HTR7:miR-10b
rs56288532	chr10:92491653	HTR7:miR-10a
rs56288532	chr10:92491653	HTR7:miR-10b
rs57675875	chr10:92491841	HTR7:miR-544

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs11186355	chr10:92651039	RPP30:miR-28
rs11541126	chr10:93033831	PCGF5:miR-577
rs11541126	chr10:93033831	PCGF5:miR-559
rs58530579	chr10:93263813	HECTD2:miR-34a
rs58530579	chr10:93263813	HECTD2:miR-34c
rs58530579	chr10:93263813	HECTD2:miR-449
rs58530579	chr10:93263813	HECTD2:miR-449b
rs58530579	chr10:93263813	HECTD2:miR-34b
rs11186597	chr10:93264351	HECTD2:miR-609
rs45556637	chr10:93800792	CPEB3:miR-520g
rs45556637	chr10:93800792	CPEB3:miR-520h
rs45556637	chr10:93800792	CPEB3:miR-106a
rs45556637	chr10:93800792	CPEB3:miR-106b
rs45556637	chr10:93800792	CPEB3:miR-17-5p
rs45556637	chr10:93800792	CPEB3:miR-20a
rs45556637	chr10:93800792	CPEB3:miR-20b
rs45556637	chr10:93800792	CPEB3:miR-302a
rs45556637	chr10:93800792	CPEB3:miR-302b
rs45556637	chr10:93800792	CPEB3:miR-302c
rs45556637	chr10:93800792	CPEB3:miR-302d
rs45556637	chr10:93800792	CPEB3:miR-373
rs45556637	chr10:93800792	CPEB3:miR-520a
rs45556637	chr10:93800792	CPEB3:miR-520b
rs45556637	chr10:93800792	CPEB3:miR-520c
rs45556637	chr10:93800792	CPEB3:miR-520d
rs45556637	chr10:93800792	CPEB3:miR-520e
rs45556637	chr10:93800792	CPEB3:miR-526b*
rs17107567	chr10:94101781	MARCH5:miR-501
rs34266748	chr10:94203768	IDE:miR-382
rs3814155	chr10:97062308	SORBS1:miR-577
rs3181116	chr10:97617647	ENTPD1:miR-587
rs35222583	chr10:98114457	TLL2:miR-32
rs12263129	chr10:98271682	SMBP:miR-105
rs12263129	chr10:98271682	SMBP:miR-302a
rs12263129	chr10:98271682	SMBP:miR-302b
rs12263129	chr10:98271682	SMBP:miR-302c
rs12263129	chr10:98271682	SMBP:miR-302d
rs12263129	chr10:98271682	SMBP:miR-373
rs12263129	chr10:98271682	SMBP:miR-520a
rs12263129	chr10:98271682	SMBP:miR-520b
rs12263129	chr10:98271682	SMBP:miR-520c
rs12263129	chr10:98271682	SMBP:miR-520d
rs12263129	chr10:98271682	SMBP:miR-520e
rs12263129	chr10:98271682	SMBP:miR-526b*
rs3740518	chr10:99082362	FRAT2:miR-768-5p
rs2861951	chr10:99183154	PGAM1:miR-583
rs28364829	chr10:99423528	PI4KII:miR-629
rs1046249	chr10:99425720	PI4KII:miR-425-5p
rs11592057	chr10:101142181	CNNM1:miR-635
rs11592057	chr10:101142181	CNNM1:miR-380-5p
rs1802213	chr10:101462244	COX15:miR-338
rs11557932	chr10:102114194	SCD:miR-302a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs11557932	chr10:102114194	SCD:miR-302b
rs11557932	chr10:102114194	SCD:miR-302c
rs11557932	chr10:102114194	SCD:miR-302d
rs11557932	chr10:102114194	SCD:miR-373
rs11557932	chr10:102114194	SCD:miR-520a
rs11557932	chr10:102114194	SCD:miR-520b
rs11557932	chr10:102114194	SCD:miR-520c
rs11557932	chr10:102114194	SCD:miR-520d
rs11557932	chr10:102114194	SCD:miR-520e
rs11557932	chr10:102114194	SCD:miR-526b*
rs11557932	chr10:102114194	SCD:miR-106a
rs11557932	chr10:102114194	SCD:miR-106b
rs11557932	chr10:102114194	SCD:miR-17-5p
rs11557932	chr10:102114194	SCD:miR-20a
rs11557932	chr10:102114194	SCD:miR-20b
rs11557932	chr10:102114194	SCD:miR-520g
rs11557932	chr10:102114194	SCD:miR-520h
rs11557932	chr10:102114194	SCD:miR-373*
rs15019	chr10:102114197	SCD:miR-373*
rs11557931	chr10:102114212	SCD:miR-578
rs1135170	chr10:102578873	PAX2:miR-368
rs11190719	chr10:102579324	PAX2:miR-642
rs11190773	chr10:102712418	C10orf6:miR-199a
rs11190773	chr10:102712418	C10orf6:miR-199b
rs34928771	chr10:102712639	C10orf6:miR-130a
rs34928771	chr10:102712639	C10orf6:miR-130b
rs34928771	chr10:102712639	C10orf6:miR-301
rs34928771	chr10:102712639	C10orf6:miR-454-3p
rs11190774	chr10:102714851	C10orf6:miR-633
rs60622673	chr10:102714851	C10orf6:miR-633
rs722435	chr10:102735052	SEMA4G:miR-125a
rs722435	chr10:102735052	SEMA4G:miR-125b
rs722435	chr10:102735052	SEMA4G:miR-149
rs35875591	chr10:103303947	BTRC:miR-32
rs2028926	chr10:103597094	C10orf76:miR-154
rs2028926	chr10:103597094	C10orf76:miR-219
rs17847381	chr10:103899933	PPRC1:miR-548c
rs11558772	chr10:104132476	GBF1:miR-768-5p
rs11558772	chr10:104132476	GBF1:miR-146a
rs11558772	chr10:104132476	GBF1:miR-146b
rs11551830	chr10:104383038	SUFU:miR-548c
rs3184159	chr10:104565974	C10orf26:miR-27a
rs3184159	chr10:104565974	C10orf26:miR-27b
rs57707166	chr10:105138640	TAF5:miR-595
rs59729564	chr10:108324167	SORCS1:miR-507
rs59729564	chr10:108324167	SORCS1:miR-500
rs34154255	chr10:108326704	SORCS1:miR-383
rs16448	chr10:112034833	MXI1:miR-583
rs14401	chr10:112035161	MXI1:miR-579
rs5787845	chr10:112035935	MXI1:miR-422a
rs2233938	chr10:112043876	SMNDC1:miR-143
rs5787876	chr10:112647907	PDCD4:miR-581

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs13306145	chr10:112829989	ADRA2A:miR-135a
rs13306145	chr10:112829989	ADRA2A:miR-135b
rs2290963	chr10:114180281	ZDHHC6:miR-600
rs2290964	chr10:114180282	ZDHHC6:miR-600
rs238739	chr10:115795379	ADRB1:miR-30a-5p
rs238739	chr10:115795379	ADRB1:miR-30b
rs238739	chr10:115795379	ADRB1:miR-30c
rs238739	chr10:115795379	ADRB1:miR-30d
rs238739	chr10:115795379	ADRB1:miR-30e-5p
rs17875447	chr10:115796488	ADRB1:miR-548c
rs17875447	chr10:115796488	ADRB1:miR-577
rs17875447	chr10:115796488	ADRB1:miR-559
rs35807494	chr10:115873510	C10orf118:miR-141
rs35807494	chr10:115873510	C10orf118:miR-200a
rs35807494	chr10:115873510	C10orf118:miR-429
rs12243048	chr10:117695973	ATRNL1:miR-361
rs886981	chr10:117813810	GFRA1:miR-151
rs1052959	chr10:117813861	GFRA1:miR-511
rs41284400	chr10:119755562	RAB11FIP2:miR-424
rs14085	chr10:121579566	C10orf119:miR-30a-5p
rs14085	chr10:121579566	C10orf119:miR-30b
rs14085	chr10:121579566	C10orf119:miR-30c
rs14085	chr10:121579566	C10orf119:miR-30d
rs14085	chr10:121579566	C10orf119:miR-30e-5p
rs41294351	chr10:123228892	FGFR2:miR-181b
rs41294351	chr10:123228892	FGFR2:miR-181d
rs41294349	chr10:123228976	FGFR2:miR-338
rs41294349	chr10:123228976	FGFR2:miR-770-5p
rs3135825	chr10:123229040	FGFR2:miR-126*
rs3763763	chr10:124003594	TACC2:miR-363
rs3802703	chr10:126298673	FAM53B:miR-520d*
rs1058510	chr10:126667068	CTBP2:miR-455
rs1058498	chr10:126667192	CTBP2:miR-655
rs35684967	chr10:126667457	CTBP2:miR-129
rs58739132	chr10:126667457	CTBP2:miR-129
rs7918847	chr10:129773946	PTPRE:miR-656
rs11422191	chr10:131524852	EBF3:miR-373*
rs11422191	chr10:131524852	EBF3:miR-559
rs11422191	chr10:131524852	EBF3:miR-577
rs33925059	chr10:131524853	EBF3:miR-559
rs33925059	chr10:131524853	EBF3:miR-577
rs11390227	chr10:131524855	EBF3:miR-559
rs11390227	chr10:131524855	EBF3:miR-577
rs34059138	chr10:131524856	EBF3:miR-577
rs34107887	chr10:131525672	EBF3:miR-30a-3p
rs34107887	chr10:131525672	EBF3:miR-30e-3p
rs34107887	chr10:131525672	EBF3:miR-145
rs35382542	chr10:134445745	INPP5A:miR-548d
rs34343982	chr10:134445746	INPP5A:miR-548d
rs1050401	chr11:754964	TALDO1:miR-383
rs10798	chr11:2826741	KCNQ1:miR-23a
rs10798	chr11:2826741	KCNQ1:miR-23b

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1052593	chr11:2861449	CDKN1C:miR-129
rs13563	chr11:2861576	CDKN1C:miR-153
rs1050554	chr11:2922281	NAP1L4:miR-568
rs36088476	chr11:3690010	NUP98:miR-32
rs3177020	chr11:4116675	RRM1:miR-613
rs2723636	chr11:6426633	TRIM3:miR-484
rs1802921	chr11:6454460	ARFIP2:miR-204
rs1802921	chr11:6454460	ARFIP2:miR-211
rs1802923	chr11:6454502	ARFIP2:miR-368
rs1802923	chr11:6454502	ARFIP2:miR-765
rs2555171	chr11:6592213	TPP1:miR-103
rs2555171	chr11:6592213	TPP1:miR-107
rs4586135	chr11:7444751	SYT9:miR-185
rs3282	chr11:7446737	SYT9:miR-767-3p
rs5789521	chr11:7446786	SYT9:miR-650
rs1055233	chr11:8084071	TUB:miR-320
rs1055233	chr11:8084071	TUB:miR-548a
rs1055233	chr11:8084071	TUB:miR-146a
rs1055233	chr11:8084071	TUB:miR-146b
rs35044261	chr11:8925455	TMEM9B:miR-583
rs35440828	chr11:10285319	ADM:miR-144
rs4698	chr11:10285343	ADM:miR-181b
rs4698	chr11:10285343	ADM:miR-181d
rs56724376	chr11:10490277	RNF141:miR-656
rs11929	chr11:10775409	EIF4G2:miR-484
rs63659660	chr11:11934362	USP47:miR-324-3p
rs56146067	chr11:11937422	USP47:miR-545
rs11022392	chr11:12507973	PARVA:miR-186
rs34557626	chr11:14256304	RRAS2:miR-325
rs11023803	chr11:15948895	SOX6:miR-18a
rs11023803	chr11:15948895	SOX6:miR-18b
rs34853590	chr11:15950262	SOX6:miR-409-3p
rs34014906	chr11:17064736	PIK3C2A:miR-582
rs11540752	chr11:17065098	PIK3C2A:miR-302b*
rs1042876	chr11:17309598	NUCB2:miR-143
rs5211	chr11:17364870	KCNJ11:miR-657
rs1042806	chr11:17700158	MYOD1:miR-767-5p
rs1042806	chr11:17700158	MYOD1:miR-220
rs2291754	chr11:18458594	TSG101:miR-590
rs56244714	chr11:18681021	TMEM86A:miR-483
rs56244714	chr11:18681021	TMEM86A:miR-24
rs8526	chr11:20099470	NAV2:miR-186
rs1979073	chr11:22356845	SLC17A6:miR-656
rs3195814	chr11:22790999	GAS2:miR-139
rs3195814	chr11:22790999	GAS2:miR-17-3p
rs11029982	chr11:27344267	LGR4:miR-584
rs16917051	chr11:27474699	LIN7C:miR-218
rs7124665	chr11:27633663	BDNF:miR-524*
rs41282918	chr11:27635356	BDNF:miR-589
rs12417138	chr11:30389155	MPPED2:miR-570
rs5030327	chr11:32366082	WT1:miR-503
rs10835909	chr11:32417962	WIT1:miR-589

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1802363	chr11:32580433	CCDC73:miR-199a*
rs1802362	chr11:32580490	CCDC73:miR-570
rs35682114	chr11:32955930	QSER1:miR-583
rs8191	chr11:34076803	GPIAP1:miR-501
rs8191	chr11:34076803	GPIAP1:miR-30a-5p
rs8191	chr11:34076803	GPIAP1:miR-30b
rs8191	chr11:34076803	GPIAP1:miR-30c
rs8191	chr11:34076803	GPIAP1:miR-30d
rs8191	chr11:34076803	GPIAP1:miR-30e-5p
rs59577652	chr11:34129117	ABTB2:miR-569
rs286890	chr11:34637210	EHF:miR-142-3p
rs286890	chr11:34637210	EHF:miR-369-5p
rs55734498	chr11:35229492	SLC1A2:miR-9*
rs55734498	chr11:35229492	SLC1A2:miR-610
rs16927202	chr11:35238800	SLC1A2:miR-552
rs1570216	chr11:35238910	SLC1A2:miR-30a-5p
rs1570216	chr11:35238910	SLC1A2:miR-30b
rs1570216	chr11:35238910	SLC1A2:miR-30c
rs1570216	chr11:35238910	SLC1A2:miR-30d
rs1570216	chr11:35238910	SLC1A2:miR-30e-5p
rs10551096	chr11:35598852	FJX1:miR-18a
rs10551096	chr11:35598852	FJX1:miR-18b
rs10551096	chr11:35598852	FJX1:miR-559
rs34319421	chr11:35598856	FJX1:miR-559
rs34319421	chr11:35598856	FJX1:miR-589
rs4151045	chr11:36556808	RAG1:miR-361
rs4151048	chr11:36557260	RAG1:miR-548c
rs1056535	chr11:43322573	API5:miR-527
rs1043746	chr11:45861320	CRY2:miR-625
rs7928628	chr11:46835006	LRP4:miR-9*
rs7928628	chr11:46835006	LRP4:miR-610
rs14895	chr11:46835112	LRP4:miR-32
rs11551406	chr11:47139649	C11orf49:miR-650
rs1055824	chr11:47142505	ZNF289:miR-198
rs1058418	chr11:48145778	PTPRJ:miR-516-3p
rs10633679	chr11:57224462	ZDHHC5:miR-656
rs34110973	chr11:57224463	ZDHHC5:miR-656
rs947887	chr11:57227825	MED19:miR-32
rs947887	chr11:57227825	MED19:miR-363
rs11570227	chr11:57340387	CTNND1:miR-519a
rs11570227	chr11:57340387	CTNND1:miR-519b
rs11570227	chr11:57340387	CTNND1:miR-519c
rs1057299	chr11:57341354	CTNND1:miR-9
rs708228	chr11:57342238	CTNND1:miR-593
rs708228	chr11:57342238	CTNND1:miR-624
rs1802998	chr11:57342349	CTNND1:miR-518c*
rs633713	chr11:58141817	ZFP91:miR-511
rs2509925	chr11:58143533	ZFP91:miR-545
rs1938588	chr11:58650643	FAM111B:miR-511
rs1938588	chr11:58650643	FAM111B:miR-375
rs14569	chr11:58732159	DTX4:miR-511
rs498077	chr11:59325778	STX3A:miR-516-5p

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs12790380	chr11:59326713	STX3A:miR-142-5p
rs12790380	chr11:59326713	STX3A:miR-182
rs61903590	chr11:59326742	STX3A:miR-381
rs3209377	chr11:60823979	DDB1:miR-548c
rs1058021	chr11:60926820	FLJ12529:miR-361
rs1052603	chr11:61488778	VMD2:miR-9*
rs11554851	chr11:61488856	VMD2:miR-31
rs1050059	chr11:62040026	AHNAK:miR-106a
rs1050059	chr11:62040026	AHNAK:miR-106b
rs1050059	chr11:62040026	AHNAK:miR-17-5p
rs1050059	chr11:62040026	AHNAK:miR-20a
rs1050059	chr11:62040026	AHNAK:miR-20b
rs1050059	chr11:62040026	AHNAK:miR-372
rs1050059	chr11:62040026	AHNAK:miR-93
rs1058684	chr11:62117349	MTA2:miR-146a
rs1058684	chr11:62117349	MTA2:miR-146b
rs60928821	chr11:62117539	MTA2:miR-150
rs1053384	chr11:63521655	OTUB1:miR-493-5p
rs14788	chr11:63728456	STIP1:miR-548d
rs3839959	chr11:63728466	STIP1:miR-577
rs3839959	chr11:63728466	STIP1:miR-488
rs34502085	chr11:63728474	STIP1:miR-18a*
rs3193820	chr11:63768629	PPP1R14B:miR-605
rs3204919	chr11:63840597	ESRRA:miR-34b
rs3204919	chr11:63840597	ESRRA:let-7a
rs3204919	chr11:63840597	ESRRA:let-7b
rs3204919	chr11:63840597	ESRRA:let-7c
rs3204919	chr11:63840597	ESRRA:let-7d
rs3204919	chr11:63840597	ESRRA:let-7f
rs3204919	chr11:63840597	ESRRA:let-7g
rs3204919	chr11:63840597	ESRRA:let-7i
rs3204919	chr11:63840597	ESRRA:miR-98
rs3204919	chr11:63840597	ESRRA:miR-650
rs3204919	chr11:63840597	ESRRA:miR-368
rs12790012	chr11:63895705	RPS6KA4:miR-641
rs1059505	chr11:64288897	SF1:miR-653
rs1061125	chr11:64313232	MAP4K2:miR-429
rs35387404	chr11:64875992	DPF2:miR-637
rs1044845	chr11:64876993	DPF2:miR-651
rs56342407	chr11:64937532	FKSG44:miR-524*
rs3832788	chr11:65320075	OVOL1:miR-577
rs496388	chr11:65320079	OVOL1:miR-577
rs496388	chr11:65320079	OVOL1:miR-559
rs34038114	chr11:65801438	RAB1B:miR-519e
rs34038114	chr11:65801438	RAB1B:miR-519d
rs34038114	chr11:65801438	RAB1B:miR-520g
rs34038114	chr11:65801438	RAB1B:miR-520h
rs1043303	chr11:65801458	RAB1B:miR-140
rs15969	chr11:66150963	RBM14:miR-650
rs56790408	chr11:66151121	RBM14:miR-345
rs61738767	chr11:67152255	NUDT8:miR-452
rs3212906	chr11:69177849	CCND1:miR-410



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs12286324	chr11:69993374	SHANK2:miR-494
rs12785927	chr11:69994723	SHANK2:miR-410
rs12785927	chr11:69994723	SHANK2:miR-374
rs12785927	chr11:69994723	SHANK2:miR-369-3p
rs12785928	chr11:69994725	SHANK2:miR-410
rs12785928	chr11:69994725	SHANK2:miR-374
rs12785928	chr11:69994725	SHANK2:miR-369-3p
rs12785973	chr11:69994794	SHANK2:miR-587
rs1055452	chr11:71385113	RNF121:miR-204
rs1055452	chr11:71385113	RNF121:miR-211
rs4466868	chr11:71486411	C11orf59:miR-509
rs1045372	chr11:72225556	FCHSD2:miR-33
rs3814729	chr11:72227134	FCHSD2:miR-448
rs3814729	chr11:72227134	FCHSD2:miR-493-5p
rs35343191	chr11:72756784	ARHGEF17:miR-337
rs35343191	chr11:72756784	ARHGEF17:miR-766
rs7941389	chr11:72757627	ARHGEF17:miR-594
rs7941389	chr11:72757627	ARHGEF17:miR-605
rs61901458	chr11:73065146	RAB6A:miR-376a*
rs11539613	chr11:73065349	RAB6A:miR-153
rs3182807	chr11:73066374	RAB6A:miR-203
rs3741142	chr11:73066522	RAB6A:miR-23a
rs3741142	chr11:73066522	RAB6A:miR-23b
rs35662648	chr11:74961445	SERPINH1:miR-568
rs59400584	chr11:75530181	UVRAG:miR-126*
rs17134603	chr11:75532712	UVRAG:miR-518c*
rs17134603	chr11:75532712	UVRAG:miR-548c
rs1044265	chr11:75939776	C11orf30:miR-382
rs17856033	chr11:77489732	ALG8:miR-189
rs9922	chr11:77604161	GAB2:miR-410
rs9922	chr11:77604161	GAB2:miR-191
rs12270560	chr11:78044896	ODZ4:miR-630
rs61900110	chr11:82845499	DLG2:miR-148a
rs35315586	chr11:82845885	DLG2:miR-149
rs11233623	chr11:82847076	DLG2:miR-196a
rs11233623	chr11:82847076	DLG2:miR-196b
rs34567508	chr11:82847801	DLG2:miR-568
rs622406	chr11:85050011	ZF:miR-548a
rs622406	chr11:85050011	ZF:miR-9*
rs34488116	chr11:85347206	PICALM:miR-613
rs36094205	chr11:85347218	PICALM:miR-632
rs61284324	chr11:85347599	PICALM:miR-205
rs15135	chr11:86334451	FZD4:miR-144
rs11235098	chr11:86711810	TMEM135:miR-569
rs3462	chr11:87881140	GRM5:miR-532
rs59997101	chr11:92267062	FAT3:miR-579
rs13447760	chr11:93790240	MRE11A:miR-559
rs11574857	chr11:93919323	FUT4:miR-23a
rs11574857	chr11:93919323	FUT4:miR-23b
rs61450330	chr11:93920992	FUT4:miR-155
rs61701647	chr11:94441282	SFRS2B:miR-187
rs1129081	chr11:95141787	FAM76B:miR-203

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs56333000	chr11:99732343	CNTN5:miR-548d
rs36028285	chr11:99732461	CNTN5:miR-605
rs488365	chr11:100369577	TMEM133:miR-101
rs488365	chr11:100369577	TMEM133:miR-139
rs35593916	chr11:100369615	TMEM133:miR-203
rs484389	chr11:100415019	PGR:miR-641
rs12999	chr11:102438167	DCUN1D5:miR-583
rs34126377	chr11:105288301	GRIA4:miR-656
rs58915339	chr11:105474472	AASDHPPT:miR-577
rs58915339	chr11:105474472	AASDHPPT:miR-559
rs58915339	chr11:105474472	AASDHPPT:miR-142-5p
rs61743188	chr11:106901521	ALKBH8:miR-544
rs61743188	chr11:106901521	ALKBH8:miR-557
rs585507	chr11:107083487	SLN:miR-145
rs7112974	chr11:107480475	CUL5:miR-509
rs34584659	chr11:107482512	CUL5:miR-499
rs3092837	chr11:107742129	ATM:miR-583
rs35138658	chr11:109541871	ZC3H12C:miR-561
rs643433	chr11:109542013	ZC3H12C:miR-589
rs4252590	chr11:111290026	HSPB2:miR-125a
rs4252590	chr11:111290026	HSPB2:miR-125b
rs1057924	chr11:112651411	NCAM1:miR-210
rs35983476	chr11:112651604	NCAM1:miR-184
rs12275130	chr11:112652087	NCAM1:miR-602
rs12275130	chr11:112652087	NCAM1:miR-496
rs12275130	chr11:112652087	NCAM1:miR-557
rs9619	chr11:113826133	REXO2:miR-448
rs15469	chr11:113826158	REXO2:miR-522
rs59374062	chr11:114550435	CADM1:miR-106a
rs59374062	chr11:114550435	CADM1:miR-106b
rs59374062	chr11:114550435	CADM1:miR-17-5p
rs59374062	chr11:114550435	CADM1:miR-20a
rs59374062	chr11:114550435	CADM1:miR-20b
rs59374062	chr11:114550435	CADM1:miR-372
rs59374062	chr11:114550435	CADM1:miR-93
rs1048876	chr11:114552104	CADM1:miR-124a
rs608176	chr11:117538999	SCN2B:miR-330
rs61900934	chr11:117774134	UBE4A:miR-145
rs1802486	chr11:117785063	ATP5L:miR-181a
rs1802486	chr11:117785063	ATP5L:miR-181c
rs9332868	chr11:117898633	MLL:miR-150
rs12422097	chr11:117976840	ARCN1:miR-599
rs45489001	chr11:117978641	ARCN1:miR-509
rs35180728	chr11:117978797	ARCN1:miR-409-3p
rs35180728	chr11:117978797	ARCN1:miR-613
rs61901394	chr11:118126196	DDX6:miR-561
rs484916	chr11:118127346	DDX6:miR-515-5p
rs484916	chr11:118127346	DDX6:miR-519e*
rs561717	chr11:118127655	DDX6:miR-768-5p
rs3782048	chr11:118272247	BCL9L:miR-644
rs7759	chr11:118472501	DPAGT1:miR-383
rs1046471	chr11:118492870	TMEM24:miR-149

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs12785779	chr11:118684521	MCAM:miR-568
rs61900003	chr11:118712580	RNF26:miR-153
rs6649	chr11:118713138	RNF26:miR-504
rs11446937	chr11:122335628	C11orf63:miR-653
rs55842997	chr11:124141882	C11orf61:miR-368
rs3763	chr11:124821071	FEZ1:miR-375
rs3763	chr11:124821071	FEZ1:miR-581
rs12420149	chr11:124959027	EI24:miR-548b
rs12420149	chr11:124959027	EI24:miR-548c
rs3737336	chr11:125335907	CDON:miR-181b
rs3737336	chr11:125335907	CDON:miR-181d
rs3781768	chr11:125638080	SRPR:miR-137
rs1049496	chr11:125789619	ST3GAL4:miR-518c*
rs1049496	chr11:125789619	ST3GAL4:miR-642
rs1128355	chr11:127834044	ETS1:miR-514
rs41302401	chr11:128186433	FLI1:miR-9
rs56126203	chr11:129609147	BTBD15:miR-9
rs11555857	chr11:131711301	HNT:miR-302b*
rs59742442	chr12:263248	JARID1A:miR-511
rs34429881	chr12:263637	JARID1A:miR-633
rs34910358	chr12:889206	WNK1:miR-492
rs34910358	chr12:889206	WNK1:miR-422a
rs11571496	chr12:890693	WNK1:miR-33
rs11571495	chr12:890767	WNK1:miR-31
rs11571493	chr12:890802	WNK1:miR-130a
rs11571493	chr12:890802	WNK1:miR-130b
rs11571493	chr12:890802	WNK1:miR-301
rs11571493	chr12:890802	WNK1:miR-454-3p
rs11571493	chr12:890802	WNK1:miR-520g
rs11571493	chr12:890802	WNK1:miR-520h
rs35187506	chr12:1768055	ADIPOR2:miR-605
rs35187506	chr12:1768055	ADIPOR2:miR-491
rs60372955	chr12:4284375	CCND2:miR-765
rs61152953	chr12:4284438	CCND2:miR-559
rs3217934	chr12:4284472	CCND2:miR-422b
rs13312800	chr12:4347998	FGF23:miR-200b
rs13312800	chr12:4347998	FGF23:miR-200c
rs13312800	chr12:4347998	FGF23:miR-429
rs61635955	chr12:4792800	KCNA6:miR-153
rs41276728	chr12:4893142	KCNA1:miR-579
rs1803110	chr12:6217510	CD9:miR-410
rs41279084	chr12:6217586	CD9:miR-186
rs1803109	chr12:6217594	CD9:miR-186
rs1803109	chr12:6217594	CD9:miR-577
rs2534716	chr12:6443977	VAMP1:miR-363*
rs1049342	chr12:6549558	CHD4:miR-140
rs11539540	chr12:6549558	CHD4:miR-140
rs4764476	chr12:6673942	C12orf53:miR-15a
rs4764476	chr12:6673942	C12orf53:miR-15b
rs4764476	chr12:6673942	C12orf53:miR-16
rs4764476	chr12:6673942	C12orf53:miR-195
rs4764476	chr12:6673942	C12orf53:miR-497

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs16932921	chr12:6798830	CD4:miR-579
rs16932921	chr12:6798830	CD4:miR-181b
rs16932921	chr12:6798830	CD4:miR-181d
rs1044632	chr12:6944873	PHB2:miR-539
rs12231823	chr12:7255235	PEX5:miR-591
rs11542242	chr12:7255263	PEX5:miR-524*
rs11542242	chr12:7255263	PEX5:miR-381
rs12579221	chr12:7965090	SLC2A3:miR-577
rs12579221	chr12:7965090	SLC2A3:miR-561
rs56872129	chr12:8818775	FAM80B:miR-330
rs56872129	chr12:8818775	FAM80B:miR-559
rs11554711	chr12:8820983	FAM80B:miR-577
rs56130437	chr12:8984268	M6PR:miR-524*
rs11052491	chr12:9739765	CLEC2D:miR-516-3p
rs16910526	chr12:10162354	CLEC7A:miR-429
rs16910526	chr12:10162354	CLEC7A:miR-656
rs1801810	chr12:10202218	OLR1:miR-653
rs1801810	chr12:10202218	OLR1:miR-570
rs1043145	chr12:10743024	CSDA:miR-559
rs15223	chr12:10743100	CSDA:miR-183
rs34166149	chr12:11935661	ETV6:miR-380-3p
rs61738409	chr12:12138961	BCL2L14:miR-331
rs12827301	chr12:12164181	LRP6:miR-495
rs12827301	chr12:12164181	LRP6:miR-495
rs12827301	chr12:12164181	LRP6:miR-495
rs12827309	chr12:12164189	LRP6:miR-495
rs61195540	chr12:12164244	LRP6:miR-568
rs61195540	chr12:12164244	LRP6:miR-522
rs61915603	chr12:12687168	CREBL2:miR-216
rs61915603	chr12:12687168	CREBL2:miR-452*
rs4555	chr12:12688139	CREBL2:miR-142-5p
rs10237	chr12:12766272	CDKN1B:miR-485-3p
rs3191064	chr12:13260841	EMP1:miR-19a
rs3191064	chr12:13260841	EMP1:miR-19b
rs1805503	chr12:13606417	GRIN2B:miR-568
rs34370668	chr12:14542472	ATF7IP:miR-151
rs11538258	chr12:14830765	WBP11:miR-493-5p
rs1802754	chr12:15641126	PTPRO:miR-767-5p
rs1043032	chr12:15947489	STRAP:miR-302c*
rs1043072	chr12:15947626	STRAP:miR-34a
rs1043072	chr12:15947626	STRAP:miR-34c
rs1043072	chr12:15947626	STRAP:miR-449
rs1043072	chr12:15947626	STRAP:miR-449b
rs1043072	chr12:15947626	STRAP:miR-34b
rs1043072	chr12:15947626	STRAP:let-7a
rs1043072	chr12:15947626	STRAP:let-7b
rs1043072	chr12:15947626	STRAP:let-7c
rs1043072	chr12:15947626	STRAP:let-7d
rs1043072	chr12:15947626	STRAP:let-7f
rs1043072	chr12:15947626	STRAP:let-7g
rs1043072	chr12:15947626	STRAP:let-7i
rs1043072	chr12:15947626	STRAP:miR-98

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1043072	chr12:15947626	STRAP:miR-650
rs35048756	chr12:19562405	AEBP2:miR-648
rs11834998	chr12:19564184	AEBP2:miR-570
rs13035	chr12:21514389	FLJ22028:miR-409-3p
rs34674091	chr12:21562349	GOLT1B:miR-519d
rs7606	chr12:22109834	CMAS:miR-187
rs61921401	chr12:22492947	KIAA0528:miR-1
rs61921401	chr12:22492947	KIAA0528:miR-206
rs61921401	chr12:22492947	KIAA0528:miR-380-3p
rs58278175	chr12:24859410	BCAT1:miR-1
rs58278175	chr12:24859410	BCAT1:miR-206
rs61764374	chr12:25249685	KRAS:miR-568
rs61764373	chr12:25249689	KRAS:miR-568
rs1141947	chr12:25253689	KRAS:miR-509
rs712	chr12:25253819	KRAS:miR-768-5p
rs6252	chr12:28002340	PTHLH:miR-429
rs6251	chr12:28002502	PTHLH:miR-15a
rs6251	chr12:28002502	PTHLH:miR-15b
rs6251	chr12:28002502	PTHLH:miR-16
rs6251	chr12:28002502	PTHLH:miR-195
rs6251	chr12:28002502	PTHLH:miR-497
rs6249	chr12:28002503	PTHLH:miR-15a
rs6249	chr12:28002503	PTHLH:miR-15b
rs6249	chr12:28002503	PTHLH:miR-16
rs6249	chr12:28002503	PTHLH:miR-195
rs6249	chr12:28002503	PTHLH:miR-497
rs34973493	chr12:28594252	CCDC91:miR-569
rs4931197	chr12:29546882	TMTC1:miR-9
rs1063983	chr12:30674575	IPO8:miR-376a
rs1063983	chr12:30674575	IPO8:miR-376b
rs1063983	chr12:30674575	IPO8:miR-513
rs11051005	chr12:30674742	IPO8:miR-548b
rs11051005	chr12:30674742	IPO8:miR-548c
rs4015571	chr12:31326310	FAM60A:miR-373*
rs4015571	chr12:31326310	FAM60A:miR-616
rs11833865	chr12:31712283	MGC50559:miR-181b
rs11833865	chr12:31712283	MGC50559:miR-181d
rs12698	chr12:31715711	LOC196394:miR-579
rs1295	chr12:32037154	C12orf35:miR-181b
rs1295	chr12:32037154	C12orf35:miR-181d
rs7952795	chr12:37006953	ALG10B:miR-542-3p
rs11461823	chr12:37007203	ALG10B:miR-600
rs12425956	chr12:37007235	ALG10B:miR-377
rs12425956	chr12:37007235	ALG10B:miR-342
rs17125597	chr12:37332812	CPNE8:miR-578
rs12308044	chr12:37333187	CPNE8:miR-27a
rs12308044	chr12:37333187	CPNE8:miR-27b
rs12426280	chr12:38438218	SLC2A13:miR-506
rs35680052	chr12:38439787	SLC2A13:miR-583
rs11461565	chr12:40764057	GLT8D3:miR-641
rs2131213	chr12:40766882	GLT8D3:let-7e
rs17224177	chr12:40767710	GLT8D3:miR-200b

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs17224177	chr12:40767710	GLT8D3:miR-200c
rs17224177	chr12:40767710	GLT8D3:miR-429
rs2290539	chr12:40839486	YAF2:miR-522
rs12227395	chr12:41128411	PPHLN1:miR-514
rs7302676	chr12:43188531	NELL2:miR-493-5p
rs7418	chr12:46463059	HDAC7A:miR-202*
rs57061363	chr12:46463491	HDAC7A:miR-147
rs11539602	chr12:47682648	PRKAG1:miR-383
rs35891250	chr12:47701354	MLL2:miR-631
rs59990555	chr12:48012593	C1QL4:miR-513
rs3751214	chr12:48323748	FMNL3:miR-135a
rs3751214	chr12:48323748	FMNL3:miR-135b
rs8987	chr12:48669417	RACGAP1:miR-527
rs34724560	chr12:48670167	RACGAP1:miR-584
rs41291985	chr12:48761973	ACCN2:miR-650
rs1051497	chr12:48762753	ACCN2:miR-552
rs36125542	chr12:48780354	SMARCD1:miR-223
rs34307147	chr12:48780369	SMARCD1:miR-650
rs34307147	chr12:48780369	SMARCD1:miR-491
rs57615143	chr12:48809877	LASS5:miR-495
rs57615143	chr12:48809877	LASS5:miR-199a*
rs57615143	chr12:48809877	LASS5:miR-633
rs891	chr12:49923625	DAZAP2:miR-145
rs1140398	chr12:49923814	DAZAP2:miR-607
rs3741705	chr12:50488291	SCN8A:miR-508
rs3741705	chr12:50488291	SCN8A:miR-186
rs1042473	chr12:50739505	NR4A1:miR-383
rs7961997	chr12:51720311	EIF4B:miR-185
rs11542590	chr12:51720551	EIF4B:miR-23a
rs11542590	chr12:51720551	EIF4B:miR-23b
rs5798238	chr12:51890815	RARG:miR-326
rs5798239	chr12:51890837	RARG:miR-331
rs5798239	chr12:51890837	RARG:miR-518c*
rs34603874	chr12:51891024	RARG:miR-339
rs4790	chr12:52159633	PCBP2:miR-363*
rs55730102	chr12:52159734	PCBP2:miR-610
rs11362454	chr12:52735799	HOXC4:miR-150
rs11554014	chr12:52735990	HOXC4:miR-376a*
rs11554014	chr12:52735990	HOXC4:miR-26a
rs11554014	chr12:52735990	HOXC4:miR-26b
rs13514	chr12:53049494	ZNF385:miR-658
rs4357739	chr12:53049712	ZNF385:miR-372
rs4357739	chr12:53049712	ZNF385:miR-93
rs10783631	chr12:53259110	PDE1B:miR-519a
rs10783631	chr12:53259110	PDE1B:miR-519b
rs10783631	chr12:53259110	PDE1B:miR-519c
rs17118024	chr12:54501188	ORMDL2:miR-324-3p
rs17118024	chr12:54501188	ORMDL2:miR-189
rs3208548	chr12:54633972	DGKA:miR-608
rs1050205	chr12:54673091	RAB5B:miR-18a
rs1050205	chr12:54673091	RAB5B:miR-18b
rs1050206	chr12:54673093	RAB5B:miR-18a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1050206	chr12:54673093	RAB5B:miR-18b
rs1050209	chr12:54673166	RAB5B:miR-448
rs11673	chr12:54674599	RAB5B:miR-383
rs11673	chr12:54674599	RAB5B:miR-548a
rs35866089	chr12:54716504	IKZF4:miR-650
rs4016501	chr12:54797857	RPL41:miR-503
rs4016502	chr12:54797861	RPL41:miR-503
rs4016502	chr12:54797861	RPL41:miR-570
rs4847	chr12:54841585	MYL6:miR-598
rs57290094	chr12:54885549	RNF41:miR-583
rs12815735	chr12:54919270	ANKRD52:miR-296
rs2935008	chr12:55131237	MIP:miR-328
rs1135141	chr12:55275994	BAZ2A:miR-140
rs35101794	chr12:55275997	BAZ2A:miR-140
rs15258	chr12:55343761	PTGES3:miR-577
rs35314745	chr12:55934137	R3HDM2:miR-583
rs7309842	chr12:55934213	R3HDM2:miR-539
rs1054519	chr12:56196655	DDIT3:miR-224
rs1054519	chr12:56196655	MARS:miR-573
rs35831868	chr12:56306627	B4GALNT1:miR-597
rs1801928	chr12:56500849	CTDSP2:miR-198
rs11555554	chr12:56500897	CTDSP2:miR-671
rs12313937	chr12:60389816	FAM19A2:miR-643
rs61921870	chr12:61084764	USP15:miR-338
rs3825301	chr12:61084824	USP15:miR-219
rs11174462	chr12:61085668	USP15:miR-655
rs11174462	chr12:61085668	USP15:miR-369-3p
rs11174462	chr12:61085668	USP15:miR-374
rs12319634	chr12:62239448	DPY19L2:miR-429
rs12319634	chr12:62239448	DPY19L2:miR-656
rs41292029	chr12:63181469	TBK1:miR-578
rs17100600	chr12:63394798	GNS:miR-620
rs11175698	chr12:63927528	LEMD3:miR-517a
rs11175698	chr12:63927528	LEMD3:miR-517c
rs12304180	chr12:63928007	LEMD3:miR-7
rs11175699	chr12:63928323	LEMD3:miR-542-3p
rs11324467	chr12:64143931	MSRB3:miR-302c*
rs17847167	chr12:64644068	HMGA2:miR-370
rs56788643	chr12:64644602	HMGA2:let-7a
rs56788643	chr12:64644602	HMGA2:let-7b
rs56788643	chr12:64644602	HMGA2:let-7c
rs56788643	chr12:64644602	HMGA2:let-7d
rs56788643	chr12:64644602	HMGA2:let-7f
rs56788643	chr12:64644602	HMGA2:let-7g
rs56788643	chr12:64644602	HMGA2:let-7i
rs56788643	chr12:64644602	HMGA2:miR-98
rs34231266	chr12:64644813	HMGA2:miR-653
rs17847170	chr12:64645450	HMGA2:miR-24
rs1042741	chr12:64645530	HMGA2:miR-765
rs1042742	chr12:64645531	HMGA2:miR-765
rs3741645	chr12:66339084	DYRK2:miR-514
rs2069734	chr12:66835277	IFNG:miR-382

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs542403	chr12:68257534	FRS2:miR-202
rs61759374	chr12:68258319	FRS2:miR-655
rs61759449	chr12:68258936	FRS2:miR-591
rs61759450	chr12:68259051	FRS2:miR-561
rs61759451	chr12:68259183	FRS2:miR-96
rs61759451	chr12:68259183	FRS2:miR-571
rs503881	chr12:68259471	FRS2:miR-569
rs10506567	chr12:68281593	CCT2:miR-153
rs61929939	chr12:69034608	CNOT2:miR-34a
rs61929939	chr12:69034608	CNOT2:miR-34c
rs61929939	chr12:69034608	CNOT2:miR-449
rs61929939	chr12:69034608	CNOT2:miR-449b
rs61929939	chr12:69034608	CNOT2:miR-612
rs12813359	chr12:69034753	CNOT2:miR-202
rs11837486	chr12:70289690	PSRC2:miR-200b
rs11837486	chr12:70289690	PSRC2:miR-200c
rs11178944	chr12:70465881	RAB21:miR-96
rs59148072	chr12:70466427	RAB21:miR-381
rs56100239	chr12:70466631	RAB21:miR-218
rs4457797	chr12:70604096	TBC1D15:miR-30a-5p
rs4457797	chr12:70604096	TBC1D15:miR-30b
rs4457797	chr12:70604096	TBC1D15:miR-30c
rs4457797	chr12:70604096	TBC1D15:miR-30d
rs4457797	chr12:70604096	TBC1D15:miR-30e-5p
rs11541035	chr12:74728035	NAP1L1:miR-224
rs11541036	chr12:74728041	NAP1L1:miR-224
rs11541040	chr12:74728087	NAP1L1:miR-422a
rs35860567	chr12:75771499	ZDHHC17:miR-425-5p
rs3803038	chr12:77129672	NAV3:miR-592
rs3803039	chr12:77129759	NAV3:miR-516-3p
rs3803039	chr12:77129759	NAV3:miR-518a
rs3803039	chr12:77129759	NAV3:miR-518e
rs3803039	chr12:77129759	NAV3:miR-518f
rs11114244	chr12:78692998	PPP1R12A:miR-589
rs11114244	chr12:78692998	PPP1R12A:miR-369-3p
rs11104904	chr12:87411855	KITLG:miR-335
rs11104904	chr12:87411855	KITLG:miR-424
rs41309409	chr12:87412471	KITLG:miR-203
rs41300072	chr12:87412826	KITLG:miR-369-3p
rs41300046	chr12:87412847	KITLG:miR-562
rs41300046	chr12:87412847	KITLG:miR-646
rs1059400	chr12:88266499	DUSP6:miR-501
rs28399547	chr12:91061069	BTG1:miR-185
rs13599	chr12:91061508	BTG1:miR-372
rs13599	chr12:91061508	BTG1:miR-93
rs28399546	chr12:91061597	BTG1:miR-802
rs11404900	chr12:91693621	EEA1:miR-586
rs11404900	chr12:91693621	EEA1:miR-33b
rs34704075	chr12:92327675	UBE2N:miR-625
rs1053642	chr12:92494062	SOCS2:miR-199a*
rs1053642	chr12:92494062	SOCS2:miR-194
rs34954531	chr12:94218647	VEZT:miR-30a-3p



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs34954531	chr12:94218647	VEZT:miR-30e-3p
rs11539581	chr12:94576104	NTN4:miR-33
rs11539581	chr12:94576104	NTN4:miR-33b
rs2302901	chr12:95185145	ELK3:miR-193b
rs34658440	chr12:95196536	PCTK2:miR-520g
rs34658440	chr12:95196536	PCTK2:miR-520h
rs1802615	chr12:97465882	TMPO:miR-221
rs34975028	chr12:97662284	ANKS1B:miR-569
rs34439058	chr12:97662675	ANKS1B:miR-542-3p
rs57332865	chr12:97662899	ANKS1B:miR-188
rs57332865	chr12:97662899	ANKS1B:miR-623
rs10985	chr12:97663488	ANKS1B:miR-186
rs823561	chr12:100045863	TMEM16D:miR-33
rs1043677	chr12:100664328	GNPTAB:miR-494
rs1043677	chr12:100664328	GNPTAB:miR-641
rs17032062	chr12:100839635	DRAM:miR-302a
rs17032062	chr12:100839635	DRAM:miR-302b
rs17032062	chr12:100839635	DRAM:miR-302c
rs17032062	chr12:100839635	DRAM:miR-302d
rs17032062	chr12:100839635	DRAM:miR-373
rs17032062	chr12:100839635	DRAM:miR-520a
rs17032062	chr12:100839635	DRAM:miR-520b
rs17032062	chr12:100839635	DRAM:miR-520c
rs17032062	chr12:100839635	DRAM:miR-520d
rs17032062	chr12:100839635	DRAM:miR-520e
rs17032062	chr12:100839635	DRAM:miR-526b*
rs5742714	chr12:101313982	IGF1:miR-383
rs5742710	chr12:101315432	IGF1:miR-32
rs17847185	chr12:101315843	IGF1:miR-508
rs17847185	chr12:101315843	IGF1:miR-302b*
rs3730205	chr12:101315879	IGF1:miR-584
rs3730188	chr12:101315989	IGF1:miR-568
rs3730188	chr12:101315989	IGF1:miR-142-5p
rs3730188	chr12:101315989	IGF1:miR-559
rs17884961	chr12:101316308	IGF1:miR-136
rs35234844	chr12:101319091	IGF1:miR-204
rs35234844	chr12:101319091	IGF1:miR-211
rs3730223	chr12:101319491	IGF1:miR-410
rs3730210	chr12:101319573	IGF1:miR-190
rs5031032	chr12:101320262	IGF1:miR-613
rs61250514	chr12:101320292	IGF1:miR-574
rs5742698	chr12:101320388	IGF1:miR-597
rs61941089	chr12:101878315	ASCL1:miR-34b
rs34660835	chr12:101878317	ASCL1:miR-34b
rs61941090	chr12:101878317	ASCL1:miR-34b
rs4135143	chr12:102905248	TDG:miR-203
rs3928004	chr12:102906517	TDG:miR-199a*
rs2468333	chr12:103036530	NFYB:miR-519a
rs2468333	chr12:103036530	NFYB:miR-519b
rs2468333	chr12:103036530	NFYB:miR-519c
rs1044607	chr12:104086842	KIAA1033:miR-574
rs1044607	chr12:104086842	KIAA1033:miR-105

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs59421277	chr12:104981605	NUAK1:miR-648
rs12828319	chr12:105264818	TCP11L2:miR-451
rs12828319	chr12:105264818	TCP11L2:miR-548d
rs3204848	chr12:105891569	C12orf23:miR-493-5p
rs1056560	chr12:105909740	CRY1:miR-219
rs703691	chr12:107440807	SART3:miR-563
rs56104339	chr12:107563154	CORO1C:miR-577
rs58019732	chr12:107828807	SVOP:miR-190
rs2241203	chr12:108475933	MMAB:miR-381
rs2241203	chr12:108475933	MMAB:miR-524*
rs55975160	chr12:108773186	GLTP:miR-548c
rs1044994	chr12:108960978	ANKRD13:miR-381
rs1042649	chr12:109268757	ATP2A2:miR-567
rs3182120	chr12:109268863	ATP2A2:miR-493-5p
rs1803736	chr12:109268904	ATP2A2:miR-520d*
rs58154880	chr12:109269294	ATP2A2:miR-548a
rs1803735	chr12:109269449	ATP2A2:miR-34a
rs1803735	chr12:109269449	ATP2A2:miR-34c
rs1803735	chr12:109269449	ATP2A2:miR-449
rs1803735	chr12:109269449	ATP2A2:miR-449b
rs1803735	chr12:109269449	ATP2A2:miR-34b
rs3415	chr12:109273140	ATP2A2:miR-651
rs9540	chr12:109273238	ATP2A2:miR-574
rs15467	chr12:109642223	PPP1CC:miR-568
rs10661	chr12:110374904	ATXN2:miR-559
rs35907313	chr12:110815335	MAPKAPK5:miR-584
rs10431388	chr12:110949014	C12orf30:miR-802
rs7295294	chr12:110949276	C12orf30:miR-769-3p
rs1985752	chr12:111431809	PTPN11:miR-496
rs1061657	chr12:113592519	TBX3:miR-186
rs12580748	chr12:113593055	TBX3:miR-561
rs11542225	chr12:114880967	THRAP2:miR-382
rs34718133	chr12:114881037	THRAP2:miR-617
rs34718133	chr12:114881037	THRAP2:miR-384
rs34607586	chr12:116375768	KSR2:miR-194
rs34607586	chr12:116375768	KSR2:miR-144
rs11313003	chr12:117072897	TAOK3:miR-515-5p
rs11313003	chr12:117072897	TAOK3:miR-519e*
rs1045542	chr12:117339815	SUDS3:miR-569
rs35654900	chr12:118608701	CIT:miR-602
rs1803429	chr12:119498993	RNF10:miR-642
rs7976497	chr12:119619850	KIAA0152:miR-607
rs11556442	chr12:119620984	KIAA0152:miR-558
rs1803508	chr12:119623915	KIAA0152:miR-575
rs1803508	chr12:119623915	KIAA0152:miR-9*
rs2071708	chr12:119645660	MGC5139:miR-630
rs11555969	chr12:119686149	SPPL3:miR-374
rs35124190	chr12:119686387	SPPL3:miR-381
rs12296508	chr12:119686577	SPPL3:miR-556
rs1653586	chr12:120159958	CAMKK2:miR-511
rs61953427	chr12:120162736	CAMKK2:miR-653
rs61953427	chr12:120162736	CAMKK2:miR-570

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs8462	chr12:120346454	RNF34:miR-589
rs1046800	chr12:121322636	RSN:miR-373*
rs35066972	chr12:122459038	SETD8:miR-493-5p
rs10744162	chr12:122809660	ATP6V0A2:miR-200b
rs10744162	chr12:122809660	ATP6V0A2:miR-200c
rs3768	chr12:123065792	ZNF664:miR-194
rs34710272	chr12:130850210	SFRS8:miR-629
rs34590303	chr12:131812750	KIAA0692:miR-524
rs34590303	chr12:131812750	KIAA0692:miR-525*
rs9889	chr13:19558472	ZNF198:miR-609
rs34490345	chr13:19558795	ZNF198:miR-382
rs34490345	chr13:19558795	ZNF198:miR-186
rs1050345	chr13:20445204	LATS2:miR-599
rs546782	chr13:21173946	FGF9:miR-511
rs546782	chr13:21173946	FGF9:miR-187
rs9509843	chr13:21174070	FGF9:miR-493-3p
rs9507304	chr13:23794237	MGC48915:miR-494
rs4300488	chr13:24719450	MTMR6:miR-573
rs34222418	chr13:27018579	LNX2:miR-154*
rs34222418	chr13:27018579	LNX2:miR-487a
rs34222418	chr13:27018579	LNX2:miR-377
rs3203071	chr13:27138772	MGC9850:miR-29a
rs3203071	chr13:27138772	MGC9850:miR-29b
rs3203071	chr13:27138772	MGC9850:miR-29c
rs3203071	chr13:27138772	MGC9850:miR-506
rs3203071	chr13:27138772	MGC9850:miR-124a
rs9554309	chr13:27765180	PAN3:miR-448
rs10507381	chr13:27766293	PAN3:miR-422a
rs58778671	chr13:27775158	FLT1:miR-518b
rs58778671	chr13:27775158	FLT1:miR-518c
rs58778671	chr13:27775158	FLT1:miR-518d
rs17073849	chr13:29237348	UBL3:miR-383
rs35457480	chr13:29238025	UBL3:miR-1
rs35457480	chr13:29238025	UBL3:miR-206
rs1058650	chr13:29238585	UBL3:miR-544
rs4385989	chr13:29239030	UBL3:miR-19a
rs4385989	chr13:29239030	UBL3:miR-19b
rs9551867	chr13:29676032	KATNAL1:miR-186
rs9551867	chr13:29676032	KATNAL1:miR-561
rs10655695	chr13:29676034	KATNAL1:miR-186
rs10655695	chr13:29676034	KATNAL1:miR-561
rs35934555	chr13:29676035	KATNAL1:miR-561
rs3493	chr13:32247368	APRIN:miR-644
rs486763	chr13:32575373	STARD13:miR-493-5p
rs9568845	chr13:32576715	STARD13:miR-130a
rs9568845	chr13:32576715	STARD13:miR-130b
rs9568845	chr13:32576715	STARD13:miR-301
rs9568845	chr13:32576715	STARD13:miR-454-3p
rs11618488	chr13:35143721	NBEA:miR-635
rs35204316	chr13:35143727	NBEA:miR-635
rs58088510	chr13:35144221	NBEA:miR-580
rs403904	chr13:35144233	NBEA:miR-532

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs403904	chr13:35144233	NBEA:miR-515-3p
rs403904	chr13:35144233	NBEA:miR-519e
rs403904	chr13:35144233	NBEA:miR-203
rs45502300	chr13:35144512	NBEA:miR-190
rs11559100	chr13:36481776	FAM48A:miR-581
rs9594185	chr13:36481812	FAM48A:miR-373*
rs945632	chr13:36575622	CSNK1A1L:miR-609
rs34413117	chr13:36575752	CSNK1A1L:miR-299-3p
rs1336754	chr13:36575995	CSNK1A1L:miR-429
rs1043348	chr13:38482373	C13orf23:miR-202*
rs17226809	chr13:38482916	C13orf23:miR-29a
rs17226809	chr13:38482916	C13orf23:miR-29b
rs17226809	chr13:38482916	C13orf23:miR-29c
rs34241243	chr13:40027924	FOXO1A:miR-584
rs34241243	chr13:40027924	FOXO1A:miR-135a
rs34241243	chr13:40027924	FOXO1A:miR-135b
rs17090557	chr13:40281861	SLC25A15:miR-125a
rs17090557	chr13:40281861	SLC25A15:miR-125b
rs9562242	chr13:40404230	ELF1:miR-561
rs57316488	chr13:40404238	ELF1:miR-561
rs41286987	chr13:40404281	ELF1:miR-494
rs41286987	chr13:40404281	ELF1:miR-641
rs34635680	chr13:40600747	KBTBD6:miR-581
rs11549103	chr13:41794913	AKAP11:miR-548d
rs11692	chr13:43905697	TSC22D1:miR-130a
rs11692	chr13:43905697	TSC22D1:miR-130b
rs11692	chr13:43905697	TSC22D1:miR-301
rs11692	chr13:43905697	TSC22D1:miR-454-3p
rs3209354	chr13:43905794	TSC22D1:miR-370
rs12044	chr13:43905896	TSC22D1:miR-646
rs11552475	chr13:44809388	TPT1:miR-488
rs9595340	chr13:45008385	COG3:miR-655
rs9595340	chr13:45008385	COG3:miR-369-3p
rs9595340	chr13:45008385	COG3:miR-374
rs9595340	chr13:45008385	COG3:miR-380-3p
rs17069218	chr13:46306351	HTR2A:miR-203
rs9332306	chr13:47733646	ITM2B:miR-488
rs1804276	chr13:47953886	RB1:miR-216
rs3720	chr13:49171604	KPNA3:miR-141
rs3720	chr13:49171604	KPNA3:miR-200a
rs3720	chr13:49171604	KPNA3:miR-429
rs1043729	chr13:49171832	KPNA3:miR-19a
rs1043729	chr13:49171832	KPNA3:miR-19b
rs17073314	chr13:49171834	KPNA3:miR-19a
rs17073314	chr13:49171834	KPNA3:miR-19b
rs34283770	chr13:49173336	KPNA3:let-7a
rs34283770	chr13:49173336	KPNA3:let-7b
rs34283770	chr13:49173336	KPNA3:let-7c
rs34283770	chr13:49173336	KPNA3:let-7d
rs34283770	chr13:49173336	KPNA3:let-7f
rs34283770	chr13:49173336	KPNA3:let-7g
rs34283770	chr13:49173336	KPNA3:let-7i

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs34283770	chr13:49173336	KPNA3:miR-98
rs34283770	chr13:49173336	KPNA3:miR-196a
rs34283770	chr13:49173336	KPNA3:miR-196b
rs34283770	chr13:49173336	KPNA3:miR-140
rs58793413	chr13:49173353	KPNA3:miR-21
rs7446	chr13:49173516	KPNA3:miR-217
rs61959958	chr13:49173576	KPNA3:miR-148a
rs35653957	chr13:49386413	C13orf1:miR-567
rs1043208	chr13:49490573	RFP2:miR-410
rs9805470	chr13:50837391	INTS6:miR-802
rs1054779	chr13:51501589	LOC440138:miR-484
rs41292810	chr13:51885740	VPS36:miR-186
rs17541412	chr13:52175673	LECT1:miR-9
rs60093151	chr13:57197446	PCDH17:miR-515-3p
rs61961930	chr13:57199853	PCDH17:miR-410
rs17059792	chr13:60882975	PCDH20:miR-22
rs1536943	chr13:69173286	KLHL1:miR-576
rs2307763	chr13:70910731	DACH1:miR-410
rs2307763	chr13:70910731	DACH1:miR-495
rs59415221	chr13:70910735	DACH1:miR-495
rs59415221	chr13:70910735	DACH1:miR-552
rs7931	chr13:72182412	LOC440145:miR-498
rs7931	chr13:72182412	LOC440145:miR-607
rs41286082	chr13:72548365	KLF5:miR-141
rs41286082	chr13:72548365	KLF5:miR-200a
rs41286082	chr13:72548365	KLF5:miR-429
rs35492941	chr13:72548758	KLF5:miR-561
rs34182652	chr13:73162399	KLF12:miR-580
rs41286098	chr13:73166801	KLF12:miR-542-3p
rs1058841	chr13:74756895	TBC1D4:miR-103
rs1058841	chr13:74756895	TBC1D4:miR-107
rs2274048	chr13:75078043	UCHL3:miR-569
rs1043353	chr13:75330427	LMO7:miR-142-5p
rs6835	chr13:76352482	KCTD12:miR-539
rs56678589	chr13:76355460	KCTD12:miR-570
rs1062733	chr13:76477491	FBXL3:miR-573
rs1062733	chr13:76477491	FBXL3:miR-542-3p
rs6562980	chr13:76477997	FBXL3:miR-338
rs826432	chr13:76478833	FBXL3:miR-520g
rs826432	chr13:76478833	FBXL3:miR-520h
rs826432	chr13:76478833	FBXL3:miR-106a
rs826432	chr13:76478833	FBXL3:miR-106b
rs826432	chr13:76478833	FBXL3:miR-17-5p
rs826432	chr13:76478833	FBXL3:miR-20a
rs826432	chr13:76478833	FBXL3:miR-20b
rs1057821	chr13:76478924	FBXL3:miR-519a
rs1057821	chr13:76478924	FBXL3:miR-519b
rs1057821	chr13:76478924	FBXL3:miR-519c
rs55781153	chr13:77235790	FLJ30046:miR-559
rs3027094	chr13:77368790	EDNRB:miR-25
rs3027094	chr13:77368790	EDNRB:miR-367
rs3027094	chr13:77368790	EDNRB:miR-92

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3027094	chr13:77368790	EDNRB:miR-92b
rs3027094	chr13:77368790	EDNRB:miR-33
rs9601092	chr13:78072092	POU4F1:miR-188
rs34314729	chr13:78792564	C13orf10:miR-573
rs4414367	chr13:78792722	C13orf10:miR-182*
rs1212082	chr13:79024769	NDFIP2:miR-511
rs59945183	chr13:79024809	NDFIP2:miR-522
rs1054544	chr13:85265010	SLITRK6:miR-568
rs7998922	chr13:85265011	SLITRK6:miR-568
rs34421625	chr13:87129243	SLITRK5:miR-142-5p
rs9584224	chr13:93853727	GPC6:miR-539
rs61965610	chr13:94077468	GPR180:miR-25
rs61965610	chr13:94077468	GPR180:miR-367
rs61965610	chr13:94077468	GPR180:miR-92
rs61965610	chr13:94077468	GPR180:miR-92b
rs9556713	chr13:96843159	MBNL2:miR-181a
rs9556713	chr13:96843159	MBNL2:miR-181c
rs35709582	chr13:96843404	MBNL2:miR-101
rs35709582	chr13:96843404	MBNL2:miR-374
rs15004	chr13:96844147	MBNL2:miR-1
rs15004	chr13:96844147	MBNL2:miR-206
rs15004	chr13:96844147	MBNL2:miR-203
rs59086037	chr13:96915153	RAP2A:miR-28
rs57530477	chr13:96915773	RAP2A:miR-519d
rs1054272	chr13:97473200	RANBP5:miR-539
rs34294450	chr13:99413941	ZIC5:miR-591
rs3825508	chr13:99414155	ZIC5:miR-609
rs12869870	chr13:99415306	ZIC5:miR-34a
rs12869870	chr13:99415306	ZIC5:miR-34c
rs12869870	chr13:99415306	ZIC5:miR-449
rs12869870	chr13:99415306	ZIC5:miR-449b
rs5806318	chr13:102129145	TPP2:miR-186
rs4743	chr13:102291826	BIVM:miR-802
rs4743	chr13:102291826	BIVM:miR-573
rs56077446	chr13:105940500	EFNB2:miR-548d
rs5806589	chr13:105941293	EFNB2:miR-221
rs15449	chr13:105993755	FLJ10154:miR-577
rs1059417	chr13:105993807	FLJ10154:miR-571
rs1059417	chr13:105993807	FLJ10154:miR-380-5p
rs10555	chr13:106619235	LOC728215:miR-205
rs61965355	chr13:106619307	LOC728215:miR-1
rs61965355	chr13:106619307	LOC728215:miR-206
rs9587306	chr13:106619837	LOC728215:miR-27a
rs9587306	chr13:106619837	LOC728215:miR-27b
rs9587306	chr13:106619837	LOC728215:miR-128a
rs9587306	chr13:106619837	LOC728215:miR-128b
rs34538955	chr13:107684190	ABHD13:miR-651
rs35583153	chr13:107684251	ABHD13:miR-183
rs2289046	chr13:109205907	IRS2:miR-582
rs1063196	chr13:110170986	ING1:miR-410
rs56018333	chr13:110743058	ARHGEF7:miR-96
rs34561530	chr13:111772721	SOX1:miR-17-3p

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs4907484	chr13:112792371	MCF2L:miR-185
rs4907484	chr13:112792371	MCF2L:miR-765
rs9603825	chr13:113025561	LAMP1:miR-577
rs9603825	chr13:113025561	LAMP1:miR-559
rs3945894	chr13:113025567	LAMP1:miR-577
rs3833987	chr13:113025570	LAMP1:miR-577
rs11545598	chr13:113342887	TFDP1:miR-545
rs1760943	chr14:19996539	TMEM55B:miR-564
rs3207462	chr14:20628244	ZNF219:miR-545
rs1064879	chr14:20748937	HNRPC:miR-548d
rs1064971	chr14:20749127	HNRPC:miR-620
rs2295864	chr14:20889690	SUPT16H:miR-515-5p
rs2295864	chr14:20889690	SUPT16H:miR-519e*
rs36040169	chr14:21036139	C14orf92:miR-30a-5p
rs36040169	chr14:21036139	C14orf92:miR-30b
rs36040169	chr14:21036139	C14orf92:miR-30c
rs36040169	chr14:21036139	C14orf92:miR-30d
rs36040169	chr14:21036139	C14orf92:miR-30e-5p
rs1124981	chr14:21060377	SALL2:miR-765
rs35323339	chr14:22312299	SLC7A7:miR-338
rs35323339	chr14:22312299	SLC7A7:miR-770-5p
rs45452091	chr14:22312324	SLC7A7:miR-518f*
rs45452091	chr14:22312324	SLC7A7:miR-526a
rs45452091	chr14:22312324	SLC7A7:miR-526c
rs1052922	chr14:22597707	ACIN1:miR-363*
rs34164276	chr14:22864523	PABPN1:miR-515-5p
rs34164276	chr14:22864523	PABPN1:miR-519e*
rs14947	chr14:22864823	PABPN1:miR-765
rs10131673	chr14:23107290	JPH4:miR-583
rs2281681	chr14:23107823	JPH4:miR-552
rs14930	chr14:23677846	PSME1:miR-204
rs14930	chr14:23677846	PSME1:miR-211
rs56815700	chr14:23966458	CBLN3:miR-484
rs1043831	chr14:23979202	KIAA0323:miR-128a
rs1043831	chr14:23979202	KIAA0323:miR-128b
rs17844876	chr14:23979203	KIAA0323:miR-128a
rs17844876	chr14:23979203	KIAA0323:miR-128b
rs35580864	chr14:23979298	KIAA0323:miR-615
rs1042761	chr14:28308250	FOXG1B:miR-519a
rs1042761	chr14:28308250	FOXG1B:miR-519b
rs1042761	chr14:28308250	FOXG1B:miR-519c
rs1042762	chr14:28308306	FOXG1B:miR-142-3p
rs1042762	chr14:28308306	FOXG1B:miR-34a
rs1042762	chr14:28308306	FOXG1B:miR-34c
rs1042762	chr14:28308306	FOXG1B:miR-449
rs1042762	chr14:28308306	FOXG1B:miR-449b
rs45569242	chr14:29115767	PRKD1:miR-375
rs45569242	chr14:29115767	PRKD1:miR-376a
rs45569242	chr14:29115767	PRKD1:miR-376b
rs34255465	chr14:30433865	STRN3:miR-559
rs11152	chr14:30639168	HECTD1:miR-381
rs11152	chr14:30639168	HECTD1:miR-524*

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs45441195	chr14:31694667	ARHGAP5:miR-517b
rs36216228	chr14:32369039	AKAP6:miR-196a
rs36216228	chr14:32369039	AKAP6:miR-196b
rs11156819	chr14:33464484	EGLN3:miR-498
rs11156819	chr14:33464484	EGLN3:miR-607
rs1680709	chr14:33464637	EGLN3:miR-562
rs9789	chr14:34251537	CFL2:miR-586
rs9789	chr14:34251537	CFL2:miR-33
rs45511494	chr14:34291763	BAZ1A:miR-320
rs3062551	chr14:34291902	BAZ1A:miR-589
rs34923805	chr14:34292147	BAZ1A:miR-802
rs2296919	chr14:35075410	INSM2:miR-514
rs56670738	chr14:36055788	TITF1:miR-548c
rs11847165	chr14:36216226	PAX9:miR-601
rs12436157	chr14:36219034	SLC25A21:miR-548d
rs12436157	chr14:36219034	SLC25A21:miR-421
rs1052944	chr14:37129580	FOXA1:miR-580
rs1052944	chr14:37129580	FOXA1:miR-1
rs1052944	chr14:37129580	FOXA1:miR-206
rs911822	chr14:37130178	FOXA1:miR-210
rs35689225	chr14:37130201	FOXA1:miR-522
rs2699	chr14:37130249	FOXA1:miR-140
rs3814860	chr14:38938397	FBXO33:miR-323
rs58836600	chr14:44466721	BTBD5:miR-1
rs58836600	chr14:44466721	BTBD5:miR-206
rs1053667	chr14:44612788	KIAA0423:miR-19a
rs1053667	chr14:44612788	KIAA0423:miR-19b
rs11552723	chr14:44613210	KIAA0423:miR-561
rs1235	chr14:46379246	MAMDC1:miR-223
rs11844549	chr14:46380733	MAMDC1:miR-199a
rs11844549	chr14:46380733	MAMDC1:miR-199b
rs56294762	chr14:49320706	SDCCAG1:miR-659
rs56294762	chr14:49320706	SDCCAG1:miR-579
rs15382	chr14:49431088	ARF6:miR-577
rs1045637	chr14:49654664	SOS2:miR-576
rs45576933	chr14:50263772	NIN:miR-144
rs1803417	chr14:51541391	NID2:miR-383
rs2474658	chr14:51541694	NID2:miR-382
rs6696	chr14:52264169	PSMC6:miR-126*
rs61983162	chr14:53486372	BMP4:miR-577
rs10220437	chr14:53964046	CNIH:let-7a
rs10220437	chr14:53964046	CNIH:let-7b
rs10220437	chr14:53964046	CNIH:let-7c
rs10220437	chr14:53964046	CNIH:let-7d
rs10220437	chr14:53964046	CNIH:let-7f
rs10220437	chr14:53964046	CNIH:let-7g
rs10220437	chr14:53964046	CNIH:let-7i
rs10220437	chr14:53964046	CNIH:miR-98
rs8016671	chr14:53964131	CNIH:miR-299-3p
rs11552807	chr14:53964236	CNIH:miR-140
rs1134761	chr14:54011483	GMFB:miR-199a
rs1134761	chr14:54011483	GMFB:miR-199b



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs10144957	chr14:54583207	SOCS4:miR-577
rs10144957	chr14:54583207	SOCS4:miR-559
rs45589533	chr14:54605757	C14orf32:miR-519a
rs45589533	chr14:54605757	C14orf32:miR-519b
rs45589533	chr14:54605757	C14orf32:miR-519c
rs1045004	chr14:54889544	FBXO34:miR-513
rs17128429	chr14:54889553	FBXO34:miR-30a-5p
rs17128429	chr14:54889553	FBXO34:miR-30b
rs17128429	chr14:54889553	FBXO34:miR-30c
rs17128429	chr14:54889553	FBXO34:miR-30d
rs17128429	chr14:54889553	FBXO34:miR-30e-5p
rs11438404	chr14:55834806	PELI2:miR-181b
rs11438404	chr14:55834806	PELI2:miR-181d
rs11438404	chr14:55834806	PELI2:miR-574
rs11438404	chr14:55834806	PELI2:miR-15a
rs11438404	chr14:55834806	PELI2:miR-15b
rs11438404	chr14:55834806	PELI2:miR-16
rs11438404	chr14:55834806	PELI2:miR-195
rs11438404	chr14:55834806	PELI2:miR-497
rs33981994	chr14:55834807	PELI2:miR-181b
rs33981994	chr14:55834807	PELI2:miR-181d
rs33981994	chr14:55834807	PELI2:miR-574
rs33981994	chr14:55834807	PELI2:miR-15a
rs33981994	chr14:55834807	PELI2:miR-15b
rs33981994	chr14:55834807	PELI2:miR-16
rs33981994	chr14:55834807	PELI2:miR-195
rs33981994	chr14:55834807	PELI2:miR-497
rs3841299	chr14:55834808	PELI2:miR-181b
rs3841299	chr14:55834808	PELI2:miR-181d
rs3841299	chr14:55834808	PELI2:miR-574
rs3841299	chr14:55834808	PELI2:miR-15a
rs3841299	chr14:55834808	PELI2:miR-15b
rs3841299	chr14:55834808	PELI2:miR-16
rs3841299	chr14:55834808	PELI2:miR-195
rs3841299	chr14:55834808	PELI2:miR-497
rs33925820	chr14:55834809	PELI2:miR-15a
rs33925820	chr14:55834809	PELI2:miR-15b
rs33925820	chr14:55834809	PELI2:miR-16
rs33925820	chr14:55834809	PELI2:miR-195
rs33925820	chr14:55834809	PELI2:miR-497
rs57390094	chr14:56337240	OTX2:miR-448
rs56245644	chr14:56337529	OTX2:miR-548b
rs45464393	chr14:56740243	EXOC5:miR-199a*
rs36026244	chr14:56946196	NAT12:miR-186
rs3825621	chr14:56946595	NAT12:miR-143
rs3825621	chr14:56946595	NAT12:miR-548a
rs3825621	chr14:56946595	NAT12:miR-9*
rs8008483	chr14:56946989	NAT12:miR-491
rs12882994	chr14:60249167	SIX4:miR-652
rs12882994	chr14:60249167	SIX4:miR-566
rs12884102	chr14:60249169	SIX4:miR-566
rs12884102	chr14:60249169	SIX4:miR-185

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs7145317	chr14:60249190	SIX4:miR-559
rs7145317	chr14:60249190	SIX4:miR-577
rs33930665	chr14:61283683	HIF1A:miR-383
rs41398644	chr14:61283686	HIF1A:miR-383
rs17099190	chr14:61283927	HIF1A:miR-433
rs8019084	chr14:61284203	HIF1A:miR-135a
rs8019084	chr14:61284203	HIF1A:miR-135b
rs8019084	chr14:61284203	HIF1A:miR-522
rs45487994	chr14:63221119	SGPP1:miR-25
rs45487994	chr14:63221119	SGPP1:miR-367
rs45487994	chr14:63221119	SGPP1:miR-92
rs45487994	chr14:63221119	SGPP1:miR-92b
rs17852278	chr14:64613021	MAX:miR-615
rs17852278	chr14:64613021	MAX:miR-296
rs1054218	chr14:65278943	FUT8:miR-522
rs57228058	chr14:65279208	FUT8:miR-599
rs11539273	chr14:65279231	FUT8:miR-767-5p
rs11539356	chr14:66874602	ATP6V1D:miR-542-3p
rs17104363	chr14:67009236	C14orf83:miR-769-5p
rs11547223	chr14:67125958	PLEKHH1:miR-30a-3p
rs11547223	chr14:67125958	PLEKHH1:miR-30e-3p
rs11547223	chr14:67125958	PIGH:miR-429
rs1802342	chr14:67187915	ARG2:miR-550
rs12879105	chr14:67284541	ZFYVE26:miR-559
rs35948063	chr14:68014257	RAD51L1:miR-424
rs35948063	chr14:68014257	RAD51L1:miR-340
rs1054993	chr14:68410836	ACTN1:miR-552
rs11557771	chr14:68410996	ACTN1:miR-218
rs3209273	chr14:68411038	ACTN1:miR-19a
rs3209273	chr14:68411038	ACTN1:miR-19b
rs1128941	chr14:68587421	WDR22:miR-448
rs2604305	chr14:68916706	ERH:miR-409-3p
rs17115408	chr14:69307958	SFRS5:miR-296
rs3208848	chr14:69308012	SFRS5:miR-361
rs3208849	chr14:69308083	SFRS5:miR-524*
rs3208849	chr14:69308083	SFRS5:miR-520d*
rs184477	chr14:69580879	SLC8A3:miR-599
rs184477	chr14:69580879	SLC8A3:miR-592
rs7148305	chr14:69906349	SYNJ2BP:miR-380-3p
rs35633884	chr14:70209070	TTC9:miR-302a
rs35633884	chr14:70209070	TTC9:miR-302b
rs35633884	chr14:70209070	TTC9:miR-302c
rs35633884	chr14:70209070	TTC9:miR-302d
rs35633884	chr14:70209070	TTC9:miR-373
rs35633884	chr14:70209070	TTC9:miR-520a
rs35633884	chr14:70209070	TTC9:miR-520b
rs35633884	chr14:70209070	TTC9:miR-520c
rs35633884	chr14:70209070	TTC9:miR-520d
rs35633884	chr14:70209070	TTC9:miR-520e
rs35633884	chr14:70209070	TTC9:miR-526b*
rs35633884	chr14:70209070	TTC9:miR-106a
rs35633884	chr14:70209070	TTC9:miR-106b

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs35633884	chr14:70209070	TTC9:miR-17-5p
rs35633884	chr14:70209070	TTC9:miR-20a
rs35633884	chr14:70209070	TTC9:miR-20b
rs45479600	chr14:70651801	PCNX:miR-429
rs1064612	chr14:72656300	RBM25:miR-583
rs1801974	chr14:73822503	ABCD4:miR-522
rs11541545	chr14:74372406	YLPM1:miR-539
rs1046384	chr14:74372500	YLPM1:miR-625
rs1046384	chr14:74372500	YLPM1:miR-765
rs17493927	chr14:74614202	C14orf140:miR-431
rs15157	chr14:74668000	TMED10:miR-568
rs15157	chr14:74668000	TMED10:miR-605
rs15156	chr14:74668012	TMED10:miR-455
rs1804659	chr14:74670876	TMED10:miR-583
rs12528	chr14:74671038	TMED10:miR-510
rs12527	chr14:74671041	TMED10:miR-510
rs45628236	chr14:74818296	FOS:miR-199a*
rs4645858	chr14:74818361	FOS:miR-511
rs4645858	chr14:74818361	FOS:miR-187
rs10623682	chr14:76560944	C14orf4:miR-589
rs10623682	chr14:76560944	C14orf4:miR-570
rs35238200	chr14:76560945	C14orf4:miR-589
rs35238200	chr14:76560945	C14orf4:miR-570
rs35725244	chr14:77012124	THSD3:miR-612
rs45542336	chr14:79399000	NRXN3:miR-363*
rs35874905	chr14:79399487	NRXN3:miR-302b*
rs35537321	chr14:79399495	NRXN3:miR-499
rs12879016	chr14:79399885	NRXN3:miR-328
rs56003521	chr14:80033136	C14orf145:miR-625
rs56003521	chr14:80033136	C14orf145:miR-185
rs33941291	chr14:80033137	C14orf145:miR-185
rs2288495	chr14:80681672	TSHR:miR-517*
rs58574729	chr14:81012670	SEL1L:miR-223
rs45443995	chr14:85161439	FLRT2:miR-641
rs45443995	chr14:85161439	FLRT2:miR-583
rs17094456	chr14:85163175	FLRT2:miR-205
rs11131	chr14:85163937	FLRT2:miR-595
rs11548716	chr14:88692401	FOXN3:miR-182
rs12889591	chr14:88693073	FOXN3:miR-299-5p
rs12889771	chr14:88693156	FOXN3:miR-450
rs12889348	chr14:88693199	FOXN3:miR-488
rs15414	chr14:89944277	CALM1:miR-454-5p
rs15414	chr14:89944277	CALM1:miR-133a
rs15414	chr14:89944277	CALM1:miR-133b
rs1053461	chr14:90407080	RPS6KA5:miR-561
rs17127097	chr14:90407216	RPS6KA5:miR-204
rs17127097	chr14:90407216	RPS6KA5:miR-211
rs34712536	chr14:90430253	RPS6KA5:miR-142-5p
rs4904783	chr14:90994048	KIAA2010:miR-146a
rs4904783	chr14:90994048	KIAA2010:miR-146b
rs35979920	chr14:91505736	TRIP11:miR-106a
rs35979920	chr14:91505736	TRIP11:miR-106b

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs35979920	chr14:91505736	TRIP11:miR-17-5p
rs35979920	chr14:91505736	TRIP11:miR-20a
rs35979920	chr14:91505736	TRIP11:miR-20b
rs34148613	chr14:91600139	ATXN3:miR-190
rs7156335	chr14:92475985	ITPK1:miR-620
rs11621915	chr14:92763584	C14orf130:miR-767-5p
rs34494032	chr14:92776468	BTBD7:miR-513
rs61698538	chr14:92777965	BTBD7:miR-509
rs11388740	chr14:94625148	DICER1:miR-186
rs56033032	chr14:96101306	PAPOLA:miR-619
rs56033032	chr14:96101306	PAPOLA:miR-490
rs7492490	chr14:96101752	PAPOLA:miR-378
rs56132905	chr14:96103013	PAPOLA:miR-224
rs12147717	chr14:96103097	PAPOLA:miR-559
rs3918125	chr14:99046971	CCNK:miR-33
rs3918125	chr14:99046971	CCNK:miR-517a
rs3918125	chr14:99046971	CCNK:miR-517c
rs1044620	chr14:99476524	EML1:miR-758
rs1044620	chr14:99476524	EML1:miR-630
rs1065377	chr14:99680149	EVL:miR-185
rs1065377	chr14:99680149	EVL:miR-625
rs58262953	chr14:99814408	YY1:miR-34a
rs58262953	chr14:99814408	YY1:miR-34c
rs58262953	chr14:99814408	YY1:miR-449
rs58262953	chr14:99814408	YY1:miR-449b
rs35946432	chr14:101463674	PPP2R5C:miR-432
rs35659612	chr14:101759644	WDR20:miR-369-3p
rs35659612	chr14:101759644	WDR20:miR-374
rs35659612	chr14:101759644	WDR20:miR-380-3p
rs6478	chr14:101759646	WDR20:miR-369-3p
rs6478	chr14:101759646	WDR20:miR-374
rs6478	chr14:101759646	WDR20:miR-380-3p
rs11704	chr14:101878408	C14orf131:miR-23a
rs11704	chr14:101878408	C14orf131:miR-23b
rs11303	chr14:102879065	EIF5:miR-671
rs11303	chr14:102879065	EIF5:miR-518f*
rs11303	chr14:102879065	EIF5:miR-526a
rs11303	chr14:102879065	EIF5:miR-526c
rs35965972	chr14:103221895	KNS2:miR-583
rs1133050	chr14:104297037	SIVA1:miR-19a
rs1133050	chr14:104297037	SIVA1:miR-19b
rs34252654	chr14:104548225	CDCA4:miR-616
rs35963377	chr14:104932125	PACS2:miR-613
rs35963377	chr14:104932125	PACS2:miR-203
rs12881576	chr14:105007911	MTA1:miR-421
rs12881576	chr14:105007911	MTA1:miR-302b*
rs1132457	chr14:105007912	MTA1:miR-421
rs1132457	chr14:105007912	MTA1:miR-302b*
rs548	chr15:20425225	TUBGCP5:miR-1
rs548	chr15:20425225	TUBGCP5:miR-206
rs35420735	chr15:20556821	NIPA2:miR-610
rs1722807	chr15:21482216	NDN:miR-223

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs34821249	chr15:22478544	C15orf2:miR-320
rs34821249	chr15:22478544	C15orf2:miR-548a
rs34821249	chr15:22478544	C15orf2:miR-146a
rs34821249	chr15:22478544	C15orf2:miR-146b
rs34310223	chr15:22773209	SNURF:miR-571
rs2628634	chr15:23475502	ATP10A:miR-384
rs1802413	chr15:26029990	HERC2:miR-501
rs28733236	chr15:29456394	KLF13:miR-577
rs3743103	chr15:30812919	GREM1:miR-569
rs1137095	chr15:32458584	GOLGA8A:miR-33b
rs1137094	chr15:32458585	GOLGA8A:miR-33b
rs7727	chr15:32458730	GOLGA8A:miR-571
rs1059886	chr15:32459510	GOLGA8A:miR-25
rs1059886	chr15:32459510	GOLGA8A:miR-367
rs1059886	chr15:32459510	GOLGA8A:miR-92
rs1059886	chr15:32459510	GOLGA8A:miR-92b
rs1059886	chr15:32459510	GOLGA8A:miR-139
rs1059886	chr15:32459510	GOLGA8A:miR-27a
rs1059886	chr15:32459510	GOLGA8A:miR-27b
rs3538	chr15:32604799	GOLGA8B:miR-23a
rs3538	chr15:32604799	GOLGA8B:miR-23b
rs3538	chr15:32604799	GOLGA8B:miR-323
rs57021600	chr15:32605685	GOLGA8B:miR-190
rs36106641	chr15:32605705	GOLGA8B:miR-655
rs4041349	chr15:32605705	GOLGA8B:miR-655
rs36106641	chr15:32605705	GOLGA8B:miR-586
rs4041349	chr15:32605705	GOLGA8B:miR-586
rs4144689	chr15:32606811	GOLGA8B:miR-527
rs34079057	chr15:36432216	SPRED1:miR-630
rs57589132	chr15:36432816	SPRED1:miR-142-3p
rs1129005	chr15:37676797	THBS1:miR-559
rs1129005	chr15:37676797	THBS1:miR-335
rs11282	chr15:37676842	THBS1:miR-384
rs679882	chr15:38546639	BAHD1:miR-657
rs34268812	chr15:39018440	DLL4:miR-520d*
rs34658531	chr15:39459733	NUSAP1:miR-561
rs11376196	chr15:39459737	NUSAP1:miR-561
rs1942	chr15:39561715	RTF1:miR-223
rs35778776	chr15:39562024	RTF1:miR-559
rs1801449	chr15:40468491	CAPN3:miR-483
rs28364543	chr15:40490829	CAPN3:miR-409-3p
rs34368044	chr15:41022788	UBR1:miR-559
rs34368044	chr15:41022788	UBR1:miR-573
rs62020698	chr15:41024706	UBR1:miR-619
rs12079	chr15:41486749	TP53BP1:miR-561
rs12079	chr15:41486749	TP53BP1:miR-545
rs11638719	chr15:41719198	CATSPER2:miR-769-5p
rs3209488	chr15:41850875	PDIA3:miR-553
rs11555369	chr15:41873361	SERF2:miR-769-3p
rs3833007	chr15:42641563	EIF3S1:miR-140
rs1145087	chr15:43440752	GATM:miR-557
rs35410548	chr15:43440864	GATM:miR-384

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs56259861	chr15:43440865	GATM:miR-384
rs55986645	chr15:43636051	C15orf21:miR-579
rs34884840	chr15:45851098	SEMA6D:miR-138
rs58383159	chr15:45852767	SEMA6D:miR-613
rs1045689	chr15:45852821	SEMA6D:miR-579
rs1045689	chr15:45852821	SEMA6D:miR-769-5p
rs11528	chr15:45853550	SEMA6D:miR-126
rs55717426	chr15:46489715	FBN1:miR-629
rs16960899	chr15:46490256	FBN1:miR-196a
rs16960899	chr15:46490256	FBN1:miR-196b
rs1054307	chr15:47068916	KIAA0256:miR-570
rs35286319	chr15:47207216	COPS2:miR-144
rs35286319	chr15:47207216	COPS2:miR-605
rs35686890	chr15:47564345	FGF7:miR-613
rs1057655	chr15:47564934	FGF7:miR-589
rs1802662	chr15:48356868	GABPB2:miR-376a
rs1802662	chr15:48356868	GABPB2:miR-376b
rs1802662	chr15:48356868	GABPB2:miR-142-5p
rs12923	chr15:48357328	GABPB2:miR-154
rs3837683	chr15:48640535	TRPM7:miR-320
rs3837683	chr15:48640535	TRPM7:miR-548a
rs60298843	chr15:48640535	TRPM7:miR-320
rs60298843	chr15:48640535	TRPM7:miR-548a
rs3837683	chr15:48640535	TRPM7:miR-565
rs60298843	chr15:48640535	TRPM7:miR-565
rs7169746	chr15:49083225	AP4E1:miR-429
rs3825799	chr15:49083226	AP4E1:miR-429
rs56367619	chr15:50145610	MAPK6:miR-636
rs61202723	chr15:50386832	MYO5A:miR-569
rs61202723	chr15:50386832	MYO5A:miR-425-5p
rs36078972	chr15:50388325	MYO5A:miR-328
rs62015995	chr15:50391825	MYO5A:miR-630
rs35681053	chr15:50392445	MYO5A:miR-640
rs11857272	chr15:50629983	ARPP-19:miR-508
rs1055747	chr15:50630353	ARPP-19:miR-561
rs8026294	chr15:51596134	WDR72:miR-617
rs1053864	chr15:52706703	UNC13C:miR-30a-5p
rs1053864	chr15:52706703	UNC13C:miR-30b
rs1053864	chr15:52706703	UNC13C:miR-30c
rs1053864	chr15:52706703	UNC13C:miR-30d
rs1053864	chr15:52706703	UNC13C:miR-30e-5p
rs28704091	chr15:52707477	UNC13C:miR-559
rs28497739	chr15:52707524	UNC13C:miR-144
rs16976428	chr15:53698960	PRTG:miR-485-3p
rs16976428	chr15:53698960	PRTG:miR-323
rs16976428	chr15:53698960	PRTG:miR-363
rs1042472	chr15:53906486	NEDD4:miR-595
rs1042472	chr15:53906486	NEDD4:miR-648
rs16976737	chr15:54171090	RFXDC2:miR-154*
rs16976737	chr15:54171090	RFXDC2:miR-487a
rs34672023	chr15:54171917	RFXDC2:miR-559
rs9972586	chr15:54171931	RFXDC2:miR-216

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs59479430	chr15:54171943	RFXDC2:miR-216
rs12438324	chr15:55366808	TCF12:miR-801
rs2431026	chr15:55367701	TCF12:miR-569
rs7174233	chr15:55764662	Gcom1:miR-224
rs1062707	chr15:55788273	GRINL1A:miR-17-3p
rs3985735	chr15:55795265	GRINL1A:miR-505
rs35897884	chr15:56033013	ALDH1A2:miR-198
rs35897884	chr15:56033013	ALDH1A2:miR-520a*
rs35897884	chr15:56033013	ALDH1A2:miR-525
rs4646642	chr15:56034208	ALDH1A2:miR-539
rs36008859	chr15:56934673	FAM63B:miR-203
rs431414	chr15:56935092	FAM63B:miR-154
rs3751539	chr15:57175505	RNF111:miR-27a
rs3751539	chr15:57175505	RNF111:miR-27b
rs6151584	chr15:57743397	BNIP2:miR-199a*
rs58293779	chr15:60920161	TLN2:miR-374
rs7178040	chr15:61151151	TPM1:miR-648
rs7178040	chr15:61151151	TPM1:miR-139
rs28406541	chr15:61346051	RAB8B:miR-649
rs7181218	chr15:61346913	RAB8B:miR-571
rs7181218	chr15:61346913	RAB8B:miR-569
rs1131647	chr15:61688166	HERC1:miR-577
rs11548866	chr15:62152245	FAM96A:miR-22
rs1043082	chr15:62235110	SNX22:miR-505
rs1043082	chr15:62235110	SNX22:miR-634
rs1804427	chr15:62235306	SNX22:miR-491
rs28720193	chr15:62236013	SNX22:miR-432*
rs62024252	chr15:62245458	CSNK1G1:miR-338
rs34883285	chr15:62249653	CSNK1G1:miR-613
rs62024255	chr15:62250178	CSNK1G1:miR-143
rs8034064	chr15:62761196	ZNF609:miR-199a*
rs28675704	chr15:62946052	PLEKHQ1:miR-594
rs62012486	chr15:63196809	PDCD7:miR-620
rs62012486	chr15:63196809	PDCD7:miR-410
rs1141278	chr15:63275644	CILP:miR-26a
rs1141278	chr15:63275644	CILP:miR-26b
rs5813350	chr15:63460967	NOPE:miR-185
rs5813351	chr15:63460976	NOPE:miR-518b
rs5813351	chr15:63460976	NOPE:miR-518c
rs5813351	chr15:63460976	NOPE:miR-518d
rs33998478	chr15:63461854	NOPE:miR-650
rs14303	chr15:64570315	MAP2K1:miR-580
rs14538	chr15:64570803	MAP2K1:miR-103
rs14538	chr15:64570803	MAP2K1:miR-107
rs45615538	chr15:64861144	SMAD6:miR-767-5p
rs45615538	chr15:64861144	SMAD6:miR-25
rs45615538	chr15:64861144	SMAD6:miR-367
rs45615538	chr15:64861144	SMAD6:miR-92
rs45615538	chr15:64861144	SMAD6:miR-92b
rs1052488	chr15:65273901	SMAD3:miR-544
rs2202380	chr15:67484810	PAQR5:miR-191
rs34664771	chr15:67527613	KIF23:miR-539

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs14636	chr15:70662728	ARIH1:miR-517*
rs61628540	chr15:70831616	ADPGK:miR-1
rs61628540	chr15:70831616	ADPGK:miR-206
rs61628540	chr15:70831616	ADPGK:miR-455
rs1043586	chr15:71639506	NPTN:miR-517b
rs1043589	chr15:71639527	NPTN:miR-146a
rs1043589	chr15:71639527	NPTN:miR-146b
rs1043555	chr15:71639661	NPTN:miR-539
rs3178164	chr15:72256258	ISLR:miR-372
rs3178164	chr15:72256258	ISLR:miR-93
rs3178164	chr15:72256258	ISLR:miR-361
rs59860926	chr15:72676198	ARID3B:miR-577
rs59860926	chr15:72676198	ARID3B:miR-559
rs56663733	chr15:72676199	ARID3B:miR-577
rs56663733	chr15:72676199	ARID3B:miR-559
rs3184088	chr15:72677407	ARID3B:miR-645
rs1130369	chr15:72706786	CLK3:miR-9
rs17851757	chr15:72709227	CLK3:miR-621
rs4886624	chr15:72882206	CSK:miR-583
rs2071501	chr15:72882210	CSK:miR-583
rs2071501	chr15:72882210	CSK:miR-216
rs11551123	chr15:73450494	SIN3A:miR-101
rs56757384	chr15:73450800	SIN3A:miR-31
rs335687	chr15:73979021	UBE2Q2:miR-527
rs11854453	chr15:74421345	ISL2:miR-802
rs2469225	chr15:74427713	ZNF291:miR-335
rs17381898	chr15:75191697	SGK269:miR-493-5p
rs2139448	chr15:76360642	DNAJA4:miR-518a
rs2139448	chr15:76360642	DNAJA4:miR-518e
rs2139448	chr15:76360642	DNAJA4:miR-518f
rs16970208	chr15:76976930	MORF4L1:miR-432*
rs1062752	chr15:76977041	MORF4L1:miR-33
rs1062752	chr15:76977041	MORF4L1:miR-33b
rs1062752	chr15:76977041	MORF4L1:miR-586
rs3211410	chr15:76977048	MORF4L1:miR-33
rs3211410	chr15:76977048	MORF4L1:miR-33b
rs3211410	chr15:76977048	MORF4L1:miR-586
rs3211410	chr15:76977048	MORF4L1:miR-148b
rs3211410	chr15:76977048	MORF4L1:miR-152
rs3211410	chr15:76977048	MORF4L1:miR-768-3p
rs3825793	chr15:78834952	FAM108C1:miR-182
rs1045388	chr15:82499378	ADAMTSL3:miR-569
rs61156636	chr15:84093463	AKAP13:miR-603
rs28562651	chr15:86323556	NTRK3:miR-589
rs1042499	chr15:88129309	ANPEP:miR-516-3p
rs1042499	chr15:88129309	ANPEP:miR-125a
rs1042499	chr15:88129309	ANPEP:miR-125b
rs12148341	chr15:88424595	ZNF710:let-7e
rs7024	chr15:88573835	SEMA4B:miR-568
rs10307	chr15:88845288	IQGAP1:miR-33
rs10307	chr15:88845288	IQGAP1:miR-586
rs6228	chr15:89226499	FURIN:miR-661



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs4702	chr15:89227564	FURIN:miR-338
rs2290492	chr15:90808978	ST8SIA2:miR-556
rs7167007	chr15:96318041	ARRDC4:miR-208
rs1815009	chr15:97322194	IGF1R:miR-647
rs2654980	chr15:97322366	IGF1R:miR-34a
rs2654980	chr15:97322366	IGF1R:miR-34c
rs2654980	chr15:97322366	IGF1R:miR-449
rs2654980	chr15:97322366	IGF1R:miR-449b
rs2654980	chr15:97322366	IGF1R:miR-34b
rs11542591	chr15:97323740	IGF1R:miR-653
rs57778807	chr15:98329417	ADAMTS17:miR-544
rs57778807	chr15:98329417	ADAMTS17:miR-630
rs2727199	chr15:98331940	ADAMTS17:miR-9*
rs35133782	chr15:98331940	ADAMTS17:miR-9*
rs2581343	chr15:98331941	ADAMTS17:miR-9*
rs1802604	chr15:99274190	ALDH1A3:miR-656
rs1802604	chr15:99274190	ALDH1A3:miR-144
rs7189908	chr16:179108	LUC7L:miR-520d*
rs7189908	chr16:179108	LUC7L:miR-524*
rs17555255	chr16:619242	RAB40C:miR-524*
rs17555255	chr16:619242	RAB40C:miR-568
rs34375495	chr16:672180	LOC339123:miR-324-5p
rs3204090	chr16:672466	LOC339123:miR-580
rs11546345	chr16:2509811	ATP6V0C:miR-375
rs11554591	chr16:2593021	PDPK1:miR-9*
rs28595195	chr16:3012092	TNFRSF12A:miR-372
rs28595195	chr16:3012092	TNFRSF12A:miR-93
rs28595195	chr16:3012092	TNFRSF12A:miR-105
rs34148810	chr16:3716630	CREBBP:miR-542-5p
rs7187345	chr16:3953930	ADCY9:miR-7
rs10852642	chr16:4182029	SRL:miR-556
rs1042846	chr16:4247235	TFAP4:miR-564
rs57083382	chr16:4680915	MGRN1:miR-594
rs9936	chr16:4793342	N-PAC:miR-559
rs9936	chr16:4793342	N-PAC:miR-577
rs8062475	chr16:7701112	A2BP1:miR-562
rs12934685	chr16:7701424	A2BP1:miR-200b
rs12934685	chr16:7701424	A2BP1:miR-200c
rs12934685	chr16:7701424	A2BP1:miR-429
rs3803674	chr16:7701454	A2BP1:miR-384
rs35663109	chr16:8894349	USP7:miR-577
rs11551181	chr16:8895225	USP7:miR-142-5p
rs11551181	chr16:8895225	USP7:miR-559
rs11575877	chr16:9763982	GRIN2A:miR-610
rs9937910	chr16:9764017	GRIN2A:miR-25
rs9937910	chr16:9764017	GRIN2A:miR-367
rs9937910	chr16:9764017	GRIN2A:miR-92
rs9937910	chr16:9764017	GRIN2A:miR-92b
rs34927167	chr16:11255962	SOCS1:miR-582
rs35560842	chr16:11678054	SNN:miR-545
rs36012200	chr16:11680504	SNN:miR-1
rs36012200	chr16:11680504	SNN:miR-206

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs7090	chr16:11752156	ZC3H7A:miR-365
rs7090	chr16:11752156	ZC3H7A:miR-136
rs970889	chr16:11874141	GSPT1:miR-455
rs62622820	chr16:11874417	GSPT1:let-7e
rs3803577	chr16:15596591	LKAP:miR-579
rs35715530	chr16:15597464	LKAP:miR-124a
rs12907	chr16:15726154	NDE1:miR-558
rs1472428	chr16:17103997	XYLT1:miR-9
rs11456584	chr16:18727003	SMG1:miR-203
rs11456584	chr16:18727003	SMG1:miR-130a
rs11456584	chr16:18727003	SMG1:miR-130b
rs11456584	chr16:18727003	SMG1:miR-301
rs11456584	chr16:18727003	SMG1:miR-454-3p
rs11456584	chr16:18727003	SMG1:miR-155
rs62046279	chr16:18727769	SMG1:miR-205
rs2729	chr16:19776188	MGC35048:miR-591
rs9924280	chr16:20778402	DCUN1D3:miR-548b
rs9924280	chr16:20778402	DCUN1D3:miR-548c
rs35251225	chr16:20778439	DCUN1D3:miR-516-5p
rs35576202	chr16:20778504	DCUN1D3:miR-583
rs16976044	chr16:22985166	USP31:miR-19a
rs16976044	chr16:22985166	USP31:miR-19b
rs3751846	chr16:22986828	USP31:miR-30a-5p
rs3751846	chr16:22986828	USP31:miR-30b
rs3751846	chr16:22986828	USP31:miR-30c
rs3751846	chr16:22986828	USP31:miR-30d
rs3751846	chr16:22986828	USP31:miR-30e-5p
rs3380	chr16:24133766	PRKCB1:miR-141
rs3380	chr16:24133766	PRKCB1:miR-200a
rs3380	chr16:24133766	PRKCB1:miR-429
rs3785379	chr16:24134435	PRKCB1:miR-605
rs3837785	chr16:24134462	PRKCB1:miR-129
rs1043774	chr16:24281127	CACNG3:miR-368
rs1043624	chr16:24742974	TNRC6A:miR-185
rs1043625	chr16:24742976	TNRC6A:miR-185
rs35671423	chr16:24743462	TNRC6A:miR-136
rs35671423	chr16:24743462	TNRC6A:miR-205
rs58962255	chr16:28756009	ATXN2L:miR-380-3p
rs1128259	chr16:28792872	SH2B:miR-383
rs1062379	chr16:29989207	ALDOA:miR-34a
rs1062379	chr16:29989207	ALDOA:miR-34c
rs1062379	chr16:29989207	ALDOA:miR-449
rs1062379	chr16:29989207	ALDOA:miR-449b
rs1127447	chr16:30275993	TBC1D10B:miR-185
rs1127447	chr16:30275993	TBC1D10B:miR-1
rs1127447	chr16:30275993	TBC1D10B:miR-206
rs3747485	chr16:30588657	FBRS:miR-629
rs11538958	chr16:30588788	FBRS:miR-484
rs11538958	chr16:30588788	FBRS:let-7e
rs11538958	chr16:30588788	FBRS:miR-650
rs34494127	chr16:30588903	FBRS:miR-493-5p
rs11538957	chr16:30589317	FBRS:miR-637

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1047488	chr16:31050027	MYST1:miR-184
rs370159	chr16:45293764	MLCK:miR-410
rs16952122	chr16:45673277	NETO2:miR-539
rs16952122	chr16:45673277	NETO2:miR-561
rs41280917	chr16:46674525	ABCC12:miR-539
rs34922460	chr16:48627061	C16orf69:miR-552
rs62028293	chr16:48821555	PAPD5:miR-153
rs62028293	chr16:48821555	PAPD5:miR-519a
rs62028293	chr16:48821555	PAPD5:miR-519b
rs62028293	chr16:48821555	PAPD5:miR-519c
rs1054478	chr16:49727522	SALL1:miR-18a
rs1054478	chr16:49727522	SALL1:miR-18b
rs1054478	chr16:49727522	SALL1:miR-519a
rs1054478	chr16:49727522	SALL1:miR-519b
rs1054478	chr16:49727522	SALL1:miR-519c
rs12920808	chr16:49728243	SALL1:miR-452
rs57079965	chr16:51029928	TNRC9:miR-576
rs28670961	chr16:52082332	RBL2:miR-657
rs7192937	chr16:52082967	FTS:miR-142-3p
rs7192937	chr16:52082967	RBL2:miR-141
rs7192937	chr16:52082967	RBL2:miR-200a
rs1946155	chr16:52191796	KIAA1005:miR-520a*
rs1946155	chr16:52191796	KIAA1005:miR-525
rs35669682	chr16:52192998	KIAA1005:miR-26a
rs35669682	chr16:52192998	KIAA1005:miR-26b
rs1799839	chr16:54097153	MMP2:miR-593
rs1799839	chr16:54097153	MMP2:miR-624
rs17860021	chr16:54097255	MMP2:miR-453
rs35368178	chr16:56705353	GTL3:miR-129
rs35368178	chr16:56705353	GTL3:miR-33
rs11539297	chr16:57104663	NDRG4:miR-561
rs3200465	chr16:57112176	CNOT1:miR-519a
rs3200465	chr16:57112176	CNOT1:miR-519b
rs3200465	chr16:57112176	CNOT1:miR-519c
rs3840045	chr16:60244865	CDH8:miR-659
rs7499268	chr16:64996034	CDH5:miR-490
rs7499268	chr16:64996034	CDH5:miR-548b
rs7499268	chr16:64996034	CDH5:miR-548c
rs9927827	chr16:65691603	CBFB:miR-155
rs35326373	chr16:65692389	CBFB:miR-335
rs11700	chr16:65790185	E2F4:miR-517*
rs11700	chr16:65790185	E2F4:miR-135a
rs11700	chr16:65790185	E2F4:miR-135b
rs11700	chr16:65790185	E2F4:miR-522
rs1063258	chr16:66229706	CTCF:miR-335
rs1063258	chr16:66229706	CTCF:miR-559
rs1063259	chr16:66229707	CTCF:miR-335
rs1063259	chr16:66229707	CTCF:miR-559
rs58833596	chr16:66229911	CTCF:miR-106a
rs58833596	chr16:66229911	CTCF:miR-106b
rs58833596	chr16:66229911	CTCF:miR-17-5p
rs58833596	chr16:66229911	CTCF:miR-20a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs58833596	chr16:66229911	CTCF:miR-20b
rs11043	chr16:66820459	RBM35B:miR-581
rs7203660	chr16:66949983	SMPD3:miR-633
rs36087213	chr16:66952264	SMPD3:miR-548b
rs36087213	chr16:66952264	SMPD3:miR-504
rs3169307	chr16:67709509	CTF8:miR-128a
rs3169307	chr16:67709509	CTF8:miR-128b
rs35002387	chr16:67710742	CTF8:miR-331
rs16958754	chr16:67916015	VPS4A:miR-103
rs16958754	chr16:67916015	VPS4A:miR-107
rs16958886	chr16:68055550	CYB5B:miR-496
rs55945292	chr16:68289632	NFAT5:miR-640
rs36095407	chr16:68500686	WWP2:miR-186
rs36095407	chr16:68500686	WWP2:miR-185
rs12927272	chr16:70320539	AP1G1:miR-499
rs61081595	chr16:70320855	AP1G1:miR-548d
rs61081595	chr16:70320855	AP1G1:miR-337
rs62053140	chr16:70320857	AP1G1:miR-548d
rs62053140	chr16:70320857	AP1G1:miR-337
rs11539981	chr16:70323755	AP1G1:miR-216
rs1053412	chr16:71374408	ATBF1:miR-542-3p
rs3841241	chr16:71376466	ATBF1:miR-494
rs34287921	chr16:73701247	ZNRF1:miR-515-3p
rs383362	chr16:77803321	WWOX:miR-801
rs57234047	chr16:78188366	MAF:miR-494
rs57234047	chr16:78188366	MAF:miR-641
rs35383470	chr16:78189673	MAF:miR-548c
rs1128432	chr16:80302598	CMIP:miR-549
rs1064208	chr16:80739478	MPHOSPH6:miR-30a-5p
rs1064208	chr16:80739478	MPHOSPH6:miR-30b
rs1064208	chr16:80739478	MPHOSPH6:miR-30c
rs1064208	chr16:80739478	MPHOSPH6:miR-30d
rs1064208	chr16:80739478	MPHOSPH6:miR-30e-5p
rs16974598	chr16:83370524	USP10:miR-138
rs16974880	chr16:83500139	CRISPLD2:miR-145
rs60165147	chr16:84263739	KIAA0182:miR-498
rs60165147	chr16:84263739	KIAA0182:miR-607
rs11544837	chr16:84264538	KIAA0182:miR-495
rs6539998	chr16:84264567	KIAA0182:miR-495
rs6539998	chr16:84264567	KIAA0182:miR-570
rs6539998	chr16:84264567	KIAA0182:miR-589
rs45509493	chr16:85104646	FOXF1:miR-577
rs45509493	chr16:85104646	FOXF1:miR-559
rs62047998	chr16:87225689	NHN1:miR-425-3p
rs1064245	chr17:591736	FAM57A:miR-450
rs1064245	chr17:591736	FAM57A:miR-302a
rs1064245	chr17:591736	FAM57A:miR-302b
rs1064245	chr17:591736	FAM57A:miR-302c
rs1064245	chr17:591736	FAM57A:miR-302d
rs1064245	chr17:591736	FAM57A:miR-373
rs1064245	chr17:591736	FAM57A:miR-520a
rs1064245	chr17:591736	FAM57A:miR-520b

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1064245	chr17:591736	FAM57A:miR-520c
rs1064245	chr17:591736	FAM57A:miR-520d
rs1064245	chr17:591736	FAM57A:miR-520e
rs1064245	chr17:591736	FAM57A:miR-526b*
rs1064245	chr17:591736	FAM57A:miR-106a
rs1064245	chr17:591736	FAM57A:miR-106b
rs1064245	chr17:591736	FAM57A:miR-17-5p
rs1064245	chr17:591736	FAM57A:miR-20a
rs1064245	chr17:591736	FAM57A:miR-20b
rs4025784	chr17:855647	ABR:miR-185
rs35236437	chr17:855650	ABR:miR-185
rs35236437	chr17:855650	ABR:miR-485-5p
rs55973954	chr17:855651	ABR:miR-185
rs55973954	chr17:855651	ABR:miR-485-5p
rs1804636	chr17:1194932	YWHAE:miR-103
rs1804636	chr17:1194932	YWHAE:miR-107
rs191652	chr17:1195215	YWHAE:miR-128a
rs191652	chr17:1195215	YWHAE:miR-128b
rs191652	chr17:1195215	YWHAE:miR-199a*
rs7266	chr17:1195216	YWHAE:miR-128a
rs7266	chr17:1195216	YWHAE:miR-128b
rs7266	chr17:1195216	YWHAE:miR-199a*
rs9814	chr17:1368097	PITPNA:miR-577
rs11544976	chr17:1370162	PITPNA:miR-493-3p
rs10654009	chr17:1561562	MGC14376:miR-656
rs5818826	chr17:1561566	MGC14376:miR-656
rs35346331	chr17:1561567	MGC14376:miR-656
rs17339340	chr17:1747757	RPA1:miR-18a*
rs1804586	chr17:1892981	DPH1:miR-302a*
rs35343613	chr17:2174405	SRR:miR-588
rs2273983	chr17:2174738	SRR:miR-421
rs2273983	chr17:2174738	SRR:miR-302b*
rs35049209	chr17:2234451	MNT:miR-562
rs35049209	chr17:2234451	MNT:miR-646
rs2447096	chr17:2234641	MNT:miR-210
rs1050061	chr17:2532313	PFAFH1B1:miR-600
rs59721618	chr17:2532639	PFAFH1B1:miR-633
rs12452806	chr17:2535296	PFAFH1B1:miR-646
rs12452806	chr17:2535296	PFAFH1B1:miR-562
rs58458769	chr17:2535473	PFAFH1B1:miR-132
rs58458769	chr17:2535473	PFAFH1B1:miR-212
rs35374496	chr17:3712193	CAMKK1:miR-654
rs35121541	chr17:4121912	UBE2G1:miR-583
rs2233658	chr17:4789820	PFN1:miR-140
rs3026151	chr17:5318396	DERL2:miR-767-5p
rs56388006	chr17:7034005	DLG4:miR-103
rs56388006	chr17:7034005	DLG4:miR-107
rs56388006	chr17:7034005	DLG4:miR-30a-3p
rs56388006	chr17:7034005	DLG4:miR-30e-3p
rs56388006	chr17:7034005	DLG4:miR-145
rs7502202	chr17:7034106	DLG4:miR-515-5p
rs7502202	chr17:7034106	DLG4:miR-519e*

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs7502202	chr17:7034106	DLG4:miR-186
rs5819149	chr17:7034136	DLG4:miR-221
rs3177209	chr17:7084472	GABARAP:miR-140
rs1802216	chr17:7084618	GABARAP:miR-589
rs17849664	chr17:7103684	C17orf81:miR-154
rs35778824	chr17:7156369	EIF5A:miR-642
rs3222136	chr17:7198573	KCTD11:miR-329
rs3214396	chr17:7263553	NLGN2:miR-510
rs3214396	chr17:7263553	NLGN2:miR-637
rs34779616	chr17:7304175	ZBTB4:miR-136
rs1133249	chr17:7415883	SENP3:miR-568
rs58537439	chr17:7415883	SENP3:miR-568
rs58805209	chr17:7415885	SENP3:miR-568
rs11553167	chr17:7698538	JMJD3:miR-571
rs34543626	chr17:7755892	CHD3:miR-768-5p
rs1048750	chr17:7984600	PER1:miR-580
rs1048750	chr17:7984600	PER1:miR-614
rs2735608	chr17:7984604	PER1:miR-580
rs2735608	chr17:7984604	PER1:miR-614
rs2735608	chr17:7984604	PER1:miR-661
rs1051780	chr17:8003781	VAMP2:miR-34b
rs12940891	chr17:8017607	TMEM107:miR-552
rs17852347	chr17:8311051	NDEL1:miR-650
rs8067822	chr17:8311072	NDEL1:miR-485-5p
rs1042626	chr17:8318829	MYH10:miR-660
rs961	chr17:8319657	MYH10:miR-568
rs9889875	chr17:9087984	NTN1:miR-323
rs9889875	chr17:9087984	NTN1:miR-662
rs1804193	chr17:15074731	PMP22:miR-559
rs8076239	chr17:15432968	CDRT1:miR-513
rs1077790	chr17:17338614	RASD1:miR-18a
rs1077790	chr17:17338614	RASD1:miR-18b
rs9914083	chr17:17687821	TOM1L2:miR-19a
rs9914083	chr17:17687821	TOM1L2:miR-19b
rs10648639	chr17:17910490	C17orf39:miR-521
rs1133710	chr17:17912107	C17orf39:miR-559
rs11548435	chr17:18775163	PRPSAP2:miR-524*
rs11548435	chr17:18775163	PRPSAP2:miR-520d*
rs59574455	chr17:19619243	ULK2:miR-299-3p
rs59574455	chr17:19619243	ULK2:miR-28
rs59574455	chr17:19619243	ULK2:miR-618
rs34676938	chr17:23546076	NLK:miR-659
rs34739978	chr17:23546104	NLK:miR-494
rs34739978	chr17:23546104	NLK:miR-641
rs35187605	chr17:23546136	NLK:miR-132
rs35187605	chr17:23546136	NLK:miR-212
rs3179941	chr17:23965606	KIAA0100:miR-511
rs3208128	chr17:24065617	RAB34:miR-637
rs2288594	chr17:24107285	C17orf63:miR-122a
rs1060351	chr17:24230511	FLOT2:miR-361
rs1060247	chr17:24231579	FLOT2:miR-103
rs1060247	chr17:24231579	FLOT2:miR-107

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs4795478	chr17:24306106	SEZ6:miR-577
rs1049878	chr17:24424746	MYO18A:miR-185
rs1049877	chr17:24424748	MYO18A:miR-185
rs8614	chr17:24612932	NUFIP2:miR-365
rs35981445	chr17:24613871	NUFIP2:miR-382
rs3211044	chr17:24925184	GIT1:miR-183
rs1046243	chr17:24977168	SSH2:miR-553
rs56295612	chr17:24977271	SSH2:miR-105
rs56295612	chr17:24977271	SSH2:miR-519e
rs56280221	chr17:27721526	ZNF207:miR-568
rs59705321	chr17:28364848	ACCN1:miR-657
rs28932	chr17:28364860	ACCN1:miR-635
rs11543122	chr17:30314127	CCDC16:miR-191
rs14617	chr17:31077509	AP2B1:miR-381
rs10962	chr17:33120564	HNF1B:miR-382
rs11545641	chr17:33120564	HNF1B:miR-382
rs15083	chr17:34139350	MLLT6:miR-502
rs35027897	chr17:34814986	MED1:miR-149
rs34115897	chr17:35014060	NEUROD2:miR-210
rs449430	chr17:35015032	NEUROD2:miR-331
rs408262	chr17:35015033	NEUROD2:miR-331
rs45540732	chr17:35076283	TCAP:miR-637
rs1044675	chr17:35330858	ORMDL3:miR-429
rs11543298	chr17:35688284	WIRE:miR-650
rs1057988	chr17:37100680	EIF1:miR-649
rs11550320	chr17:37100703	EIF1:miR-656
rs5001709	chr17:37134071	HAP1:miR-339
rs12451233	chr17:37212653	SC65:miR-522
rs1802740	chr17:37531149	RAB5C:miR-18a
rs1802740	chr17:37531149	RAB5C:miR-18b
rs15456	chr17:37604923	STAT5B:miR-539
rs34694406	chr17:37605734	STAT5B:miR-330
rs1803126	chr17:37721135	STAT3:miR-137
rs1051166	chr17:37985114	LOC162427:miR-27a
rs1051166	chr17:37985114	LOC162427:miR-27b
rs61754308	chr17:38184656	VPS25:miR-671
rs1056730	chr17:38248603	PSME3:miR-516-5p
rs11539629	chr17:38421179	VAT1:miR-422a
rs11539629	chr17:38421179	VAT1:miR-600
rs11539629	chr17:38421179	VAT1:miR-376a
rs11539629	chr17:38421179	VAT1:miR-376b
rs11539629	chr17:38421179	VAT1:miR-513
rs56108540	chr17:38450993	BRCA1:miR-539
rs1803040	chr17:38833708	ARL4D:miR-96
rs11556733	chr17:39073421	MEOX1:miR-579
rs11556733	chr17:39073421	MEOX1:miR-182
rs36087185	chr17:39441544	NAGS:miR-135a
rs36087185	chr17:39441544	NAGS:miR-135b
rs35468252	chr17:39469019	LSM12:miR-642
rs60649099	chr17:40233373	GJA7:miR-210
rs11539537	chr17:41463535	KIAA1267:miR-605
rs9908452	chr17:42196955	WNT3:miR-198

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs41482350	chr17:42743754	ITGB3:miR-453
rs1801416	chr17:43054778	NPEPPS:miR-586
rs8065920	chr17:43115112	KPNB1:miR-96
rs8070379	chr17:43115348	KPNB1:miR-580
rs59388318	chr17:43115355	KPNB1:miR-432
rs1136638	chr17:43115445	KPNB1:miR-581
rs12938318	chr17:43115653	KPNB1:miR-544
rs1140490	chr17:43502447	CBX1:miR-208
rs1140490	chr17:43502447	CBX1:miR-577
rs1140490	chr17:43502447	CBX1:miR-548a
rs1063487	chr17:43502490	CBX1:miR-561
rs1042822	chr17:43975094	HOXB2:miR-186
rs41306359	chr17:43975132	HOXB2:miR-583
rs35764080	chr17:43981511	HOXB3:miR-511
rs3087996	chr17:44024362	HOXB5:miR-633
rs8844	chr17:44053709	HOXB9:miR-181a*
rs45453994	chr17:44054428	HOXB9:miR-765
rs2280354	chr17:44158832	HOXB13:miR-517*
rs11557620	chr17:44361384	UBE2Z:miR-583
rs55849957	chr17:44655990	PHOSPHO1:miR-197
rs59034311	chr17:45031683	SPOP:miR-186
rs11334194	chr17:45032316	SPOP:miR-548c
rs3803876	chr17:45422438	DLX3:miR-485-5p
rs3744540	chr17:45423820	DLX3:miR-184
rs12944834	chr17:45616554	COL1A1:miR-516-3p
rs1802390	chr17:46184962	CROP:miR-520a*
rs1802390	chr17:46184962	CROP:miR-525
rs3182457	chr17:46185001	CROP:miR-542-3p
rs56106159	chr17:46295266	TOB1:miR-186
rs8125	chr17:46398347	SPAG9:miR-411
rs13293	chr17:47063538	CA10:miR-524*
rs13293	chr17:47063538	CA10:miR-527
rs11871885	chr17:47063620	CA10:miR-499
rs35218139	chr17:50754775	HLF:miR-302a*
rs59212690	chr17:50755318	HLF:miR-203
rs34087945	chr17:50755920	HLF:miR-769-5p
rs34447290	chr17:50825120	MMD:miR-653
rs34447290	chr17:50825120	MMD:miR-570
rs34447290	chr17:50825120	MMD:miR-214
rs1442829	chr17:52027362	NOG:miR-608
rs1236187	chr17:52027392	NOG:miR-561
rs2332862	chr17:52371291	COIL:let-7e
rs12450649	chr17:53111988	MSI2:miR-601
rs11538393	chr17:53112128	MSI2:miR-589
rs4793924	chr17:53405033	ZNF161:miR-122a
rs2333076	chr17:53406273	ZNF161:miR-587
rs2233912	chr17:53437722	SFRS1:miR-7
rs2233912	chr17:53437722	SFRS1:miR-146a
rs2233912	chr17:53437722	SFRS1:miR-146b
rs3087762	chr17:53923679	MTMR4:miR-455
rs34197394	chr17:53953172	SEPT4:miR-491
rs17741424	chr17:53953990	SEPT4:miR-106a



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs17741424	chr17:53953990	SEPT4:miR-106b
rs17741424	chr17:53953990	SEPT4:miR-17-5p
rs17741424	chr17:53953990	SEPT4:miR-20a
rs17741424	chr17:53953990	SEPT4:miR-20b
rs7502088	chr17:54415865	PPM1E:miR-197
rs58549129	chr17:54829449	YPEL2:miR-432*
rs1804076	chr17:55126445	CLTC:miR-199a
rs1804076	chr17:55126445	CLTC:miR-199b
rs11542762	chr17:55126456	CLTC:miR-643
rs11542762	chr17:55126456	CLTC:miR-431
rs1051424	chr17:55379106	RPS6KB1:miR-507
rs1051424	chr17:55379106	RPS6KB1:miR-129
rs11549046	chr17:55379504	RPS6KB1:miR-609
rs11555598	chr17:55381570	RPS6KB1:miR-518a
rs11555598	chr17:55381570	RPS6KB1:miR-518e
rs11555598	chr17:55381570	RPS6KB1:miR-518f
rs11555598	chr17:55381570	RPS6KB1:miR-518b
rs11555598	chr17:55381570	RPS6KB1:miR-518c
rs11555598	chr17:55381570	RPS6KB1:miR-518d
rs34061743	chr17:55381788	RPS6KB1:miR-548c
rs34061743	chr17:55381788	RPS6KB1:miR-384
rs8067625	chr17:55611023	USP32:miR-149
rs9912117	chr17:55875610	APPBP2:miR-590
rs61093408	chr17:55875809	APPBP2:miR-640
rs62082109	chr17:55879393	APPBP2:miR-522
rs729781	chr17:56841581	TBX2:miR-581
rs729781	chr17:56841581	TBX2:miR-129
rs729781	chr17:56841581	TBX2:miR-578
rs59569849	chr17:56916418	TBX4:miR-542-3p
rs35206655	chr17:57297754	INTS2:miR-640
rs35206655	chr17:57297754	INTS2:miR-122a
rs35753433	chr17:57298106	INTS2:miR-136
rs35623549	chr17:57377634	THRAP1:miR-522
rs35623549	chr17:57377634	THRAP1:miR-140
rs1044520	chr17:57378349	THRAP1:miR-134
rs1044519	chr17:57378383	THRAP1:miR-374
rs9562	chr17:58044189	TLK2:miR-515-3p
rs4058577	chr17:58044351	TLK2:miR-765
rs4058577	chr17:58044351	TLK2:miR-184
rs11268289	chr17:58856192	TANC2:miR-522
rs8072447	chr17:58856670	TANC2:miR-489
rs63638460	chr17:58858504	TANC2:miR-586
rs1046232	chr17:59126994	LIMD2:miR-382
rs1046232	chr17:59126994	MAP3K3:miR-424
rs1046232	chr17:59126994	MAP3K3:miR-802
rs35239390	chr17:59263178	SMARCD2:miR-577
rs11558316	chr17:59263450	SMARCD2:miR-185
rs17854931	chr17:59326154	CSH1:miR-767-5p
rs1050485	chr17:59926395	DDX5:miR-33b
rs9906078	chr17:59971970	SMURF2:miR-524*
rs55927114	chr17:60437638	GNA13:miR-335
rs57572316	chr17:62504312	HELZ:miR-320

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3205586	chr17:63409662	BPTF:miR-186
rs1132844	chr17:63409664	BPTF:miR-524*
rs11540571	chr17:64038336	PRKAR1A:miR-580
rs17399600	chr17:64038395	PRKAR1A:miR-587
rs57140103	chr17:65684605	KCNJ2:miR-193a
rs11555394	chr17:67633429	SOX9:miR-633
rs11555393	chr17:67633432	SOX9:miR-633
rs35490076	chr17:67633837	SOX9:miR-577
rs11555392	chr17:67634027	SOX9:miR-495
rs34511924	chr17:70643677	HN1:miR-148b
rs34511924	chr17:70643677	HN1:miR-152
rs3178287	chr17:70643683	HN1:miR-106a
rs3178287	chr17:70643683	HN1:miR-106b
rs3178287	chr17:70643683	HN1:miR-17-5p
rs3178287	chr17:70643683	HN1:miR-20a
rs3178287	chr17:70643683	HN1:miR-20b
rs3178287	chr17:70643683	HN1:miR-302a
rs3178287	chr17:70643683	HN1:miR-302b
rs3178287	chr17:70643683	HN1:miR-302c
rs3178287	chr17:70643683	HN1:miR-302d
rs3178287	chr17:70643683	HN1:miR-373
rs3178287	chr17:70643683	HN1:miR-520a
rs3178287	chr17:70643683	HN1:miR-520b
rs3178287	chr17:70643683	HN1:miR-520c
rs3178287	chr17:70643683	HN1:miR-520d
rs3178287	chr17:70643683	HN1:miR-520e
rs3178287	chr17:70643683	HN1:miR-526b*
rs3178287	chr17:70643683	HN1:miR-520f
rs3205678	chr17:70675673	SUMO2:miR-553
rs3073415	chr17:71285962	H3F3B:miR-10a
rs3073415	chr17:71285962	H3F3B:miR-10b
rs2410861	chr17:71286060	H3F3B:miR-544
rs2410863	chr17:71286099	H3F3B:miR-323
rs3073438	chr17:71286183	H3F3B:miR-656
rs35916120	chr17:71286200	H3F3B:miR-600
rs58629675	chr17:71333191	ZC3H5:miR-612
rs2305912	chr17:71333225	ZC3H5:miR-589
rs13588	chr17:72242181	SFRS2:miR-33b
rs5822151	chr17:72458004	MGAT5B:miR-185
rs55928940	chr17:74596047	FLJ21865:miR-544
rs59650175	chr17:75421687	CBX4:miR-129
rs59650175	chr17:75421687	CBX4:miR-557
rs1062935	chr17:76554452	KIAA1303:miR-495
rs8071392	chr17:76705698	BAIAP2:miR-577
rs8071392	chr17:76705698	BAIAP2:miR-208
rs63611560	chr17:77047805	BAHCC1:miR-548c
rs1140892	chr17:77091951	ACTG1:miR-10a
rs1140892	chr17:77091951	ACTG1:miR-10b
rs56201915	chr17:77092121	ACTG1:miR-381
rs11549163	chr17:77092126	ACTG1:miR-381
rs1804578	chr17:77795564	CSNK1D:miR-31
rs55831128	chr17:78153492	FOXK2:miR-495

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs11558343	chr17:78153493	FOXK2:miR-495
rs35919262	chr17:78208489	RAB40B:miR-621
rs10660	chr18:309446	COLEC12:miR-671
rs62090090	chr18:639878	C18orf56:miR-511
rs1058150	chr18:639879	C18orf56:miR-511
rs1058149	chr18:639881	C18orf56:miR-511
rs17881528	chr18:2907151	LPIN2:miR-590
rs1164	chr18:2907152	LPIN2:miR-590
rs14916	chr18:2907276	LPIN2:miR-516-5p
rs1057096	chr18:5280443	ZFP161:miR-801
rs2726349	chr18:8629123	RAB12:miR-383
rs11665124	chr18:8821615	KIAA0802:let-7a
rs11665124	chr18:8821615	KIAA0802:let-7b
rs11665124	chr18:8821615	KIAA0802:let-7c
rs11665124	chr18:8821615	KIAA0802:let-7d
rs11665124	chr18:8821615	KIAA0802:let-7f
rs11665124	chr18:8821615	KIAA0802:let-7g
rs11665124	chr18:8821615	KIAA0802:let-7i
rs11665124	chr18:8821615	KIAA0802:miR-98
rs11665124	chr18:8821615	KIAA0802:miR-589
rs60958789	chr18:9271555	ANKRD12:miR-592
rs1046483	chr18:9271567	ANKRD12:miR-539
rs3025554	chr18:9944459	VAPA:miR-368
rs3025554	chr18:9944459	VAPA:miR-376a
rs3025554	chr18:9944459	VAPA:miR-376b
rs3025552	chr18:9944725	VAPA:miR-513
rs3025537	chr18:9946752	VAPA:miR-559
rs14376	chr18:12436799	SPIRE1:miR-577
rs36120777	chr18:12775582	PTPN2:miR-544
rs4797703	chr18:12783717	PTPN2:miR-542-3p
rs11548616	chr18:12975371	SEH1L:miR-138
rs3842394	chr18:13640245	C18orf1:miR-424
rs35909670	chr18:13640246	C18orf1:miR-424
rs1801481	chr18:13642609	C18orf1:miR-601
rs16940945	chr18:13655896	C18orf19:miR-148b
rs16940945	chr18:13655896	C18orf19:miR-152
rs14462	chr18:16784002	ROCK1:miR-323
rs55795401	chr18:21850275	SS18:miR-142-5p
rs55795401	chr18:21850275	SS18:miR-520g
rs55795401	chr18:21850275	SS18:miR-520h
rs55652041	chr18:21851649	SS18:miR-373*
rs55652041	chr18:21851649	SS18:miR-616
rs607404	chr18:21852158	SS18:miR-520d*
rs1129711	chr18:22224907	TAF4B:miR-589
rs1129713	chr18:22225438	TAF4B:miR-653
rs8085080	chr18:22289253	KCTD1:miR-609
rs61327137	chr18:22687516	AQP4:miR-579
rs11557239	chr18:22687531	AQP4:miR-145
rs59062970	chr18:22750094	CHST9:miR-548c
rs17467899	chr18:23785225	CDH2:miR-186
rs17467906	chr18:23785227	CDH2:miR-186
rs11564422	chr18:23786078	CDH2:miR-382

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs985861	chr18:26964617	DSC1:miR-302a*
rs9966608	chr18:27458573	B4GALT6:miR-587
rs36074374	chr18:27963444	RNF138:miR-539
rs676608	chr18:28101494	FAM59A:miR-145
rs682224	chr18:28101501	FAM59A:miR-9
rs35966049	chr18:29581065	ASXL3:miR-154*
rs35966049	chr18:29581065	ASXL3:miR-487a
rs1045954	chr18:29685527	NOL4:miR-9*
rs1045954	chr18:29685527	NOL4:miR-610
rs61439219	chr18:29686095	NOL4:let-7a
rs61439219	chr18:29686095	NOL4:let-7b
rs61439219	chr18:29686095	NOL4:let-7c
rs61439219	chr18:29686095	NOL4:let-7d
rs61439219	chr18:29686095	NOL4:let-7f
rs61439219	chr18:29686095	NOL4:let-7g
rs61439219	chr18:29686095	NOL4:let-7i
rs61439219	chr18:29686095	NOL4:miR-98
rs9950418	chr18:30722110	DTNA:miR-527
rs674338	chr18:30725206	DTNA:miR-548c
rs1131709	chr18:31141912	ZNF271:miR-140
rs1804714	chr18:31170343	ZNF24:miR-581
rs2974910	chr18:31170367	ZNF24:miR-302b*
rs2974910	chr18:31170367	ZNF24:miR-505
rs11659769	chr18:31302399	C18orf37:miR-625
rs14735	chr18:31942579	SLC39A6:miR-568
rs17721715	chr18:39101906	SYT4:miR-154*
rs17721715	chr18:39101906	SYT4:miR-487a
rs17721715	chr18:39101906	SYT4:miR-487b
rs1056570	chr18:40898133	SETBP1:miR-548d
rs1056570	chr18:40898133	SETBP1:miR-577
rs1056571	chr18:40898137	SETBP1:miR-577
rs2298817	chr18:43621709	SMAD2:miR-656
rs10553700	chr18:44643024	KIAA0427:miR-383
rs34553035	chr18:44643032	KIAA0427:miR-577
rs16950113	chr18:44700587	SMAD7:miR-375
rs16950113	chr18:44700587	SMAD7:miR-579
rs57818618	chr18:45604546	MYO5B:miR-621
rs1049875	chr18:46858926	SMAD4:miR-589
rs28575857	chr18:46955829	RKHD2:miR-559
rs28575857	chr18:46955829	RKHD2:miR-577
rs56093302	chr18:46956089	RKHD2:miR-635
rs7241067	chr18:49935410	MBD2:miR-25
rs7241067	chr18:49935410	MBD2:miR-367
rs7241067	chr18:49935410	MBD2:miR-92
rs7241067	chr18:49935410	MBD2:miR-92b
rs35250997	chr18:50075050	POLL:miR-522
rs35309239	chr18:51041911	TCF4:miR-511
rs11429	chr18:51042527	TCF4:miR-32
rs9951787	chr18:51043304	TCF4:miR-221
rs59885579	chr18:51045490	TCF4:miR-548c
rs2510126	chr18:51045896	TCF4:miR-600
rs1801947	chr18:52421086	TXNL1:miR-582

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3981373	chr18:53179985	ST8SIA3:miR-583
rs5825222	chr18:53295027	ONECUT2:miR-511
rs12963672	chr18:53295932	ONECUT2:miR-372
rs12963672	chr18:53295932	ONECUT2:miR-93
rs12963672	chr18:53295932	ONECUT2:miR-106a
rs12963672	chr18:53295932	ONECUT2:miR-106b
rs12963672	chr18:53295932	ONECUT2:miR-17-5p
rs12963672	chr18:53295932	ONECUT2:miR-20a
rs12963672	chr18:53295932	ONECUT2:miR-20b
rs58495971	chr18:53296493	ONECUT2:miR-758
rs648377	chr18:53296573	ONECUT2:miR-508
rs3745065	chr18:53304810	ONECUT2:miR-553
rs1129621	chr18:53464781	ATP8B1:miR-382
rs11353228	chr18:54214926	NEDD4L:miR-106a
rs11353228	chr18:54214926	NEDD4L:miR-106b
rs11353228	chr18:54214926	NEDD4L:miR-17-5p
rs11353228	chr18:54214926	NEDD4L:miR-20a
rs11353228	chr18:54214926	NEDD4L:miR-20b
rs1052814	chr18:54803939	ZNF532:miR-527
rs1052814	chr18:54803939	ZNF532:miR-520g
rs1052814	chr18:54803939	ZNF532:miR-520h
rs1052816	chr18:54803945	ZNF532:miR-520g
rs1052816	chr18:54803945	ZNF532:miR-520h
rs1045941	chr18:58123852	KIAA1468:miR-335
rs3833190	chr18:58395741	ZCCHC2:miR-141
rs3833190	chr18:58395741	ZCCHC2:miR-200a
rs3833190	chr18:58395741	ZCCHC2:miR-429
rs10658978	chr18:58798068	PHLPP:miR-589
rs10658978	chr18:58798068	PHLPP:miR-589
rs5825501	chr18:58798083	PHLPP:miR-589
rs5825501	chr18:58798083	PHLPP:miR-589
rs34558028	chr18:58798084	PHLPP:miR-589
rs34558028	chr18:58798084	PHLPP:miR-589
rs3087164	chr18:58798093	PHLPP:miR-577
rs58389009	chr18:58798093	PHLPP:miR-577
rs34964253	chr18:59721796	SERPINB2:miR-802
rs56128444	chr18:63329100	C18orf4:miR-603
rs35365006	chr18:65660358	DOK6:miR-101
rs41320044	chr18:66145069	SOCS6:miR-190
rs1047668	chr18:66145070	SOCS6:miR-190
rs7359801	chr18:66148231	SOCS6:miR-329
rs17056648	chr18:71039765	ZADH2:miR-801
rs632157	chr18:71040536	ZADH2:miR-644
rs34141185	chr18:71250927	LOC284274:miR-627
rs34141185	chr18:71250927	LOC284274:miR-502
rs35079808	chr18:72201678	ZNF516:miR-451
rs35079808	chr18:72201678	ZNF516:miR-26a
rs35079808	chr18:72201678	ZNF516:miR-26b
rs36173648	chr18:72201759	ZNF516:miR-633
rs36173648	chr18:72201759	ZNF516:miR-633
rs36173648	chr18:72201759	ZNF516:miR-633
rs60337965	chr18:72201765	ZNF516:miR-633

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs60337965	chr18:72201765	ZNF516:miR-380-3p
rs60337965	chr18:72201765	ZNF516:miR-633
rs34596157	chr18:72201768	ZNF516:miR-380-3p
rs34596157	chr18:72201768	ZNF516:miR-633
rs9199	chr18:72821324	MBP:miR-196a
rs9199	chr18:72821324	MBP:miR-196b
rs7964	chr18:72855106	MBP:miR-455
rs34639588	chr18:74858877	SALL3:miR-154*
rs34639588	chr18:74858877	SALL3:miR-487a
rs10404848	chr19:763013	PTBP1:miR-507
rs11549884	chr19:763026	PTBP1:miR-186
rs14613	chr19:763209	PTBP1:miR-522
rs1803282	chr19:1224079	CIRBP:miR-122a
rs1061828	chr19:1876970	SCAMP4:miR-410
rs1801938	chr19:2052071	AP3D1:miR-613
rs1801938	chr19:2052071	AP3D1:miR-409-3p
rs1801940	chr19:2052165	AP3D1:miR-573
rs56065950	chr19:2787196	ZNF554:miR-100
rs56065950	chr19:2787196	ZNF554:miR-99a
rs56065950	chr19:2787196	ZNF554:miR-99b
rs11556288	chr19:3072334	GNA11:miR-548d
rs11556288	chr19:3072334	GNA11:miR-577
rs3746065	chr19:3160559	NCLN:miR-135a
rs3746065	chr19:3160559	NCLN:miR-135b
rs3746065	chr19:3160559	NCLN:miR-584
rs60115562	chr19:3997447	ZBTB7A:miR-511
rs35852038	chr19:4453200	KIAA1881:miR-522
rs35852038	chr19:4453200	KIAA1881:miR-140
rs8887	chr19:4453201	KIAA1881:miR-522
rs8887	chr19:4453201	KIAA1881:miR-140
rs8887	chr19:4453201	HDGF2:miR-548d
rs12840	chr19:5156626	PTPRS:miR-492
rs60505727	chr19:5156956	PTPRS:miR-190
rs10615177	chr19:6364676	KHSRP:miR-561
rs1049232	chr19:6702293	TRIP10:miR-519a
rs1049232	chr19:6702293	TRIP10:miR-519b
rs1049232	chr19:6702293	TRIP10:miR-519c
rs1049232	chr19:6702293	TRIP10:miR-18a
rs1049232	chr19:6702293	TRIP10:miR-18b
rs3209638	chr19:7066883	INSR:miR-135a
rs3209638	chr19:7066883	INSR:miR-135b
rs4804293	chr19:7067706	INSR:miR-593
rs4804293	chr19:7067706	INSR:miR-545
rs11465404	chr19:7712483	CD209:miR-624
rs2307000	chr19:7835531	EVI5L:miR-96
rs62123115	chr19:7930161	ELAVL1:miR-559
rs59164681	chr19:8233139	LASS4:miR-650
rs59164681	chr19:8233139	LASS4:miR-620
rs12977468	chr19:9624152	ZNF562:miR-622
rs45587445	chr19:10439915	PDE4A:miR-7
rs1140864	chr19:10524791	ATG4D:miR-577
rs3745257	chr19:10525008	ATG4D:miR-19a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3745257	chr19:10525008	ATG4D:miR-19b
rs11543972	chr19:10893915	CARM1:miR-563
rs10418658	chr19:11033783	SMARCA4:miR-101
rs892113	chr19:11136934	ANKRD25:miR-526b
rs892113	chr19:11136934	ANKRD25:miR-432
rs56214729	chr19:11425661	ELAVL3:miR-511
rs1052589	chr19:12702485	MGC2803:miR-384
rs1061500	chr19:12764933	JUNB:miR-663
rs35777282	chr19:13178346	CACNA1A:miR-583
rs3087661	chr19:14091397	ASF1B:miR-424
rs3177148	chr19:15086519	SYDE1:miR-151
rs10236	chr19:15086619	SYDE1:miR-125a
rs10236	chr19:15086619	SYDE1:miR-125b
rs3177151	chr19:15086787	SYDE1:miR-649
rs7247906	chr19:15132135	NOTCH3:miR-559
rs7247906	chr19:15132135	NOTCH3:miR-577
rs11555160	chr19:15218942	BRD4:miR-568
rs11555160	chr19:15218942	BRD4:miR-524*
rs15308	chr19:15394032	WIZ:miR-559
rs15308	chr19:15394032	WIZ:miR-577
rs35085716	chr19:17184410	MYO9B:miR-524*
rs1044693	chr19:18840010	UPF1:miR-542-3p
rs1064393	chr19:19221862	CSPG3:miR-568
rs60363472	chr19:19864803	ZNF253:miR-340
rs7250542	chr19:20595418	ZNF626:miR-26a
rs7250542	chr19:20595418	ZNF626:miR-26b
rs7250542	chr19:20595418	ZNF626:miR-15a
rs7250542	chr19:20595418	ZNF626:miR-15b
rs7250542	chr19:20595418	ZNF626:miR-16
rs7250542	chr19:20595418	ZNF626:miR-195
rs7250542	chr19:20595418	ZNF626:miR-497
rs12150926	chr19:20598417	ZNF626:miR-151
rs34694861	chr19:23715184	ZNF681:miR-613
rs3218074	chr19:35007016	CCNE1:miR-15a
rs3218074	chr19:35007016	CCNE1:miR-15b
rs3218074	chr19:35007016	CCNE1:miR-16
rs3218074	chr19:35007016	CCNE1:miR-195
rs3218074	chr19:35007016	CCNE1:miR-497
rs3745796	chr19:35740560	ZNF536:miR-10a
rs3745796	chr19:35740560	ZNF536:miR-10b
rs8151	chr19:36457892	TSHZ3:miR-765
rs1048011	chr19:36457897	TSHZ3:miR-765
rs1048011	chr19:36457897	TSHZ3:miR-191
rs36121535	chr19:37567666	ZNF507:miR-583
rs36113389	chr19:37779865	ANKRD27:miR-493-5p
rs58260322	chr19:37779916	ANKRD27:miR-513
rs34017519	chr19:38483051	CEBPA:miR-548d
rs34017519	chr19:38483051	CEBPA:miR-488
rs34017519	chr19:38483051	CEBPA:miR-577
rs41367646	chr19:38483723	CEBPA:miR-488
rs1044041	chr19:39410783	LSM14A:miR-381
rs1043070	chr19:39652248	UBA2:miR-609

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs11538138	chr19:39652449	UBA2:miR-153
rs1802473	chr19:39652609	UBA2:miR-659
rs10561	chr19:40462485	USF2:miR-587
rs2239915	chr19:41198079	CLIPR-59:miR-515-5p
rs2239915	chr19:41198079	CLIPR-59:miR-519e*
rs34359575	chr19:43389905	SIPA1L3:miR-511
rs55808893	chr19:43912057	ACTN4:miR-766
rs55808893	chr19:43912057	ACTN4:miR-18a*
rs55808893	chr19:43912057	ACTN4:miR-346
rs55808893	chr19:43912057	ACTN4:miR-596
rs3208236	chr19:43912847	ACTN4:miR-518c*
rs3208236	chr19:43912847	CAPN12:miR-518f*
rs3208236	chr19:43912847	CAPN12:miR-520a*
rs3208236	chr19:43912847	CAPN12:miR-525
rs3208236	chr19:43912847	CAPN12:miR-526a
rs3208236	chr19:43912847	CAPN12:miR-526c
rs36122262	chr19:44019103	HNRPL:miR-583
rs34202355	chr19:44591692	ZFP36:miR-651
rs17879933	chr19:44591762	ZFP36:miR-583
rs14860	chr19:44591764	ZFP36:miR-656
rs1042905	chr19:44591831	ZFP36:miR-633
rs1049717	chr19:45576171	PLD3:miR-654
rs11555184	chr19:45773895	SPTBN4:miR-559
rs34788614	chr19:46006026	EGLN2:miR-645
rs35253707	chr19:46214827	CYP2B6:miR-612
rs35253707	chr19:46214827	CYP2B6:miR-635
rs35253707	chr19:46214827	CYP2B6:miR-661
rs35584276	chr19:46215360	CYP2B6:miR-566
rs62119601	chr19:47285740	POU2F2:miR-568
rs1052054	chr19:47491554	CIC:miR-625
rs1052064	chr19:47491606	CIC:miR-18a
rs1052064	chr19:47491606	CIC:miR-18b
rs1052064	chr19:47491606	CIC:miR-520g
rs1052064	chr19:47491606	CIC:miR-520h
rs1046880	chr19:49954763	BCL3:miR-513
rs1046881	chr19:49954765	BCL3:miR-513
rs28381258	chr19:50669274	FOSB:miR-571
rs1801948	chr19:50680446	RTN2:miR-326
rs1051898	chr19:50721705	VASP:miR-583
rs10426889	chr19:51585798	PPP5C:miR-202*
rs45474992	chr19:52416404	BBC3:miR-149
rs7251936	chr19:53833095	CA11:miR-630
rs11553314	chr19:54161929	FTL:miR-579
rs1042336	chr19:54163259	GYS1:miR-483
rs4802546	chr19:54262498	KCNA7:miR-26a
rs4802546	chr19:54262498	KCNA7:miR-26b
rs1043534	chr19:54625311	SLC17A7:miR-125a
rs1043534	chr19:54625311	SLC17A7:miR-125b
rs11047	chr19:55055689	PTOV1:miR-597
rs41483344	chr19:55578023	NR1H2:miR-577
rs3890434	chr19:56524083	LOC402665:miR-608
rs60928654	chr19:56524920	LOC402665:miR-138



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs11318311	chr19:57708403	ZNF578:miR-583
rs1139938	chr19:58034311	ZNF468:miR-136
rs1139938	chr19:58034311	ZNF468:miR-340
rs35645066	chr19:59664067	LENG8:miR-491
rs3745438	chr19:59664730	LENG8:miR-583
rs1058511	chr19:60551251	SUV420H2:miR-498
rs6050226	chr20:256923	SOX12:miR-485-5p
rs1047548	chr20:257075	SOX12:miR-492
rs1056976	chr20:412502	CSNK2A1:miR-564
rs6116987	chr20:590750	SCRT2:miR-527
rs45553532	chr20:1298300	FKBP1A:miR-424
rs11550413	chr20:1298481	FKBP1A:miR-412
rs55761341	chr20:1868489	SIRPA:miR-561
rs56411057	chr20:1868490	SIRPA:miR-561
rs3209499	chr20:2077179	STK35:miR-135a
rs3209499	chr20:2077179	STK35:miR-135b
rs11538787	chr20:3178050	C20orf194:miR-559
rs11481874	chr20:3575840	ATRN:miR-582
rs11481874	chr20:3575840	ATRN:miR-153
rs11481874	chr20:3575840	ATRN:miR-557
rs11481874	chr20:3575840	ATRN:miR-129
rs34162845	chr20:3575841	ATRN:miR-153
rs34162845	chr20:3575841	ATRN:miR-557
rs34162845	chr20:3575841	ATRN:miR-129
rs3830952	chr20:3575846	ATRN:miR-129
rs10626102	chr20:3575925	ATRN:miR-579
rs33918224	chr20:3575926	ATRN:miR-579
rs1064833	chr20:3576312	ATRN:miR-576
rs3215678	chr20:3579520	ATRN:miR-496
rs34563953	chr20:4782225	SLC23A2:miR-642
rs1131382	chr20:4782338	SLC23A2:miR-144
rs1131382	chr20:4782338	SLC23A2:miR-142-5p
rs2715	chr20:5029049	C20orf30:miR-137
rs2821	chr20:5853779	CHGB:miR-363*
rs6140085	chr20:6708128	BMP2:miR-568
rs35995067	chr20:6708561	BMP2:miR-204
rs35995067	chr20:6708561	BMP2:miR-211
rs55856286	chr20:7812081	HAO1:miR-335
rs6077451	chr20:8811420	PLCB1:miR-559
rs41275596	chr20:8811458	PLCB1:miR-517*
rs11906786	chr20:8812492	PLCB1:miR-527
rs3746544	chr20:10235084	SNAP25:miR-769-5p
rs1051312	chr20:10235088	SNAP25:miR-769-5p
rs1051312	chr20:10235088	SNAP25:miR-510
rs57008212	chr20:10235730	SNAP25:miR-424
rs57008212	chr20:10235730	SNAP25:miR-335
rs8636	chr20:10235742	SNAP25:miR-494
rs8636	chr20:10235742	SNAP25:miR-641
rs7828	chr20:10567014	JAG1:miR-142-5p
rs3840074	chr20:10567296	JAG1:miR-186
rs3842434	chr20:10567667	JAG1:miR-559
rs3177118	chr20:11853642	BTBD3:miR-634

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs3171277	chr20:11855051	BTBD3:miR-139
rs3171277	chr20:11855051	BTBD3:miR-17-3p
rs6660	chr20:11855058	BTBD3:miR-139
rs6660	chr20:11855058	BTBD3:miR-17-3p
rs6660	chr20:11855058	BTBD3:miR-647
rs11907325	chr20:17535933	DSTN:miR-448
rs13734	chr20:17542729	RRBP1:miR-661
rs6046271	chr20:19650171	SLC24A3:miR-452*
rs6046271	chr20:19650171	SLC24A3:miR-132
rs6046271	chr20:19650171	SLC24A3:miR-212
rs6136919	chr20:19961935	NAT5:miR-499
rs7272722	chr20:20298834	INSM1:miR-509
rs62202152	chr20:22510125	FOXA2:miR-617
rs16435	chr20:23303456	NAPB:miR-200b
rs16435	chr20:23303456	NAPB:miR-200c
rs16435	chr20:23303456	NAPB:miR-429
rs11467962	chr20:23303457	NAPB:miR-200b
rs11467962	chr20:23303457	NAPB:miR-200c
rs11467962	chr20:23303457	NAPB:miR-429
rs2811	chr20:29657909	ID1:miR-30a-3p
rs2811	chr20:29657909	ID1:miR-30e-3p
rs3208684	chr20:29716466	BCL2L1:let-7e
rs3208684	chr20:29716466	BCL2L1:miR-491
rs45565933	chr20:30082498	C20orf160:miR-562
rs1056776	chr20:30246204	PLAGL2:miR-618
rs1056776	chr20:30246204	PLAGL2:miR-370
rs34271817	chr20:30489193	ASXL1:miR-7
rs34271817	chr20:30489193	ASXL1:miR-608
rs2295762	chr20:30489196	ASXL1:miR-608
rs1061992	chr20:30900342	MAPRE1:miR-203
rs57756287	chr20:30900396	MAPRE1:miR-801
rs57756287	chr20:30900396	MAPRE1:miR-200b
rs57756287	chr20:30900396	MAPRE1:miR-200c
rs57756287	chr20:30900396	MAPRE1:miR-429
rs6119292	chr20:30901144	MAPRE1:miR-610
rs14688	chr20:30901743	MAPRE1:miR-583
rs11542525	chr20:31905632	CHMP4B:miR-607
rs34285280	chr20:32561286	ITCH:miR-95
rs1569928	chr20:32561910	ITCH:miR-186
rs56079857	chr20:32611604	MAP1LC3A:miR-637
rs7344208	chr20:32764118	TP53INP2:miR-548c
rs16440	chr20:32766463	NCOA6:miR-369-3p
rs16440	chr20:32766463	NCOA6:miR-655
rs11546156	chr20:32896676	GGTL3:miR-324-5p
rs3205397	chr20:33328155	MMP24:miR-203
rs3205397	chr20:33328155	MMP24:miR-223
rs6060538	chr20:33702241	RBM12:miR-613
rs11554015	chr20:33703498	RBM12:miR-335
rs11554016	chr20:33703775	RBM12:miR-657
rs11554016	chr20:33703775	RBM12:miR-182*
rs45605734	chr20:34000015	PHF20:miR-619
rs6121097	chr20:34000062	PHF20:miR-527

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1802290	chr20:35579491	BLCAP:miR-505
rs62206361	chr20:35584875	NNAT:miR-383
rs2037	chr20:36045078	KIAA0406:miR-494
rs3180629	chr20:39185750	TOP1:miR-382
rs15476	chr20:39186322	TOP1:miR-524*
rs57063009	chr20:39245253	ZHX3:miR-568
rs2866943	chr20:40141293	PTPRT:miR-191*
rs14957	chr20:41525623	SFRS6:miR-124a
rs11470448	chr20:42556602	C20orf121:miR-126*
rs10536269	chr20:42556606	C20orf121:miR-126*
rs11468357	chr20:42968560	YWHAB:miR-32
rs11468357	chr20:42968560	YWHAB:miR-487b
rs2741487	chr20:43387479	SDC4:miR-512-5p
rs2741487	chr20:43387479	SDC4:miR-575
rs57543404	chr20:43388458	SDC4:miR-186
rs35186241	chr20:43388461	SDC4:miR-186
rs3204367	chr20:43388463	SDC4:miR-186
rs3204368	chr20:43388463	SDC4:miR-186
rs6032451	chr20:43770465	WFDC13:miR-554
rs6032451	chr20:43770465	WFDC13:miR-182*
rs11537646	chr20:43878936	UBE2C:miR-577
rs2664528	chr20:44122137	SLC12A5:miR-128a
rs2664528	chr20:44122137	SLC12A5:miR-128b
rs11415091	chr20:44123140	NCOA5:miR-106a
rs11415091	chr20:44123140	NCOA5:miR-106b
rs11415091	chr20:44123140	NCOA5:miR-17-5p
rs11415091	chr20:44123140	NCOA5:miR-20a
rs11415091	chr20:44123140	NCOA5:miR-20b
rs6074057	chr20:44236150	CDH22:miR-132
rs6074057	chr20:44236150	CDH22:miR-212
rs57501886	chr20:45718293	NCOA3:miR-545
rs6095441	chr20:47163677	STAU1:miR-302a*
rs59249001	chr20:47163928	STAU1:miR-561
rs2664575	chr20:47295885	ZNFX1:miR-18a
rs2664575	chr20:47295885	ZNFX1:miR-18b
rs2664575	chr20:47295885	ZNFX1:miR-519a
rs2664575	chr20:47295885	ZNFX1:miR-519b
rs2664575	chr20:47295885	ZNFX1:miR-519c
rs2664575	chr20:47295885	ZNFX1:miR-153
rs59480777	chr20:47295905	ZNFX1:miR-583
rs60668569	chr20:47295907	ZNFX1:miR-583
rs60668569	chr20:47295907	ZNFX1:miR-519a
rs60668569	chr20:47295907	ZNFX1:miR-519b
rs60668569	chr20:47295907	ZNFX1:miR-519c
rs1061510	chr20:47296046	ZNFX1:miR-558
rs2664551	chr20:47422132	KCNB1:miR-511
rs2664532	chr20:48131188	UBE2V1:miR-362
rs59124899	chr20:48131930	UBE2V1:miR-135a
rs59124899	chr20:48131930	UBE2V1:miR-135b
rs6067490	chr20:48633727	PTPN1:miR-613
rs45624032	chr20:48802269	PAR6B:miR-18a
rs45624032	chr20:48802269	PAR6B:miR-18b

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs11469346	chr20:48803014	PARD6B:let-7a
rs11469346	chr20:48803014	PARD6B:let-7b
rs11469346	chr20:48803014	PARD6B:let-7c
rs11469346	chr20:48803014	PARD6B:let-7d
rs11469346	chr20:48803014	PARD6B:let-7f
rs11469346	chr20:48803014	PARD6B:let-7g
rs11469346	chr20:48803014	PARD6B:let-7i
rs11469346	chr20:48803014	PARD6B:miR-98
rs1056949	chr20:51617096	ZNF217:miR-653
rs11439533	chr20:54006173	CBLN4:miR-548b
rs11439533	chr20:54006173	CBLN4:miR-548c
rs58202615	chr20:54006174	CBLN4:miR-548b
rs58202615	chr20:54006174	CBLN4:miR-548c
rs1065289	chr20:55416187	RNPC1:miR-485-5p
rs16980970	chr20:55416264	RNPC1:miR-363
rs34804663	chr20:55656864	TMEPAI:miR-186
rs11481842	chr20:55660032	TMEPAI:miR-570
rs14856	chr20:56375783	RAB22A:miR-548c
rs6128327	chr20:56375963	RAB22A:miR-30a-5p
rs6128327	chr20:56375963	RAB22A:miR-30b
rs6128327	chr20:56375963	RAB22A:miR-30c
rs6128327	chr20:56375963	RAB22A:miR-30d
rs6128327	chr20:56375963	RAB22A:miR-30e-5p
rs6070466	chr20:56453450	VAPB:miR-578
rs61713651	chr20:56453967	VAPB:miR-153
rs14943	chr20:56687833	STX16:miR-381
rs35295928	chr20:56687929	STX16:miR-568
rs11554276	chr20:56904074	GNAS:miR-660
rs11554276	chr20:56904074	GNAS:miR-302c*
rs3730166	chr20:56912193	GNAS:miR-337
rs11554274	chr20:56913879	GNAS:miR-521
rs8620	chr20:56917636	GNAS:miR-622
rs11554273	chr20:56917815	GNAS:miR-594
rs62205367	chr20:56918147	GNAS:miR-526b
rs1802357	chr20:56918239	GNAS:miR-526b
rs3205253	chr20:56918834	GNAS:miR-326
rs11554269	chr20:56919147	GNAS:miR-34a
rs11554269	chr20:56919147	GNAS:miR-34c
rs11554269	chr20:56919147	GNAS:miR-449
rs11554269	chr20:56919147	GNAS:miR-449b
rs151357	chr20:57042450	C20orf45:miR-767-5p
rs6070699	chr20:57042613	C20orf45:miR-182
rs59109611	chr20:57267532	C20orf174:miR-589
rs1045844	chr20:57856056	PHACTR3:miR-369-3p
rs1045844	chr20:57856056	PHACTR3:miR-374
rs3833338	chr20:60902061	C20orf20:miR-33
rs3833338	chr20:60902061	C20orf20:miR-586
rs41279364	chr20:60902154	C20orf20:miR-410
rs12625609	chr20:60943383	TCFL5:miR-585
rs12625401	chr20:60943384	TCFL5:miR-585
rs10712259	chr20:61845822	SLC2A4RG:miR-302c*
rs60585835	chr20:62059092	GM632:let-7e

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs6011356	chr20:62343746	MYT1:miR-653
rs8133159	chr21:10042765	BAGE2:miR-22
rs8133159	chr21:10042765	BAGE4:miR-22
rs9712674	chr21:10042996	BAGE2:miR-422b
rs9712674	chr21:10042996	BAGE4:miR-422b
rs7278465	chr21:10048608	BAGE2:miR-410
rs7278465	chr21:10048608	BAGE5:miR-410
rs8175341	chr21:10060663	BAGE2:miR-223
rs8175341	chr21:10060663	BAGE4:miR-223
rs56253511	chr21:10060673	BAGE2:miR-134
rs56253511	chr21:10060673	BAGE4:miR-134
rs9941890	chr21:10060691	BAGE2:miR-382
rs9941890	chr21:10060691	BAGE3:miR-382
rs2698623	chr21:10061265	BAGE2:miR-452*
rs2698623	chr21:10061265	BAGE5:miR-452*
rs28571918	chr21:10071467	BAGE4:miR-32
rs17002662	chr21:14666401	STCH:miR-142-5p
rs60851456	chr21:15256230	NRIP1:miR-568
rs58275735	chr21:15256234	NRIP1:miR-568
rs58275735	chr21:15256234	NRIP1:miR-142-5p
rs34337877	chr21:15258146	NRIP1:miR-576
rs35548482	chr21:16172921	USP25:miR-335
rs58652636	chr21:17887948	BTG3:miR-142-5p
rs3833344	chr21:17887954	BTG3:miR-142-5p
rs3833344	chr21:17887954	BTG3:miR-559
rs3833344	chr21:17887954	BTG3:miR-376a*
rs2824386	chr21:17887960	BTG3:miR-376a*
rs15459	chr21:17888007	BTG3:miR-421
rs2051357	chr21:18560988	CHODL:miR-126*
rs11909235	chr21:18561066	CHODL:miR-584
rs11909235	chr21:18561066	CHODL:miR-641
rs2694	chr21:26063609	GABPA:miR-302c*
rs229077	chr21:27217210	ADAMTS5:miR-519a
rs229077	chr21:27217210	ADAMTS5:miR-519b
rs229077	chr21:27217210	ADAMTS5:miR-519c
rs58326035	chr21:31413312	TIAM1:miR-186
rs17551019	chr21:31413650	TIAM1:miR-376a*
rs41275634	chr21:34131882	ITSN1:miR-487b
rs35280535	chr21:34391597	SLC5A3:miR-153
rs4817620	chr21:34392080	SLC5A3:miR-383
rs2850036	chr21:34393355	SLC5A3:miR-524
rs2850036	chr21:34393355	SLC5A3:miR-525*
rs2850036	chr21:34393355	SLC5A3:miR-124a
rs1060272	chr21:34810737	DSCR1:miR-518b
rs1060272	chr21:34810737	DSCR1:miR-518c
rs1060272	chr21:34810737	DSCR1:miR-518d
rs1060272	chr21:34810737	DSCR1:miR-518a
rs1060272	chr21:34810737	DSCR1:miR-518e
rs1060272	chr21:34810737	DSCR1:miR-518f
rs14676	chr21:34810825	DSCR1:miR-580
rs55761346	chr21:35084618	RUNX1:miR-592
rs61311412	chr21:35085371	RUNX1:miR-23a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs61311412	chr21:35085371	RUNX1:miR-23b
rs61311412	chr21:35085371	RUNX1:miR-323
rs35658312	chr21:36670327	MORC3:miR-380-3p
rs55720916	chr21:37806447	DYRK1A:miR-654
rs1803439	chr21:37807312	DYRK1A:miR-218
rs59406559	chr21:37808515	DYRK1A:miR-373*
rs1801348	chr21:38676026	ERG:miR-625
rs11540409	chr21:39117877	ETS2:miR-559
rs11701857	chr21:39591846	BRWD1:miR-610
rs3988444	chr21:39636400	HMGN1:miR-382
rs35306807	chr21:39636424	HMGN1:miR-520d*
rs60176667	chr21:39636427	HMGN1:miR-520d*
rs3988446	chr21:39636722	HMGN1:miR-545
rs3988446	chr21:39636722	HMGN1:miR-522
rs16999177	chr21:40306428	DSCAM:miR-339
rs36206482	chr21:43323440	PKNOX1:miR-521
rs9325621	chr21:43323440	PKNOX1:miR-521
rs62219526	chr21:43323504	PKNOX1:miR-186
rs1065257	chr21:43658914	SNF1LK:miR-143
rs1065257	chr21:43658914	SNF1LK:miR-577
rs1065257	chr21:43658914	SNF1LK:miR-142-5p
rs5746428	chr22:16412975	CECR2:miR-337
rs55775531	chr22:17499329	DGCR14:miR-611
rs56279111	chr22:17499502	DGCR14:miR-489
rs35335239	chr22:19634369	CRKL:miR-145
rs6005034	chr22:19637397	CRKL:miR-598
rs5753562	chr22:20133190	HIC2:miR-372
rs5753562	chr22:20133190	HIC2:miR-93
rs9609460	chr22:20134583	HIC2:miR-644
rs13058	chr22:20447502	MAPK1:miR-186
rs41282607	chr22:20448229	MAPK1:miR-606
rs41282607	chr22:20448229	MAPK1:miR-217
rs1803546	chr22:20448410	MAPK1:miR-515-5p
rs1803546	chr22:20448410	MAPK1:miR-519e*
rs1048752	chr22:20448433	MAPK1:miR-555
rs56132841	chr22:21796386	GNAZ:miR-589
rs56032301	chr22:21796388	GNAZ:miR-589
rs710189	chr22:21988705	BCR:miR-600
rs3876093	chr22:21988735	BCR:miR-186
rs35849189	chr22:24077584	LRP5L:miR-138
rs11379447	chr22:26476768	MN1:miR-490
rs14963	chr22:27520643	XBP1:miR-496
rs14963	chr22:27520643	XBP1:miR-153
rs1064181	chr22:27521258	XBP1:miR-491
rs34605658	chr22:27781172	ZNRF3:miR-586
rs61337029	chr22:27781659	ZNRF3:miR-143
rs3178915	chr22:27783027	ZNRF3:miR-515-3p
rs60214892	chr22:27783409	ZNRF3:miR-7
rs60214892	chr22:27783409	ZNRF3:miR-368
rs61737736	chr22:28037748	GAS2L1:miR-326
rs9613860	chr22:28037955	GAS2L1:miR-147
rs41282479	chr22:29302680	PES1:miR-125a

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs41282479	chr22:29302680	PES1:miR-125b
rs62238097	chr22:29652614	MORC2:miR-559
rs28446182	chr22:29932961	RNF185:miR-224
rs35349745	chr22:30008402	MGC17330:miR-613
rs56801236	chr22:30052874	ZNF278:miR-646
rs2240426	chr22:30052953	ZNF278:miR-132
rs2240426	chr22:30052953	ZNF278:miR-212
rs15086	chr22:30344565	PISD:miR-429
rs34122600	chr22:30683493	YWHAH:miR-563
rs1804710	chr22:31585477	TIMP3:miR-372
rs1804710	chr22:31585477	TIMP3:miR-93
rs11704223	chr22:31586163	TIMP3:miR-30a-3p
rs11704223	chr22:31586163	TIMP3:miR-30e-3p
rs1143552	chr22:31586174	TIMP3:miR-181b
rs1143552	chr22:31586174	TIMP3:miR-181d
rs1802676	chr22:31586327	TIMP3:miR-620
rs1802680	chr22:31588951	TIMP3:miR-144
rs3202694	chr22:31588997	TIMP3:miR-651
rs1801820	chr22:31999178	LARGE:miR-30a-5p
rs1801820	chr22:31999178	LARGE:miR-30b
rs1801820	chr22:31999178	LARGE:miR-30c
rs1801820	chr22:31999178	LARGE:miR-30d
rs1801820	chr22:31999178	LARGE:miR-30e-5p
rs60041812	chr22:34021596	HMG2L1:miR-568
rs5755721	chr22:34120168	HMOX1:miR-377
rs14870	chr22:34464773	RBM9:miR-527
rs41283203	chr22:34465560	RBM9:miR-429
rs28562663	chr22:34469783	RBM9:miR-593
rs28562663	chr22:34469783	RBM9:miR-624
rs8226	chr22:35007360	MYH9:miR-124a
rs8226	chr22:35007360	MYH9:miR-524
rs8226	chr22:35007360	MYH9:miR-525*
rs5995275	chr22:35007431	MYH9:miR-769-3p
rs139999	chr22:35193321	TXN2:miR-520d*
rs8141371	chr22:36698516	SOX10:miR-596
rs1063237	chr22:36941975	MAFF:miR-142-5p
rs9607526	chr22:37016780	CSNK1E:miR-142-5p
rs1054208	chr22:37016876	CSNK1E:miR-495
rs11548925	chr22:37016880	CSNK1E:miR-495
rs1054207	chr22:37016886	CSNK1E:miR-559
rs1054207	chr22:37016886	CSNK1E:miR-577
rs1054207	chr22:37016886	CSNK1E:miR-142-5p
rs1054207	chr22:37016886	CSNK1E:miR-559
rs16998989	chr22:37209441	DDX17:miR-361
rs12297	chr22:37209508	DDX17:miR-154*
rs12297	chr22:37209508	DDX17:miR-487a
rs11570434	chr22:37245932	DMC1:miR-628
rs1053222	chr22:37590405	CBX6:miR-765
rs8136600	chr22:37856989	CBX7:miR-518a
rs8136600	chr22:37856989	CBX7:miR-518e
rs8136600	chr22:37856989	CBX7:miR-518f
rs1804440	chr22:37949706	PDGFB:miR-559

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1804440	chr22:37949706	PDGFB:miR-577
rs56031201	chr22:37949760	PDGFB:miR-650
rs56111992	chr22:38415556	CACNA11:miR-220
rs11912126	chr22:39049973	TNRC6B:miR-654
rs41281265	chr22:39050650	TNRC6B:miR-432
rs41281265	chr22:39050650	TNRC6B:miR-518a
rs41281265	chr22:39050650	TNRC6B:miR-518e
rs41281265	chr22:39050650	TNRC6B:miR-518f
rs4821943	chr22:39052691	TNRC6B:miR-378
rs10534254	chr22:39057596	TNRC6B:miR-548c
rs28562917	chr22:39061245	TNRC6B:miR-596
rs28562917	chr22:39061245	TNRC6B:miR-622
rs9611309	chr22:39061637	TNRC6B:miR-577
rs9611309	chr22:39061637	TNRC6B:miR-559
rs9611309	chr22:39061637	TNRC6B:miR-142-5p
rs9611309	chr22:39061637	TNRC6B:miR-577
rs9611309	chr22:39061637	TNRC6B:miR-559
rs12373980	chr22:39552407	ST13:miR-202
rs11546402	chr22:40124994	TEF:miR-577
rs11546402	chr22:40124994	TEF:miR-559
rs4085936	chr22:40160126	TOB2:miR-519d
rs4085936	chr22:40160126	TOB2:miR-519e
rs61757465	chr22:40252312	POLR3H:miR-181a*
rs3221808	chr22:40720830	SEPT3:miR-31
rs17002787	chr22:40720963	SEPT3:miR-610
rs35409916	chr22:40723996	SEPT3:miR-331
rs5845526	chr22:40886601	TCF20:miR-548d
rs2413683	chr22:40887028	TCF20:miR-642
rs4988442	chr22:41855444	BIK:miR-146a
rs4988442	chr22:41855444	BIK:miR-146b
rs10523718	chr22:41929310	SCUBE1:miR-202
rs34799074	chr22:41929311	SCUBE1:miR-202
rs16999841	chr22:47533271	FAM19A5:miR-422a
rs17001403	chr22:48667191	ZBED4:miR-493-5p
rs1061331	chr22:48667982	ZBED4:miR-570
rs1061331	chr22:48667982	ZBED4:miR-589
rs41280551	chr22:48668029	ZBED4:miR-494
rs41280551	chr22:48668029	ZBED4:miR-641
rs1053764	chr22:49232361	SBF1:miR-30a-5p
rs1053764	chr22:49232361	SBF1:miR-30b
rs1053764	chr22:49232361	SBF1:miR-30c
rs1053764	chr22:49232361	SBF1:miR-30d
rs1053764	chr22:49232361	SBF1:miR-30e-5p
rs1053764	chr22:49232361	SBF1:miR-302a*
rs35630566	chr22:49517983	SHANK3:miR-296
rs5916269	chrX:5820299	NLGN4X:miR-487b
rs3175222	chrX:8457049	KAL1:miR-517*
rs3175221	chrX:8457059	KAL1:miR-542-3p
rs1062629	chrX:12751216	PRPS2:miR-516-5p
rs13793	chrX:13699270	GPM6B:miR-559
rs5926307	chrX:23322606	PTCHD1:miR-30a-3p
rs5926307	chrX:23322606	PTCHD1:miR-30e-3p



**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1042604	chrX:24142016	ZFX:miR-122a
rs5927686	chrX:31049752	DMD:miR-139
rs5927686	chrX:31049752	DMD:miR-144
rs5927686	chrX:31049752	DMD:miR-374
rs1127632	chrX:34557296	TMEM47:miR-635
rs2295339	chrX:40980547	USP9X:miR-372
rs2295339	chrX:40980547	USP9X:miR-93
rs2295339	chrX:40980547	USP9X:miR-106a
rs2295339	chrX:40980547	USP9X:miR-106b
rs2295339	chrX:40980547	USP9X:miR-17-5p
rs2295339	chrX:40980547	USP9X:miR-20a
rs2295339	chrX:40980547	USP9X:miR-20b
rs1056358	chrX:41092629	DDX3X:miR-553
rs708452	chrX:41094304	DDX3X:miR-139
rs708452	chrX:41094304	DDX3X:miR-17-3p
rs3209046	chrX:41094370	DDX3X:miR-383
rs10617	chrX:46973590	PCTK1:miR-495
rs3174380	chrX:47380404	ELK1:miR-296
rs3027484	chrX:48703695	KCND1:miR-30a-3p
rs3027484	chrX:48703695	KCND1:miR-30e-3p
rs4565600	chrX:54114643	FAM120C:miR-320
rs4565600	chrX:54114643	FAM120C:miR-9*
rs3810701	chrX:63321797	FAM123B:miR-34b
rs3810701	chrX:63321797	FAM123B:miR-34a
rs3810701	chrX:63321797	FAM123B:miR-34c
rs3810701	chrX:63321797	FAM123B:miR-449
rs3810701	chrX:63321797	FAM123B:miR-449b
rs3810701	chrX:63321797	FAM123B:miR-148b
rs3810701	chrX:63321797	FAM123B:miR-152
rs1056069	chrX:67978109	EFNB1:miR-594
rs11602	chrX:69176003	EDA:miR-451
rs3183972	chrX:70376322	ZMYM3:miR-589
rs1803004	chrX:70376339	ZMYM3:miR-553
rs1803001	chrX:70376478	ZMYM3:miR-765
rs1803001	chrX:70376478	ZMYM3:miR-185
rs3208713	chrX:70437594	NONO:miR-558
rs1047458	chrX:71438263	CITED1:miR-140
rs3735	chrX:72823589	CHIC1:miR-542-3p
rs20385	chrX:96743056	DIAPH2:miR-154
rs3211226	chrX:99434376	PCDH19:miR-489
rs761844	chrX:100236846	TMEM35:miR-493-5p
rs1045299	chrX:102451048	BEX2:miR-485-5p
rs1058986	chrX:102817160	MORF4L2:miR-647
rs1064553	chrX:102817323	MORF4L2:miR-29a
rs1064553	chrX:102817323	MORF4L2:miR-29b
rs1064553	chrX:102817323	MORF4L2:miR-29c
rs1064553	chrX:102817323	MORF4L2:miR-767-5p
rs839377	chrX:108753958	KCNE1L:miR-625
rs3027755	chrX:110905697	TRPC5:miR-640
rs1801412	chrX:114048960	HTR2C:miR-141
rs1801412	chrX:114048960	HTR2C:miR-200a
rs1801412	chrX:114048960	HTR2C:miR-429

**Supplemental Table 4: SNPs in miRNA target sites based on PITA prediction**

<b>SNP</b>	<b>SNP Position (hg18)</b>	<b>PITA Prediction</b>
rs1804954	chrX:117809964	IL13RA1:miR-626
rs1804954	chrX:117809964	IL13RA1:miR-558
rs1803722	chrX:118602287	UBE2A:miR-577
rs14982	chrX:118602293	UBE2A:miR-577
rs5911725	chrX:122875134	BIRC4:miR-569
rs3810727	chrX:130050818	FLJ30058:miR-594
rs9670	chrX:135575439	ARHGEF6:miR-559
rs9670	chrX:135575439	ARHGEF6:miR-577
rs10147	chrX:135783336	RBMX:miR-521
rs2886083	chrX:135783343	RBMX:miR-522
rs850	chrX:135783662	RBMX:miR-579
rs2230685	chrX:135783817	RBMX:miR-335
rs1062712	chrX:137541512	FGF13:miR-493-5p
rs3833400	chrX:142795674	UBE2NL:miR-559
rs25722	chrX:146839569	FMR1:miR-182
rs29292	chrX:146840279	FMR1:miR-132
rs29292	chrX:146840279	FMR1:miR-212
rs4636363	chrX:147880614	AFF2:let-7e
rs1049521	chrX:149592032	MTM1:miR-379
rs3180717	chrX:149684056	MTMR1:miR-30a-5p
rs3180717	chrX:149684056	MTMR1:miR-30b
rs3180717	chrX:149684056	MTMR1:miR-30c
rs3180717	chrX:149684056	MTMR1:miR-30d
rs3180717	chrX:149684056	MTMR1:miR-30e-5p
rs8230	chrX:151746562	CETN2:miR-589
rs2734643	chrX:152944381	MECP2:miR-375
rs1063371	chrX:153324628	GDI1:miR-651
rs3105275	chrX:154141626	RAB39B:miR-433
rs11538310	chrY:2794961	RPS4Y1:miR-527
rs2020857	chrY:13540146	DDX3Y:miR-28
rs13447375	chrY:13540272	DDX3Y:miR-548a
rs2072126	chrY:13541140	DDX3Y:miR-424

Supplemental Table 5: Consensus SNPs in miRNA target sites

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs34335657	chr1:7750490	CAMTA1:miR-450	CAMTA1:miR-129
rs11807940	chr1:12190929	TNFRSF1B:let-7/98	TNFRSF1B:let-7e
rs1045038	chr1:20943854	HP1BP3:miR-433-3p	HP1BP3:miR-433
rs897468	chr1:22022274	HSPG2:miR-15/16/195/424/497	HSPG2:miR-424
rs897468	chr1:22022274	HSPG2:miR-503	HSPG2:miR-424
rs41266043	chr1:22802104	EPHA8:miR-129-5p	EPHA8:miR-129
rs41266043	chr1:22802104	EPHA8:miR-129-5p	EPHA8:miR-33
rs41266043	chr1:22802104	EPHA8:miR-33	EPHA8:miR-129
rs41266043	chr1:22802104	EPHA8:miR-33	EPHA8:miR-33
rs41266043	chr1:22802104	EPHA8:miR-450	EPHA8:miR-129
rs41266043	chr1:22802104	EPHA8:miR-450	EPHA8:miR-33
rs11583293	chr1:25767240	LDLRAP1:miR-124.2/506	LDLRAP1:miR-506
rs11583293	chr1:25767240	LDLRAP1:miR-124.2/506	LDLRAP1:miR-593
rs61005297	chr1:26628494	LIN28:miR-30-5p:2	LIN28:miR-302a*
rs61005297	chr1:26628494	LIN28:miR-30-5p:2	LIN28:miR-30a-5p
rs61005297	chr1:26628494	LIN28:miR-30-5p:2	LIN28:miR-30b
rs61005297	chr1:26628494	LIN28:miR-30-5p:2	LIN28:miR-30c
rs61005297	chr1:26628494	LIN28:miR-30-5p:2	LIN28:miR-30d
rs61005297	chr1:26628494	LIN28:miR-30-5p:2	LIN28:miR-30e-5p
rs34672418	chr1:27594606	GPR3:miR-135	GPR3:miR-135a
rs34672418	chr1:27594606	GPR3:miR-135	GPR3:miR-135b
rs1043163	chr1:31965554	BAI2:miR-122	BAI2:miR-122a
rs12405056	chr1:32281989	KHDRBS1:miR-34b	KHDRBS1:miR-379
rs35572238	chr1:35103759	DLGAP3:miR-133	DLGAP3:miR-659
rs11538676	chr1:40478910	RLF:miR-495:1	RLF:miR-495
rs35817790	chr1:42984662	LEPRE1:miR-9	LEPRE1:miR-9
rs55946822	chr1:43164540	SLC2A1:miR-410	SLC2A1:miR-568
rs1859726	chr1:44168802	ST3GAL3:miR-369-3p	ST3GAL3:miR-369-3p
rs1859726	chr1:44168802	ST3GAL3:miR-369-3p	ST3GAL3:miR-655
rs41292517	chr1:51593176	EPS15:miR-130/301	EPS15:miR-527
rs41292517	chr1:51593176	EPS15:miR-148/152	EPS15:miR-527
rs41292517	chr1:51593176	EPS15:miR-19	EPS15:miR-527
rs4628	chr1:56734344	PPAP2B:miR-224	PPAP2B:miR-610
rs1052426	chr1:62401675	INADL:miR-18	INADL:miR-18a
rs1052426	chr1:62401675	INADL:miR-18	INADL:miR-18b

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs62620019	chr1:62689369	USP1:miR-410	USP1:miR-568
rs1050619	chr1:91921599	TGFBR3:miR-23	TGFBR3:miR-23a
rs1050619	chr1:91921599	TGFBR3:miR-23	TGFBR3:miR-23b
rs1050619	chr1:91921599	TGFBR3:miR-323	TGFBR3:miR-23a
rs1050619	chr1:91921599	TGFBR3:miR-323	TGFBR3:miR-23b
rs3789699	chr1:95135589	CNN3:miR-153	CNN3:miR-519a
rs3789699	chr1:95135589	CNN3:miR-153	CNN3:miR-519b
rs3789699	chr1:95135589	CNN3:miR-153	CNN3:miR-519c
rs41285716	chr1:99545479	LPPR4:miR-96:1	LPPR4:miR-571
rs34327534	chr1:99546976	LPPR4:miR-491	LPPR4:miR-491
rs5876	chr1:100320582	HIAT1:miR-31	HIAT1:miR-539
rs1056840	chr1:101479198	EDG1:miR-17-5p/20/93/106/519.d	EDG1:miR-106a
rs1056840	chr1:101479198	EDG1:miR-17-5p/20/93/106/519.d	EDG1:miR-106b
rs1056840	chr1:101479198	EDG1:miR-17-5p/20/93/106/519.d	EDG1:miR-17-5p
rs1056840	chr1:101479198	EDG1:miR-17-5p/20/93/106/519.d	EDG1:miR-20a
rs1056840	chr1:101479198	EDG1:miR-17-5p/20/93/106/519.d	EDG1:miR-20b
rs1056840	chr1:101479198	EDG1:miR-17-5p/20/93/106/519.d	EDG1:miR-519d
rs17019191	chr1:107825738	NTNG1:miR-182	NTNG1:miR-182
rs17019191	chr1:107825738	NTNG1:miR-182	NTNG1:miR-369-3p
rs56714545	chr1:112864937	WNT2B:miR-130/301	WNT2B:miR-130a
rs56714545	chr1:112864937	WNT2B:miR-130/301	WNT2B:miR-130b
rs56714545	chr1:112864937	WNT2B:miR-130/301	WNT2B:miR-301
rs56714545	chr1:112864937	WNT2B:miR-130/301	WNT2B:miR-454-3p
rs1059479	chr1:113045415	RHOC:miR-138	RHOC:miR-106a
rs1059479	chr1:113045415	RHOC:miR-138	RHOC:miR-106b
rs1059479	chr1:113045415	RHOC:miR-138	RHOC:miR-138
rs1059479	chr1:113045415	RHOC:miR-138	RHOC:miR-17-5p
rs1059479	chr1:113045415	RHOC:miR-138	RHOC:miR-20a
rs1059479	chr1:113045415	RHOC:miR-138	RHOC:miR-20b
rs1059479	chr1:113045415	RHOC:miR-138	RHOC:miR-372
rs1059479	chr1:113045415	RHOC:miR-138	RHOC:miR-93
rs1059479	chr1:113045415	RHOC:miR-142-5p	RHOC:miR-106a
rs1059479	chr1:113045415	RHOC:miR-142-5p	RHOC:miR-106b
rs1059479	chr1:113045415	RHOC:miR-142-5p	RHOC:miR-138
rs1059479	chr1:113045415	RHOC:miR-142-5p	RHOC:miR-17-5p
rs1059479	chr1:113045415	RHOC:miR-142-5p	RHOC:miR-20a
rs1059479	chr1:113045415	RHOC:miR-142-5p	RHOC:miR-20b

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs1059479	chr1:113045415	RHOC:miR-142-5p	RHOC:miR-372
rs1059479	chr1:113045415	RHOC:miR-142-5p	RHOC:miR-93
rs1059479	chr1:113045415	RHOC:miR-17-5p/20/93/106/519.d	RHOC:miR-106a
rs1059479	chr1:113045415	RHOC:miR-17-5p/20/93/106/519.d	RHOC:miR-106b
rs1059479	chr1:113045415	RHOC:miR-17-5p/20/93/106/519.d	RHOC:miR-138
rs1059479	chr1:113045415	RHOC:miR-17-5p/20/93/106/519.d	RHOC:miR-17-5p
rs1059479	chr1:113045415	RHOC:miR-17-5p/20/93/106/519.d	RHOC:miR-20a
rs1059479	chr1:113045415	RHOC:miR-17-5p/20/93/106/519.d	RHOC:miR-20b
rs1059479	chr1:113045415	RHOC:miR-17-5p/20/93/106/519.d	RHOC:miR-372
rs1059479	chr1:113045415	RHOC:miR-17-5p/20/93/106/519.d	RHOC:miR-93
rs1059479	chr1:113045415	RHOC:miR-93/291-3p/294/295/302/372/373/520	RHOC:miR-106a
rs1059479	chr1:113045415	RHOC:miR-93/291-3p/294/295/302/372/373/520	RHOC:miR-106b
rs1059479	chr1:113045415	RHOC:miR-93/291-3p/294/295/302/372/373/520	RHOC:miR-138
rs1059479	chr1:113045415	RHOC:miR-93/291-3p/294/295/302/372/373/520	RHOC:miR-17-5p
rs1059479	chr1:113045415	RHOC:miR-93/291-3p/294/295/302/372/373/520	RHOC:miR-20a
rs1059479	chr1:113045415	RHOC:miR-93/291-3p/294/295/302/372/373/520	RHOC:miR-20b
rs1059479	chr1:113045415	RHOC:miR-93/291-3p/294/295/302/372/373/520	RHOC:miR-372
rs1059479	chr1:113045415	RHOC:miR-93/291-3p/294/295/302/372/373/520	RHOC:miR-93
rs34764866	chr1:114319284	HIPK1:miR-124.1:1	HIPK1:miR-124a
rs34764866	chr1:114319284	HIPK1:miR-124.1:1	HIPK1:miR-524
rs34764866	chr1:114319284	HIPK1:miR-124.1:1	HIPK1:miR-525*
rs34764866	chr1:114319284	HIPK1:miR-124.2/506:1	HIPK1:miR-124a
rs34764866	chr1:114319284	HIPK1:miR-124.2/506:1	HIPK1:miR-524
rs34764866	chr1:114319284	HIPK1:miR-124.2/506:1	HIPK1:miR-525*
rs1802719	chr1:149306711	MLLT11:miR-29	MLLT11:miR-29a
rs1802719	chr1:149306711	MLLT11:miR-29	MLLT11:miR-29b
rs1802719	chr1:149306711	MLLT11:miR-29	MLLT11:miR-29c
rs12904	chr1:153373321	EFNA1:miR-200bc/429	EFNA1:miR-193b
rs11556953	chr1:158154993	TAGLN2:miR-133:1	TAGLN2:miR-659
rs36076633	chr1:158155137	TAGLN2:miR-1/206	TAGLN2:miR-613
rs2854245	chr1:158379963	ATP1A2:miR-26	ATP1A2:miR-519a
rs2854245	chr1:158379963	ATP1A2:miR-26	ATP1A2:miR-519b
rs2854245	chr1:158379963	ATP1A2:miR-26	ATP1A2:miR-519c
rs5778164	chr1:158661910	VANGL2:miR-26	VANGL2:miR-26a
rs5778164	chr1:158661910	VANGL2:miR-26	VANGL2:miR-26b
rs12091844	chr1:167699897	SLC19A2:miR-101	SLC19A2:miR-144
rs1053045	chr1:174180638	RFWD2:miR-186	RFWD2:miR-186

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs41268464	chr1:179326516	IER5:miR-200bc/429	IER5:miR-429
rs41268464	chr1:179326516	IER5:miR-200bc/429	IER5:miR-568
rs41272542	chr1:181788123	SMG7:miR-181	SMG7:miR-221
rs56736495	chr1:184425750	HMCN1:miR-29	HMCN1:miR-29a
rs56736495	chr1:184425750	HMCN1:miR-29	HMCN1:miR-29b
rs56736495	chr1:184425750	HMCN1:miR-29	HMCN1:miR-29c
rs34333849	chr1:191047947	RGS2:miR-182	RGS2:miR-96
rs34333849	chr1:191047947	RGS2:miR-96	RGS2:miR-96
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-106a
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-106b
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-17-5p
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-20a
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-20b
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-302a
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-302b
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-302c
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-302d
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-373
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-520a
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-520b
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-520c
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-520d
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-520e
rs11313660	chr1:195393671	ZBTB41:miR-17-5p/20/93/106/519.d	ZBTB41:miR-526b*
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-106a
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-106b
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-17-5p
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-20a
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-20b
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-302a
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-302b
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-302c
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-302d
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-373
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-520a
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-520b
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-520c

**Supplemental Table 5: Consensus SNPs in miRNA target sites**

<b>SNP ID</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>	<b>PITA Prediction</b>
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-520d
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-520e
rs11313660	chr1:195393671	ZBTB41:miR-93/291-3p/294/295/302/372/373/520:1	ZBTB41:miR-526b*
rs11542634	chr1:200118729	IPO9:miR-503	IPO9:miR-503
rs1804734	chr1:201545229	BTG2:miR-21	BTG2:miR-600
rs35434297	chr1:201578020	FMOD:miR-338	FMOD:miR-545
rs36012144	chr1:202363486	SOX13:miR-203.1	SOX13:miR-573
rs11588647	chr1:213475956	KCNK2:miR-200bc/429	KCNK2:miR-105
rs11588647	chr1:213475956	KCNK2:miR-200bc/429	KCNK2:miR-200b
rs11588647	chr1:213475956	KCNK2:miR-200bc/429	KCNK2:miR-200c
rs11588647	chr1:213475956	KCNK2:miR-200bc/429	KCNK2:miR-429
rs1141262	chr1:214746054	ESRRG:miR-7	ESRRG:miR-7
rs34140107	chr1:219941461	DUSP10:miR-129-5p	DUSP10:miR-129
rs34140107	chr1:219941461	DUSP10:miR-129-5p	DUSP10:miR-450
rs34140107	chr1:219941461	DUSP10:miR-450	DUSP10:miR-129
rs34140107	chr1:219941461	DUSP10:miR-450	DUSP10:miR-450
rs13404748	chr2:16597634	FAM49A:miR-30-5p	FAM49A:miR-30a-5p
rs13404748	chr2:16597634	FAM49A:miR-30-5p	FAM49A:miR-30b
rs13404748	chr2:16597634	FAM49A:miR-30-5p	FAM49A:miR-30c
rs13404748	chr2:16597634	FAM49A:miR-30-5p	FAM49A:miR-30d
rs13404748	chr2:16597634	FAM49A:miR-30-5p	FAM49A:miR-30e-5p
rs17737058	chr2:24845073	NCOA1:miR-488	NCOA1:miR-488
rs35163679	chr2:25309938	DNMT3A:miR-200bc/429	DNMT3A:miR-429
rs62128674	chr2:26465969	SELI:miR-182	SELI:miR-182
rs3087895	chr2:30235457	YPEL5:miR-30-5p	YPEL5:miR-30a-5p
rs3087895	chr2:30235457	YPEL5:miR-30-5p	YPEL5:miR-30b
rs3087895	chr2:30235457	YPEL5:miR-30-5p	YPEL5:miR-30c
rs3087895	chr2:30235457	YPEL5:miR-30-5p	YPEL5:miR-30d
rs3087895	chr2:30235457	YPEL5:miR-30-5p	YPEL5:miR-30e-5p
rs11550290	chr2:36630373	CRIM1:miR-18	CRIM1:miR-421
rs11550290	chr2:36630373	CRIM1:miR-18	CRIM1:miR-545
rs34098574	chr2:46664267	RHOQ:miR-9	RHOQ:miR-9
rs1803209	chr2:47241073	CALM2:miR-505	CALM2:miR-302b*
rs7573286	chr2:55053268	RTN4:miR-182	RTN4:miR-182
rs2287086	chr2:60539999	BCL11A:miR-363:1	BCL11A:miR-32
rs2287086	chr2:60539999	BCL11A:miR-363:1	BCL11A:miR-323
rs2287086	chr2:60539999	BCL11A:miR-363:1	BCL11A:miR-557

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs1050608	chr2:61558609	XPO1:miR-142-3p	XPO1:miR-142-3p
rs12613621	chr2:63137026	OTX1:miR-103/107	OTX1:miR-503
rs12613621	chr2:63137026	OTX1:miR-15/16/195/424/497:2	OTX1:miR-503
rs35261794	chr2:69554435	AAK1:miR-205:1	AAK1:miR-205
rs61296228	chr2:70528078	TGFA:miR-23	TGFA:miR-23a
rs61296228	chr2:70528078	TGFA:miR-23	TGFA:miR-23b
rs61296228	chr2:70528078	TGFA:miR-23	TGFA:miR-655
rs61296228	chr2:70528078	TGFA:miR-323	TGFA:miR-23a
rs61296228	chr2:70528078	TGFA:miR-323	TGFA:miR-23b
rs61296228	chr2:70528078	TGFA:miR-323	TGFA:miR-655
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-106a
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-106b
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-17-5p
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-20a
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-20b
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-302a
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-302b
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-302c
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-302d
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-373
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-520a
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-520b
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-520c
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-520d
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-520e
rs1046157	chr2:73154050	RAB11FIP5:miR-142-5p	RAB11FIP5:miR-526b*
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-106a
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-106b
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-17-5p
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-20a
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-20b
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-302a
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-302b
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-302c
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-302d
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-373
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-519d



Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-519e
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-520a
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-520b
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-520c
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-520d
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-520e
rs3739008	chr2:100979000	NPAS2:miR-17-5p/20/93/106/519.d:1	NPAS2:miR-526b*
rs11553853	chr2:105877068	NCK2:miR-1/206	NCK2:miR-122a
rs11553853	chr2:105877068	NCK2:miR-1/206	NCK2:miR-340
rs11553853	chr2:105877068	NCK2:miR-455	NCK2:miR-122a
rs11553853	chr2:105877068	NCK2:miR-455	NCK2:miR-340
rs1801602	chr2:106076797	UXS1:miR-145	UXS1:miR-145
rs34871350	chr2:113137493	SLC20A1:miR-339	SLC20A1:miR-210
rs1053679	chr2:139043384	LOC339745:miR-124.2/506:1	LOC339745:miR-124a
rs62169203	chr2:144862630	ZEB2:miR-25/32/92/363/367	ZFHX1B:miR-32
rs62169203	chr2:144862630	ZEB2:miR-25/32/92/363/367	ZFHX1B:miR-363
rs11291336	chr2:152403264	CACNB4:miR-129-5p	CACNB4:miR-96
rs11291336	chr2:152403264	CACNB4:miR-182	CACNB4:miR-96
rs11291336	chr2:152403264	CACNB4:miR-96	CACNB4:miR-96
rs5024424	chr2:165956317	SCN2A:miR-101	SCN2A2:miR-101
rs35272219	chr2:173625469	RAPGEF4:miR-203.1	RAPGEF4:miR-203
rs35272219	chr2:173625469	RAPGEF4:miR-203.1	RAPGEF4:miR-613
rs2304340	chr2:178968628	OSBPL6:miR-30-3p	OSBPL6:miR-380-5p
rs2304340	chr2:178968628	OSBPL6:miR-30-3p	OSBPL6:miR-640
rs12392	chr2:198059774	HSPD1:miR-1/206	HSPD1:miR-1
rs12392	chr2:198059774	HSPD1:miR-1/206	HSPD1:miR-206
rs12392	chr2:198059774	HSPD1:miR-1/206	HSPD1:miR-425-3p
rs55884229	chr2:201396295	BZW1:miR-24	BZW1:miR-659
rs17387557	chr2:206369947	NRP2:miR-141/200a	NRP2:miR-141
rs17387557	chr2:206369947	NRP2:miR-141/200a	NRP2:miR-200a
rs17387557	chr2:206369947	NRP2:miR-141/200a	NRP2:miR-429
rs35564745	chr2:208336085	FZD5:miR-24	FZD5:miR-24
rs35564745	chr2:208336085	FZD5:miR-24	FZD5:miR-579
rs35564745	chr2:208336085	FZD5:miR-24	FZD5:miR-659
rs55977831	chr2:217249624	IGFBP5:miR-143	IGFBP5:miR-143
rs3204750	chr2:218919561	PNKD:let-7/98	PNKD:let-7a
rs3204750	chr2:218919561	PNKD:let-7/98	PNKD:let-7b

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs3204750	chr2:218919561	PNKD:let-7/98	PNKD:let-7c
rs3204750	chr2:218919561	PNKD:let-7/98	PNKD:let-7d
rs3204750	chr2:218919561	PNKD:let-7/98	PNKD:let-7f
rs3204750	chr2:218919561	PNKD:let-7/98	PNKD:let-7g
rs3204750	chr2:218919561	PNKD:let-7/98	PNKD:let-7i
rs3204750	chr2:218919561	PNKD:let-7/98	PNKD:miR-98
rs13385757	chr2:221993236	EPHA4:miR-138	EPHA4:miR-138
rs60365791	chr2:232381635	COPS7B:miR-486	COPS7B:miR-568
rs2230360	chr2:241817653	HDLBP:miR-214	HDLBP:miR-214
rs34717483	chr3:3863718	LRRN1:miR-369-3p	LRRN1:miR-802
rs34717483	chr3:3863718	LRRN1:miR-374	LRRN1:miR-802
rs35018130	chr3:4863676	ITPR1:miR-204/211	ITPR1:miR-204
rs35018130	chr3:4863676	ITPR1:miR-204/211	ITPR1:miR-211
rs3840229	chr3:7757488	GRM7:miR-19	GRM7:miR-527
rs56173829	chr3:7757494	GRM7:miR-130/301	GRM7:miR-18a
rs56173829	chr3:7757494	GRM7:miR-130/301	GRM7:miR-18b
rs56173829	chr3:7757494	GRM7:miR-130/301	GRM7:miR-520g
rs56173829	chr3:7757494	GRM7:miR-130/301	GRM7:miR-520h
rs56173829	chr3:7757494	GRM7:miR-130/301	GRM7:miR-527
rs56173829	chr3:7757494	GRM7:miR-17-5p/20/93/106/519.d	GRM7:miR-18a
rs56173829	chr3:7757494	GRM7:miR-17-5p/20/93/106/519.d	GRM7:miR-18b
rs56173829	chr3:7757494	GRM7:miR-17-5p/20/93/106/519.d	GRM7:miR-520g
rs56173829	chr3:7757494	GRM7:miR-17-5p/20/93/106/519.d	GRM7:miR-520h
rs56173829	chr3:7757494	GRM7:miR-17-5p/20/93/106/519.d	GRM7:miR-527
rs56173829	chr3:7757494	GRM7:miR-19	GRM7:miR-18a
rs56173829	chr3:7757494	GRM7:miR-19	GRM7:miR-18b
rs56173829	chr3:7757494	GRM7:miR-19	GRM7:miR-520g
rs56173829	chr3:7757494	GRM7:miR-19	GRM7:miR-520h
rs56173829	chr3:7757494	GRM7:miR-19	GRM7:miR-527
rs13085756	chr3:9494746	SETD5:miR-30-5p:2	SETD5:miR-136
rs13085756	chr3:9494746	SETD5:miR-30-5p:2	SETD5:miR-30a-5p
rs13085756	chr3:9494746	SETD5:miR-30-5p:2	SETD5:miR-30b
rs13085756	chr3:9494746	SETD5:miR-30-5p:2	SETD5:miR-30c
rs13085756	chr3:9494746	SETD5:miR-30-5p:2	SETD5:miR-30d
rs13085756	chr3:9494746	SETD5:miR-30-5p:2	SETD5:miR-30e-5p
rs13085758	chr3:9494749	SETD5:miR-30-5p:2	SETD5:miR-30a-5p
rs13085758	chr3:9494749	SETD5:miR-30-5p:2	SETD5:miR-30b

**Supplemental Table 5: Consensus SNPs in miRNA target sites**

<b>SNP ID</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>	<b>PITA Prediction</b>
rs13085758	chr3:9494749	SETD5:miR-30-5p:2	SETD5:miR-30c
rs13085758	chr3:9494749	SETD5:miR-30-5p:2	SETD5:miR-30d
rs13085758	chr3:9494749	SETD5:miR-30-5p:2	SETD5:miR-30e-5p
rs35674	chr3:10343577	ATP2B2:miR-326	ATP2B2:miR-326
rs930541	chr3:12200597	SYN2:miR-335	SYN2:miR-28
rs3202499	chr3:13654776	FBLN2:miR-128	FBLN2:miR-27a
rs3202499	chr3:13654776	FBLN2:miR-128	FBLN2:miR-27b
rs2731310	chr3:14159096	TMEM43:miR-194	TMEM43:miR-132
rs2731310	chr3:14159096	TMEM43:miR-194	TMEM43:miR-212
rs2731309	chr3:14159097	TMEM43:miR-194	TMEM43:miR-132
rs2731309	chr3:14159097	TMEM43:miR-194	TMEM43:miR-212
rs28509419	chr3:25613194	RARB:miR-15/16/195/424/497	RARB:miR-503
rs11305471	chr3:30021347	RBMS3:miR-320	RBMS3:miR-320
rs10696791	chr3:30021426	RBMS3:miR-129-5p:1	RBMS3:miR-129
rs10696791	chr3:30021426	RBMS3:miR-363	RBMS3:miR-129
rs10696791	chr3:30021426	RBMS3:miR-450	RBMS3:miR-129
rs11322142	chr3:30021431	RBMS3:miR-129-5p:1	RBMS3:miR-129
rs11322142	chr3:30021431	RBMS3:miR-363	RBMS3:miR-129
rs11322142	chr3:30021431	RBMS3:miR-450	RBMS3:miR-129
rs17026326	chr3:30708360	TGFBR2:miR-130/301	TGFBR2:miR-19a
rs17026326	chr3:30708360	TGFBR2:miR-130/301	TGFBR2:miR-19b
rs17026326	chr3:30708360	TGFBR2:miR-19	TGFBR2:miR-19a
rs17026326	chr3:30708360	TGFBR2:miR-19	TGFBR2:miR-19b
rs35934901	chr3:30708406	TGFBR2:miR-410	TGFBR2:miR-494
rs35934901	chr3:30708406	TGFBR2:miR-410	TGFBR2:miR-568
rs35934901	chr3:30708406	TGFBR2:miR-410	TGFBR2:miR-641
rs45512996	chr3:38565195	SCN5A:let-7/98	SCN5A:let-7e
rs45589543	chr3:38565380	SCN5A:miR-153	SCN5A:miR-448
rs45589543	chr3:38565380	SCN5A:miR-448	SCN5A:miR-448
rs3731562	chr3:48174881	CDC25A:let-7/98	CDC25A:let-7a
rs3731562	chr3:48174881	CDC25A:let-7/98	CDC25A:let-7b
rs3731562	chr3:48174881	CDC25A:let-7/98	CDC25A:let-7c
rs3731562	chr3:48174881	CDC25A:let-7/98	CDC25A:let-7d
rs3731562	chr3:48174881	CDC25A:let-7/98	CDC25A:let-7f
rs3731562	chr3:48174881	CDC25A:let-7/98	CDC25A:let-7g
rs3731562	chr3:48174881	CDC25A:let-7/98	CDC25A:let-7i
rs3731562	chr3:48174881	CDC25A:let-7/98	CDC25A:miR-196a

**Supplemental Table 5: Consensus SNPs in miRNA target sites**

<b>SNP ID</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>	<b>PITA Prediction</b>
rs3731562	chr3:48174881	CDC25A:let-7/98	CDC25A:miR-196b
rs3731562	chr3:48174881	CDC25A:let-7/98	CDC25A:miR-98
rs35841879	chr3:49548014	DAG1:miR-190	DAG1:miR-190
rs11706794	chr3:51396292	DOCK3:miR-486	DOCK3:miR-19a
rs11706794	chr3:51396292	DOCK3:miR-486	DOCK3:miR-19b
rs11706794	chr3:51396292	DOCK3:miR-486	DOCK3:miR-568
rs35336193	chr3:53296462	DCP1A:miR-128	DCP1A:miR-128a
rs35336193	chr3:53296462	DCP1A:miR-128	DCP1A:miR-128b
rs35336193	chr3:53296462	DCP1A:miR-128	DCP1A:miR-27a
rs35336193	chr3:53296462	DCP1A:miR-128	DCP1A:miR-27b
rs35336193	chr3:53296462	DCP1A:miR-128	DCP1A:miR-769-5p
rs358077	chr3:55083398	CACNA2D3:miR-143	CACNA2D3:miR-433
rs34585452	chr3:64057869	PRICKLE2:miR-33	PRICKLE2:miR-33
rs34585452	chr3:64057869	PRICKLE2:miR-33	PRICKLE2:miR-33b
rs36084453	chr3:70099937	MITF:miR-148/152:2	MITF:miR-148b
rs36084453	chr3:70099937	MITF:miR-148/152:2	MITF:miR-152
rs6551275	chr3:88275113	ZNF654:miR-153	ZNF654:miR-153
rs1058732	chr3:99998659	DCBLD2:miR-24	DCBLD2:miR-24
rs1058732	chr3:99998659	DCBLD2:miR-24	DCBLD2:miR-484
rs1027704	chr3:101951120	ABI3BP:miR-181	ABI3BP:miR-181b
rs1027704	chr3:101951120	ABI3BP:miR-181	ABI3BP:miR-181d
rs4061093	chr3:101951120	ABI3BP:miR-181	ABI3BP:miR-181b
rs4061093	chr3:101951120	ABI3BP:miR-181	ABI3BP:miR-181d
rs7648784	chr3:114921497	NAT13:miR-21	MAK3:miR-590
rs28399411	chr3:116922800	GAP43:miR-25/32/92/363/367	GAP43:miR-32
rs28399411	chr3:116922800	GAP43:miR-25/32/92/363/367	GAP43:miR-363
rs34709307	chr3:124814466	MYLK:miR-93/291-3p/294/295/302/372/373/520	MYLK:miR-561
rs35145256	chr3:126433474	ZNF148:miR-370	ZNF148:miR-370
rs35145256	chr3:126433474	ZNF148:miR-370	ZNF148:miR-502
rs11434122	chr3:132203059	ATP2C1:miR-153	ATP2C1:miR-153
rs11434122	chr3:132203059	ATP2C1:miR-448	ATP2C1:miR-153
rs3193182	chr3:134597640	TMEM108:miR-320	TMEM108:miR-320
rs1131974	chr3:135557624	AMOTL2:miR-382	AMOTL2:miR-382
rs1061262	chr3:147269980	PLOD2:miR-182	PLOD2:miR-96
rs1061262	chr3:147269980	PLOD2:miR-96	PLOD2:miR-96
rs35579941	chr3:151744480	SERP1:miR-122	SERP1:miR-122a
rs13087746	chr3:178224806	TBL1XR1:miR-34/449	TBL1XR1:miR-142-3p

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs13087746	chr3:178224806	TBL1XR1:miR-34/449	TBL1XR1:miR-34a
rs13087746	chr3:178224806	TBL1XR1:miR-34/449	TBL1XR1:miR-34c
rs13087746	chr3:178224806	TBL1XR1:miR-34/449	TBL1XR1:miR-449
rs13087746	chr3:178224806	TBL1XR1:miR-34/449	TBL1XR1:miR-449b
rs6769752	chr3:180788540	ACTL6A:miR-320	ACTL6A:miR-203
rs1801035	chr3:185384366	AP2M1:miR-9	AP2M1:miR-9
rs11546693	chr3:185460132	CAMK2N2:miR-485-5p:2	CAMK2N2:miR-485-5p
rs63665263	chr3:185590044	CHRD:let-7/98	CHRD:let-7a
rs63665263	chr3:185590044	CHRD:let-7/98	CHRD:let-7b
rs63665263	chr3:185590044	CHRD:let-7/98	CHRD:let-7c
rs63665263	chr3:185590044	CHRD:let-7/98	CHRD:let-7d
rs63665263	chr3:185590044	CHRD:let-7/98	CHRD:let-7f
rs63665263	chr3:185590044	CHRD:let-7/98	CHRD:let-7g
rs63665263	chr3:185590044	CHRD:let-7/98	CHRD:let-7i
rs63665263	chr3:185590044	CHRD:let-7/98	CHRD:miR-98
rs63665263	chr3:185590044	CHRD:miR-196	CHRD:let-7a
rs63665263	chr3:185590044	CHRD:miR-196	CHRD:let-7b
rs63665263	chr3:185590044	CHRD:miR-196	CHRD:let-7c
rs63665263	chr3:185590044	CHRD:miR-196	CHRD:let-7d
rs63665263	chr3:185590044	CHRD:miR-196	CHRD:let-7f
rs63665263	chr3:185590044	CHRD:miR-196	CHRD:let-7g
rs63665263	chr3:185590044	CHRD:miR-196	CHRD:let-7i
rs63665263	chr3:185590044	CHRD:miR-196	CHRD:miR-98
rs7355810	chr3:186845006	IGF2BP2:miR-485-5p	IGF2BP2:miR-485-5p
rs56220221	chr3:187349460	DGKG:miR-410	DGKG:miR-568
rs28480687	chr3:187349461	DGKG:miR-410	DGKG:miR-568
rs3206822	chr3:187990259	EIF4A2:miR-145	EIF4A2:miR-145
rs11549294	chr4:6935828	KIAA0232:miR-128	KIAA0232:miR-139
rs11549294	chr4:6935828	KIAA0232:miR-128	KIAA0232:miR-27a
rs11549294	chr4:6935828	KIAA0232:miR-128	KIAA0232:miR-27b
rs11549294	chr4:6935828	KIAA0232:miR-485-3p	KIAA0232:miR-139
rs11549294	chr4:6935828	KIAA0232:miR-485-3p	KIAA0232:miR-27a
rs11549294	chr4:6935828	KIAA0232:miR-485-3p	KIAA0232:miR-27b
rs1802032	chr4:9685225	WDR1:miR-544	WDR1:miR-544
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-106a
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-106b
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-17-5p

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Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-20a
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-20b
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-302a
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-302b
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-302c
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-302d
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-373
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-520a
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-520b
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-520c
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-520d
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-520e
rs58334461	chr4:37289130	RELL1:miR-17-5p/20/93/106/519.d	RELL1:miR-526b*
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-106a
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-106b
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-17-5p
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-20a
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-20b
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-302a
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-302b
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-302c
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-302d
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-373
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-520a
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-520b
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-520c
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-520d
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-520e
rs58334461	chr4:37289130	RELL1:miR-93/291-3p/294/295/302/372/373/520	RELL1:miR-526b*
rs62307873	chr4:39501052	SCC-112:miR-329	PDS5A:miR-521
rs7680422	chr4:54856274	PDGFRA:miR-33:1	PDGFRA:miR-33
rs7680422	chr4:54856274	PDGFRA:miR-33:1	PDGFRA:miR-33b
rs7680422	chr4:54856274	PDGFRA:miR-33:1	PDGFRA:miR-544
rs35250360	chr4:68862243	YTHDC1:miR-145	YTHDC1:miR-145
rs4403013	chr4:72653320	SLC4A4:miR-381	SLC4A4:miR-369-3p
rs4403013	chr4:72653320	SLC4A4:miR-381	SLC4A4:miR-374
rs34921070	chr4:72653321	SLC4A4:miR-381	SLC4A4:miR-369-3p

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs34921070	chr4:72653321	SLC4A4:miR-381	SLC4A4:miR-374
rs4403014	chr4:72653325	SLC4A4:miR-381	SLC4A4:miR-369-3p
rs4403014	chr4:72653325	SLC4A4:miR-381	SLC4A4:miR-374
rs41265675	chr4:72653335	SLC4A4:miR-23	SLC4A4:miR-23a
rs41265675	chr4:72653335	SLC4A4:miR-23	SLC4A4:miR-23b
rs41265675	chr4:72653335	SLC4A4:miR-323	SLC4A4:miR-23a
rs41265675	chr4:72653335	SLC4A4:miR-323	SLC4A4:miR-23b
rs34636402	chr4:88280653	AFF1:miR-369-3p:1	AFF1:miR-380-3p
rs34636402	chr4:88280653	AFF1:miR-374:1	AFF1:miR-380-3p
rs35907994	chr4:88280669	AFF1:miR-369-3p:4	AFF1:miR-380-3p
rs35907994	chr4:88280669	AFF1:miR-374:4	AFF1:miR-380-3p
rs35907994	chr4:88280669	AFF1:miR-410:2	AFF1:miR-380-3p
rs56202513	chr4:88280669	AFF1:miR-369-3p:4	AFF1:miR-380-3p
rs56202513	chr4:88280669	AFF1:miR-374:4	AFF1:miR-380-3p
rs56202513	chr4:88280669	AFF1:miR-410:2	AFF1:miR-380-3p
rs36011297	chr4:100020327	EIF4E:miR-330	EIF4E:miR-559
rs4365796	chr4:109189332	LEF1:miR-363	LEF1:miR-557
rs41300351	chr4:129410761	PGRMC2:miR-493-5p	PGRMC2:miR-493-5p
rs10970	chr4:134331061	PCDH10:miR-24	PCDH10:miR-24
rs1058267	chr4:134332052	PCDH10:miR-23	PCDH10:miR-496
rs17017380	chr4:144362051	USP38:miR-495	USP38:miR-802
rs35984115	chr4:146268771	ABCE1:miR-29	ABCE1:miR-506
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-106a
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-106b
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-17-5p
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-20a
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-20b
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-302a
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-302b
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-302c
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-302d
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-373
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-520a
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-520b
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-520c
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-520d
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-520e

**Supplemental Table 5: Consensus SNPs in miRNA target sites**

<b>SNP ID</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>	<b>PITA Prediction</b>
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-520g
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-520h
rs36227325	chr4:146276336	OTUD4:miR-17-5p/20/93/106/519.d:3	OTUD4:miR-526b*
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-106a
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-106b
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-17-5p
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-20a
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-20b
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-302a
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-302b
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-302c
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-302d
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-373
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-520a
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-520b
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-520c
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-520d
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-520e
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-520g
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-520h
rs36227325	chr4:146276336	OTUD4:miR-93/291-3p/294/295/302/372/373/520	OTUD4:miR-526b*
rs1063615	chr4:146276389	OTUD4:miR-214	OTUD4:miR-607
rs60709046	chr4:149221545	NR3C2:miR-19	NR3C2:miR-19a
rs60709046	chr4:149221545	NR3C2:miR-19	NR3C2:miR-19b
rs4399968	chr4:153462774	FBXW7:miR-338	FBXW7:miR-338
rs4399968	chr4:153462774	FBXW7:miR-338	FBXW7:miR-593
rs4399968	chr4:153462774	FBXW7:miR-338	FBXW7:miR-624
rs17061725	chr4:176791216	GPM6A:miR-330	GPM6A:miR-330
rs17061725	chr4:176791216	GPM6A:miR-330	GPM6A:miR-518b
rs17061725	chr4:176791216	GPM6A:miR-330	GPM6A:miR-518c
rs17061725	chr4:176791216	GPM6A:miR-330	GPM6A:miR-518d
rs17061725	chr4:176791216	GPM6A:miR-330	GPM6A:miR-520d*
rs11371540	chr4:183960771	ODZ3:miR-29	ODZ3:miR-593
rs11371540	chr4:183960771	ODZ3:miR-29	ODZ3:miR-624
rs11542347	chr4:183960774	ODZ3:miR-29	ODZ3:miR-593
rs11542347	chr4:183960774	ODZ3:miR-29	ODZ3:miR-624
rs2292899	chr4:185915104	ACSL1:miR-124.1:1	ACSL1:miR-142-3p



Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs2292899	chr4:185915104	ACSL1:miR-124.1:1	ACSL1:miR-34a
rs2292899	chr4:185915104	ACSL1:miR-124.1:1	ACSL1:miR-34b
rs2292899	chr4:185915104	ACSL1:miR-124.1:1	ACSL1:miR-34c
rs2292899	chr4:185915104	ACSL1:miR-124.1:1	ACSL1:miR-449
rs2292899	chr4:185915104	ACSL1:miR-124.1:1	ACSL1:miR-449b
rs2292899	chr4:185915104	ACSL1:miR-124.2/506:1	ACSL1:miR-142-3p
rs2292899	chr4:185915104	ACSL1:miR-124.2/506:1	ACSL1:miR-34a
rs2292899	chr4:185915104	ACSL1:miR-124.2/506:1	ACSL1:miR-34b
rs2292899	chr4:185915104	ACSL1:miR-124.2/506:1	ACSL1:miR-34c
rs2292899	chr4:185915104	ACSL1:miR-124.2/506:1	ACSL1:miR-449
rs2292899	chr4:185915104	ACSL1:miR-124.2/506:1	ACSL1:miR-449b
rs2292899	chr4:185915104	ACSL1:miR-34/449	ACSL1:miR-142-3p
rs2292899	chr4:185915104	ACSL1:miR-34/449	ACSL1:miR-34a
rs2292899	chr4:185915104	ACSL1:miR-34/449	ACSL1:miR-34b
rs2292899	chr4:185915104	ACSL1:miR-34/449	ACSL1:miR-34c
rs2292899	chr4:185915104	ACSL1:miR-34/449	ACSL1:miR-449
rs2292899	chr4:185915104	ACSL1:miR-34/449	ACSL1:miR-449b
rs2292899	chr4:185915104	ACSL1:miR-34b	ACSL1:miR-142-3p
rs2292899	chr4:185915104	ACSL1:miR-34b	ACSL1:miR-34a
rs2292899	chr4:185915104	ACSL1:miR-34b	ACSL1:miR-34b
rs2292899	chr4:185915104	ACSL1:miR-34b	ACSL1:miR-34c
rs2292899	chr4:185915104	ACSL1:miR-34b	ACSL1:miR-449
rs2292899	chr4:185915104	ACSL1:miR-34b	ACSL1:miR-449b
rs9332	chr5:7953712	MTRR:miR-361	MTRR:miR-361
rs1044405	chr5:16526310	FLJ20152:miR-124.2/506	FLJ20152:miR-484
rs1393229	chr5:17329645	BASP1:miR-409-3p	BASP1:miR-613
rs1393227	chr5:17329674	BASP1:miR-539	BASP1:miR-539
rs34031034	chr5:37100871	NIPBL:miR-324-5p	NIPBL:miR-544
rs36033427	chr5:38974719	RICTOR:miR-203.1	RICTOR:miR-203
rs36033427	chr5:38974719	RICTOR:miR-203.1	RICTOR:miR-613
rs45622440	chr5:38974721	RICTOR:miR-203.1	RICTOR:miR-203
rs45622440	chr5:38974721	RICTOR:miR-203.1	RICTOR:miR-613
rs16867891	chr5:38976307	RICTOR:miR-326	RICTOR:miR-518c*
rs10033	chr5:54756680	PPAP2A:miR-15/16/195/424/497:1	PPAP2A:miR-503
rs10045390	chr5:56253098	MIER3:miR-30-5p:3	MIER3:miR-30a-5p
rs10045390	chr5:56253098	MIER3:miR-30-5p:3	MIER3:miR-30b
rs10045390	chr5:56253098	MIER3:miR-30-5p:3	MIER3:miR-30c

**Supplemental Table 5: Consensus SNPs in miRNA target sites**

<b>SNP ID</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>	<b>PITA Prediction</b>
rs10045390	chr5:56253098	MIER3:miR-30-5p:3	MIER3:miR-30d
rs10045390	chr5:56253098	MIER3:miR-30-5p:3	MIER3:miR-30e-5p
rs34018584	chr5:61717685	KIF2A:miR-1/206	KIF2A:miR-1
rs34018584	chr5:61717685	KIF2A:miR-1/206	KIF2A:miR-206
rs5868531	chr5:67629989	PIK3R1:miR-153	PIK3R1:miR-153
rs5868531	chr5:67629989	PIK3R1:miR-153	PIK3R1:miR-512-3p
rs5868531	chr5:67629989	PIK3R1:miR-448	PIK3R1:miR-153
rs5868531	chr5:67629989	PIK3R1:miR-448	PIK3R1:miR-512-3p
rs5868532	chr5:67632926	PIK3R1:miR-103/107	PIK3R1:miR-103
rs5868532	chr5:67632926	PIK3R1:miR-103/107	PIK3R1:miR-107
rs5868532	chr5:67632926	PIK3R1:miR-15/16/195/424/497	PIK3R1:miR-103
rs5868532	chr5:67632926	PIK3R1:miR-15/16/195/424/497	PIK3R1:miR-107
rs5868532	chr5:67632926	PIK3R1:miR-503	PIK3R1:miR-103
rs5868532	chr5:67632926	PIK3R1:miR-503	PIK3R1:miR-107
rs34873643	chr5:67632927	PIK3R1:miR-15/16/195/424/497	PIK3R1:miR-103
rs34873643	chr5:67632927	PIK3R1:miR-15/16/195/424/497	PIK3R1:miR-107
rs34873643	chr5:67632927	PIK3R1:miR-503	PIK3R1:miR-103
rs34873643	chr5:67632927	PIK3R1:miR-503	PIK3R1:miR-107
rs12518829	chr5:72420018	FCHO2:miR-218	FCHO2:miR-218
rs12518829	chr5:72420018	FCHO2:miR-218	FCHO2:miR-636
rs11558670	chr5:77816981	LHFPL2:miR-24	LHFPL2:miR-659
rs17206014	chr5:82912040	VCAN:miR-203.1	CSPG2:miR-573
rs8488	chr5:102566651	HISPPD1:miR-181:1	HISPPD1:miR-181b
rs8488	chr5:102566651	HISPPD1:miR-181:1	HISPPD1:miR-181d
rs17297682	chr5:102566693	HISPPD1:miR-181:2	HISPPD1:miR-181a
rs17297682	chr5:102566693	HISPPD1:miR-181:2	HISPPD1:miR-181c
rs56059589	chr5:109230778	MAN2A1:miR-135	MAN2A1:miR-135a
rs56059589	chr5:109230778	MAN2A1:miR-135	MAN2A1:miR-135b
rs11432316	chr5:112208127	APC:miR-129-5p	APC:miR-129
rs11432316	chr5:112208127	APC:miR-129-5p	APC:miR-568
rs11432316	chr5:112208127	APC:miR-153:1	APC:miR-129
rs11432316	chr5:112208127	APC:miR-153:1	APC:miR-568
rs11432316	chr5:112208127	APC:miR-448	APC:miR-129
rs11432316	chr5:112208127	APC:miR-448	APC:miR-568
rs11432316	chr5:112208127	APC:miR-450	APC:miR-129
rs11432316	chr5:112208127	APC:miR-450	APC:miR-568
rs34829795	chr5:112208128	APC:miR-129-5p	APC:miR-129

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs34829795	chr5:112208128	APC:miR-129-5p	APC:miR-568
rs34829795	chr5:112208128	APC:miR-153:1	APC:miR-129
rs34829795	chr5:112208128	APC:miR-153:1	APC:miR-568
rs34829795	chr5:112208128	APC:miR-448	APC:miR-129
rs34829795	chr5:112208128	APC:miR-448	APC:miR-568
rs34829795	chr5:112208128	APC:miR-450	APC:miR-129
rs34829795	chr5:112208128	APC:miR-450	APC:miR-568
rs10558436	chr5:122193370	SNX2:miR-410	SNX2:miR-568
rs1801867	chr5:138693761	MATR3:miR-329	MATR3:miR-521
rs3828609	chr5:149413056	CSF1R:miR-155	CSF1R:miR-512-3p
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-106a
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-106b
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-17-5p
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-20a
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-20b
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-302a
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-302b
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-302c
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-302d
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-373
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-519d
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-519e
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-520a
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-520b
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-520c
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-520d
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-520e
rs62379673	chr5:150864488	FAT2:miR-17-5p/20/93/106/519.d:1	FAT2:miR-526b*
rs998754	chr5:161258512	GABRA1:miR-376c	GABRA1:miR-153
rs998754	chr5:161258512	GABRA1:miR-376c	GABRA1:miR-496
rs7443935	chr5:167622845	ODZ2:let-7/98	ODZ2:let-7a
rs7443935	chr5:167622845	ODZ2:let-7/98	ODZ2:let-7b
rs7443935	chr5:167622845	ODZ2:let-7/98	ODZ2:let-7c
rs7443935	chr5:167622845	ODZ2:let-7/98	ODZ2:let-7d
rs7443935	chr5:167622845	ODZ2:let-7/98	ODZ2:let-7f
rs7443935	chr5:167622845	ODZ2:let-7/98	ODZ2:let-7g
rs7443935	chr5:167622845	ODZ2:let-7/98	ODZ2:let-7i

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs7443935	chr5:167622845	ODZ2:let-7/98	ODZ2:miR-196a
rs7443935	chr5:167622845	ODZ2:let-7/98	ODZ2:miR-196b
rs7443935	chr5:167622845	ODZ2:let-7/98	ODZ2:miR-98
rs2305737	chr5:167878839	RARS:miR-219	RARS:miR-508
rs34486870	chr5:171221591	FBXW11:miR-331	FBXW11:miR-623
rs35661076	chr5:171696199	SH3PXD2B:miR-96	SH3PXD2B:miR-96
rs1049880	chr5:176955648	TMED9:miR-499	TMED9:miR-499
rs14801	chr5:179196851	SQSTM1:miR-17-5p/20/93/106/519.d	SQSTM1:miR-106a
rs14801	chr5:179196851	SQSTM1:miR-17-5p/20/93/106/519.d	SQSTM1:miR-106b
rs14801	chr5:179196851	SQSTM1:miR-17-5p/20/93/106/519.d	SQSTM1:miR-17-5p
rs14801	chr5:179196851	SQSTM1:miR-17-5p/20/93/106/519.d	SQSTM1:miR-20a
rs14801	chr5:179196851	SQSTM1:miR-17-5p/20/93/106/519.d	SQSTM1:miR-20b
rs14801	chr5:179196851	SQSTM1:miR-17-5p/20/93/106/519.d	SQSTM1:miR-372
rs14801	chr5:179196851	SQSTM1:miR-17-5p/20/93/106/519.d	SQSTM1:miR-93
rs1803841	chr5:179595622	MAPK9:miR-17-5p/20/93/106/519.d	MAPK9:miR-106a
rs1803841	chr5:179595622	MAPK9:miR-17-5p/20/93/106/519.d	MAPK9:miR-106b
rs1803841	chr5:179595622	MAPK9:miR-17-5p/20/93/106/519.d	MAPK9:miR-17-5p
rs1803841	chr5:179595622	MAPK9:miR-17-5p/20/93/106/519.d	MAPK9:miR-20a
rs1803841	chr5:179595622	MAPK9:miR-17-5p/20/93/106/519.d	MAPK9:miR-20b
rs1803841	chr5:179595622	MAPK9:miR-17-5p/20/93/106/519.d	MAPK9:miR-520g
rs1803841	chr5:179595622	MAPK9:miR-17-5p/20/93/106/519.d	MAPK9:miR-520h
rs1045385	chr6:10506102	TFAP2A:miR-200bc/429:1	TFAP2A:miR-101
rs1045385	chr6:10506102	TFAP2A:miR-200bc/429:1	TFAP2A:miR-768-3p
rs35188801	chr6:12272937	HIVEP1:miR-410	HIVEP1:miR-380-3p
rs2205794	chr6:16256155	MYLIP:miR-500	MYLIP:miR-500
rs1051950	chr6:35573788	TULP1:miR-134	TULP1:miR-134
rs57137575	chr6:37407402	TBC1D22B:miR-149	TBC1D22B:miR-565
rs57137575	chr6:37407402	TBC1D22B:miR-24	TBC1D22B:miR-565
rs36041587	chr6:47702213	CD2AP:miR-181	CD2AP:miR-181b
rs36041587	chr6:47702213	CD2AP:miR-181	CD2AP:miR-181d
rs60499238	chr6:80681363	ELOVL4:miR-329	ELOVL4:miR-32
rs60499238	chr6:80681363	ELOVL4:miR-329	ELOVL4:miR-603
rs1046001	chr6:89931074	ACY1L2:miR-384	ACY1L2:miR-384
rs1052258	chr6:118134939	NUS1:miR-30-5p	C6orf68:miR-30a-5p
rs1052258	chr6:118134939	NUS1:miR-30-5p	C6orf68:miR-30b
rs1052258	chr6:118134939	NUS1:miR-30-5p	C6orf68:miR-30c
rs1052258	chr6:118134939	NUS1:miR-30-5p	C6orf68:miR-30d

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs1052258	chr6:118134939	NUS1:miR-30-5p	C6orf68:miR-30e-5p
rs36028195	chr6:134349945	TBPL1:miR-145	TBPL1:miR-145
rs10608076	chr6:136555172	PDE7B:miR-369-3p:1	PDE7B:miR-633
rs10608076	chr6:136555172	PDE7B:miR-374	PDE7B:miR-633
rs11558463	chr6:152484616	SYNE1:miR-181	SYNE1:miR-181a
rs11558463	chr6:152484616	SYNE1:miR-181	SYNE1:miR-181c
rs11558463	chr6:152484616	SYNE1:miR-543	SYNE1:miR-181a
rs11558463	chr6:152484616	SYNE1:miR-543	SYNE1:miR-181c
rs14556	chr7:16712557	BZW2:miR-101	BZW2:miR-101
rs35259071	chr7:19122056	TWIST1:miR-361	TWIST1:miR-361
rs1045957	chr7:20421339	ITGB8:miR-19:2	ITGB8:miR-19a
rs1045957	chr7:20421339	ITGB8:miR-19:2	ITGB8:miR-19b
rs11557711	chr7:26198127	HNRPA2B1:miR-539	HNRNPA2B1:miR-548c
rs9807	chr7:26198130	HNRPA2B1:miR-539	HNRNPA2B1:miR-548c
rs7786554	chr7:27099494	HOXA1:miR-99/100	HOXA1:miR-100
rs7786554	chr7:27099494	HOXA1:miR-99/100	HOXA1:miR-99a
rs7786554	chr7:27099494	HOXA1:miR-99/100	HOXA1:miR-99b
rs17449017	chr7:27099672	HOXA1:miR-181	HOXA1:miR-181b
rs17449017	chr7:27099672	HOXA1:miR-181	HOXA1:miR-181d
rs41305921	chr7:27100130	HOXA1:miR-30-5p	HOXA1:miR-30a-5p
rs41305921	chr7:27100130	HOXA1:miR-30-5p	HOXA1:miR-30b
rs41305921	chr7:27100130	HOXA1:miR-30-5p	HOXA1:miR-30c
rs41305921	chr7:27100130	HOXA1:miR-30-5p	HOXA1:miR-30d
rs41305921	chr7:27100130	HOXA1:miR-30-5p	HOXA1:miR-30e-5p
rs3834868	chr7:29519322	CHN2:miR-543	CHN2:miR-578
rs1139448	chr7:41695599	INHBA:miR-205	INHBA:miR-205
rs1139448	chr7:41695599	INHBA:miR-205	INHBA:miR-579
rs56252693	chr7:44840507	H2AFV:miR-139	H2AFV:miR-139
rs56252693	chr7:44840507	H2AFV:miR-139	H2AFV:miR-199a*
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-106a
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-106b
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-17-5p
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-20a
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-20b
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-302a
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-302b
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-302c

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-302d
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-373
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-383
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-520a
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-520b
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-520c
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-520d
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-520e
rs15555	chr7:44885974	PURB:miR-17-5p/20/93/106/519.d:1	PURB:miR-526b*
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-106a
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-106b
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-17-5p
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-20a
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-20b
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-302a
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-302b
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-302c
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-302d
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-373
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-383
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-520a
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-520b
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-520c
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-520d
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-520e
rs15555	chr7:44885974	PURB:miR-93/291-3p/294/295/302/372/373/520	PURB:miR-526b*
rs3832522	chr7:44887769	PURB:miR-129-5p	PURB:miR-768-5p
rs2272282	chr7:96478213	DLX6:miR-505	DLX6:miR-144
rs35095297	chr7:100116401	PERQ1:miR-181:1	PERQ1:miR-181b
rs35095297	chr7:100116401	PERQ1:miR-181:1	PERQ1:miR-181d
rs11762601	chr7:100987767	EMID2:miR-340	EMID2:miR-766
rs59573982	chr7:112193225	TMEM168:miR-135	FLJ13576:miR-135a
rs59573982	chr7:112193225	TMEM168:miR-135	FLJ13576:miR-135b
rs59573982	chr7:112193225	TMEM168:miR-135	FLJ13576:miR-522
rs13225586	chr7:120175764	KCND2:miR-363	KCND2:miR-557
rs41274233	chr7:128198200	CALU:miR-7	CALU:miR-7
rs17168525	chr7:135263802	MTPN:let-7/98	MTPN:miR-202

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs17168525	chr7:135263802	MTPN:miR-181	MTPN:miR-202
rs13233916	chr7:138524956	TTC26:miR-124.2/506	TTC26:miR-506
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-106a
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-106b
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-17-5p
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-20a
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-20b
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-302a
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-302b
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-302c
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-302d
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-373
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-519d
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-519e
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-520a
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-520b
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-520c
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-520d
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-520e
rs17620927	chr7:139799780	MKRN1:miR-17-5p/20/93/106/519.d:1	MKRN1:miR-526*
rs8829	chr7:148135551	EZH2:miR-101:2	EZH2:miR-101
rs8829	chr7:148135551	EZH2:miR-144	EZH2:miR-101
rs62481481	chr7:151463368	MLL3:miR-490	MLL3:miR-659
rs34664602	chr8:1638873	DLGAP2:miR-129-5p:2	DLGAP2:miR-129
rs34664602	chr8:1638873	DLGAP2:miR-33	DLGAP2:miR-129
rs34664602	chr8:1638873	DLGAP2:miR-450:2	DLGAP2:miR-129
rs34341867	chr8:22334511	SLC39A14:miR-490	SLC39A14:miR-490
rs34341867	chr8:22334511	SLC39A14:miR-490	SLC39A14:miR-516-5p
rs34341867	chr8:22334511	SLC39A14:miR-490	SLC39A14:miR-765
rs60163317	chr8:23758153	STC1:miR-101:1	STC1:miR-144
rs60163317	chr8:23758153	STC1:miR-101:1	STC1:miR-148a
rs60163317	chr8:23758153	STC1:miR-101:1	STC1:miR-564
rs4056572	chr8:25341643	KCTD9:miR-203.1	KCTD9:miR-522
rs4056572	chr8:25341643	KCTD9:miR-203.1	KCTD9:miR-573
rs1058457	chr8:26571493	DPYSL2:miR-409-5p	DPYSL2:miR-34b
rs11548610	chr8:38389779	FGFR1:miR-330	FGFR1:miR-545
rs11548610	chr8:38389779	FGFR1:miR-330	FGFR1:miR-559

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs11558227	chr8:42382254	VDAC3:miR-7	VDAC3:miR-768-5p
rs11558227	chr8:42382254	VDAC3:miR-9	VDAC3:miR-768-5p
rs11782817	chr8:57236787	PLAG1:miR-128	PLAG1:miR-144
rs11782817	chr8:57236787	PLAG1:miR-128	PLAG1:miR-27a
rs11782817	chr8:57236787	PLAG1:miR-128	PLAG1:miR-27b
rs11782817	chr8:57236787	PLAG1:miR-144	PLAG1:miR-144
rs11782817	chr8:57236787	PLAG1:miR-144	PLAG1:miR-27a
rs11782817	chr8:57236787	PLAG1:miR-144	PLAG1:miR-27b
rs11782817	chr8:57236787	PLAG1:miR-224	PLAG1:miR-144
rs11782817	chr8:57236787	PLAG1:miR-224	PLAG1:miR-27a
rs11782817	chr8:57236787	PLAG1:miR-224	PLAG1:miR-27b
rs11782817	chr8:57236787	PLAG1:miR-27	PLAG1:miR-144
rs11782817	chr8:57236787	PLAG1:miR-27	PLAG1:miR-27a
rs11782817	chr8:57236787	PLAG1:miR-27	PLAG1:miR-27b
rs60220895	chr8:71186929	NCOA2:miR-448	NCOA2:miR-647
rs60220895	chr8:71186929	NCOA2:miR-448	NCOA2:miR-656
rs62526888	chr8:91706943	TMEM64:miR-19	TMEM64:miR-186
rs3830308	chr8:92040248	EFCBP1:miR-186	EFCBP1:miR-186
rs34984375	chr8:92040255	EFCBP1:miR-142-5p	EFCBP1:miR-186
rs34984375	chr8:92040255	EFCBP1:miR-186	EFCBP1:miR-186
rs61058951	chr8:102769800	NCALD:miR-19	NCALD:miR-527
rs2809	chr8:103908539	AZIN1:miR-96	AZIN1:miR-593
rs2809	chr8:103908539	AZIN1:miR-96	AZIN1:miR-96
rs1053039	chr8:106885662	ZFPM2:miR-142-5p:3	ZFPM2:miR-142-5p
rs12542906	chr8:107833970	OXR1:miR-7	OXR1:miR-7
rs1045664	chr8:113304383	CSMD3:miR-496:1	CSMD3:miR-561
rs3134037	chr8:120005452	TNFRSF11B:miR-216	TNFRSF11B:miR-216
rs3134038	chr8:120005457	TNFRSF11B:miR-216	TNFRSF11B:miR-216
rs4736611	chr8:133927894	PHF20L1:miR-181	PHF20L1:miR-181b
rs4736611	chr8:133927894	PHF20L1:miR-181	PHF20L1:miR-181d
rs5895799	chr8:145062072	PLEC1:miR-124.2/506:1	PLEC1:miR-124a
rs5895799	chr8:145062072	PLEC1:miR-124.2/506:1	PLEC1:miR-506
rs5895799	chr8:145062072	PLEC1:miR-124.2/506:1	PLEC1:miR-566
rs35275364	chr9:5764270	KIAA1432:miR-200bc/429	KIAA1432:miR-200b
rs35275364	chr9:5764270	KIAA1432:miR-200bc/429	KIAA1432:miR-200c
rs35275364	chr9:5764270	KIAA1432:miR-200bc/429	KIAA1432:miR-429
rs62536166	chr9:8304850	PTPRD:miR-148/152	PTPRD:miR-148b



Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs62536166	chr9:8304850	PTPRD:miR-148/152	PTPRD:miR-152
rs62536166	chr9:8304850	PTPRD:miR-148/152	PTPRD:miR-153
rs62536166	chr9:8304850	PTPRD:miR-148/152	PTPRD:miR-34a
rs62536166	chr9:8304850	PTPRD:miR-148/152	PTPRD:miR-34c
rs62536166	chr9:8304850	PTPRD:miR-148/152	PTPRD:miR-449
rs62536166	chr9:8304850	PTPRD:miR-148/152	PTPRD:miR-449b
rs62536166	chr9:8304850	PTPRD:miR-153	PTPRD:miR-148b
rs62536166	chr9:8304850	PTPRD:miR-153	PTPRD:miR-152
rs62536166	chr9:8304850	PTPRD:miR-153	PTPRD:miR-153
rs62536166	chr9:8304850	PTPRD:miR-153	PTPRD:miR-34a
rs62536166	chr9:8304850	PTPRD:miR-153	PTPRD:miR-34c
rs62536166	chr9:8304850	PTPRD:miR-153	PTPRD:miR-449
rs62536166	chr9:8304850	PTPRD:miR-153	PTPRD:miR-449b
rs3209160	chr9:14608316	ZDHHC21:miR-196	ZDHHC21:miR-196a
rs3209160	chr9:14608316	ZDHHC21:miR-196	ZDHHC21:miR-196b
rs3179845	chr9:16406403	BNC2:miR-452	BNC2:miR-452
rs13297394	chr9:32530842	TOPORS:miR-488	TOPORS:miR-488
rs1053447	chr9:35046679	VCP:miR-410	VCP:miR-568
rs1053318	chr9:35046961	VCP:miR-339	VCP:miR-339
rs41278297	chr9:37428158	ZBTB5:miR-29:2	ZBTB5:miR-29a
rs41278297	chr9:37428158	ZBTB5:miR-29:2	ZBTB5:miR-29b
rs41278297	chr9:37428158	ZBTB5:miR-29:2	ZBTB5:miR-29c
rs41286035	chr9:72031225	MAMDC2:miR-217	MAMDC2:miR-7
rs3182600	chr9:74159224	ZFAND5:miR-369-3p	ZFAND5:miR-369-3p
rs3182600	chr9:74159224	ZFAND5:miR-369-3p	ZFAND5:miR-374
rs3182600	chr9:74159224	ZFAND5:miR-496	ZFAND5:miR-369-3p
rs3182600	chr9:74159224	ZFAND5:miR-496	ZFAND5:miR-374
rs41283642	chr9:100955708	TGFBR1:miR-142-3p	TGFBR1:miR-142-3p
rs11550076	chr9:109287173	KLF4:miR-25/32/92/363/367:2	KLF4:miR-32
rs11550076	chr9:109287173	KLF4:miR-25/32/92/363/367:2	KLF4:miR-363
rs41274378	chr9:126324569	NR6A1:miR-377	NR6A1:miR-377
rs1110026	chr9:126324572	NR6A1:miR-377	NR6A1:miR-335
rs1110026	chr9:126324572	NR6A1:miR-377	NR6A1:miR-377
rs56802879	chr9:129534766	TOR2A:miR-380-5p	TOR2A:miR-594
rs3780189	chr9:138238037	QSCN6L1:miR-323	QSOX2:miR-656
rs17293531	chr10:848207	LARP5:miR-409-5p:1	LARP5:miR-485-5p
rs3839918	chr10:8156247	GATA3:miR-27	GATA3:miR-101

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs61048750	chr10:11542657	USP6NL:miR-410	USP6NL:miR-568
rs3057294	chr10:11542660	USP6NL:miR-410	USP6NL:miR-548c
rs3057294	chr10:11542660	USP6NL:miR-410	USP6NL:miR-568
rs5783611	chr10:18869987	CACNB2:miR-30-5p	CACNB2:miR-30a-5p
rs5783611	chr10:18869987	CACNB2:miR-30-5p	CACNB2:miR-30b
rs5783611	chr10:18869987	CACNB2:miR-30-5p	CACNB2:miR-30c
rs5783611	chr10:18869987	CACNB2:miR-30-5p	CACNB2:miR-30d
rs5783611	chr10:18869987	CACNB2:miR-30-5p	CACNB2:miR-30e-5p
rs33980121	chr10:18869988	CACNB2:miR-30-5p	CACNB2:miR-30a-5p
rs33980121	chr10:18869988	CACNB2:miR-30-5p	CACNB2:miR-30b
rs33980121	chr10:18869988	CACNB2:miR-30-5p	CACNB2:miR-30c
rs33980121	chr10:18869988	CACNB2:miR-30-5p	CACNB2:miR-30d
rs33980121	chr10:18869988	CACNB2:miR-30-5p	CACNB2:miR-30e-5p
rs16921055	chr10:21110991	NEBL:miR-410	NEBL:miR-568
rs12360168	chr10:21842580	FLJ45187:miR-130/301:3	FLJ45187:miR-19a
rs12360168	chr10:21842580	FLJ45187:miR-130/301:3	FLJ45187:miR-19b
rs12360168	chr10:21842580	FLJ45187:miR-19:1	FLJ45187:miR-19a
rs12360168	chr10:21842580	FLJ45187:miR-19:1	FLJ45187:miR-19b
rs12360168	chr10:21842580	FLJ45187:miR-93/291-3p/294/295/302/372/373/520	FLJ45187:miR-19a
rs12360168	chr10:21842580	FLJ45187:miR-93/291-3p/294/295/302/372/373/520	FLJ45187:miR-19b
rs1127941	chr10:24912575	ARHGAP21:miR-145	ARHGAP21:miR-199a
rs1127941	chr10:24912575	ARHGAP21:miR-145	ARHGAP21:miR-199b
rs1127941	chr10:24912575	ARHGAP21:miR-199	ARHGAP21:miR-199a
rs1127941	chr10:24912575	ARHGAP21:miR-199	ARHGAP21:miR-199b
rs3184313	chr10:24912974	ARHGAP21:miR-183	ARHGAP21:miR-183
rs3184313	chr10:24912974	ARHGAP21:miR-183	ARHGAP21:miR-652
rs59203025	chr10:31856614	ZEB1:miR-150	ZEB1:miR-629
rs2435355	chr10:42944839	RET:miR-377	RET:miR-602
rs59457804	chr10:69346428	SIRT1:miR-30-5p	SIRT1:miR-30a-5p
rs59457804	chr10:69346428	SIRT1:miR-30-5p	SIRT1:miR-30b
rs59457804	chr10:69346428	SIRT1:miR-30-5p	SIRT1:miR-30c
rs59457804	chr10:69346428	SIRT1:miR-30-5p	SIRT1:miR-30d
rs59457804	chr10:69346428	SIRT1:miR-30-5p	SIRT1:miR-30e-5p
rs3832648	chr10:92491648	HTR7:miR-504	HTR7:miR-10a
rs3832648	chr10:92491648	HTR7:miR-504	HTR7:miR-10b
rs1135170	chr10:102578873	PAX2:miR-153	PAX2:miR-368
rs1135170	chr10:102578873	PAX2:miR-448	PAX2:miR-368

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs34928771	chr10:102712639	C10orf6:miR-130/301:1	C10orf6:miR-130a
rs34928771	chr10:102712639	C10orf6:miR-130/301:1	C10orf6:miR-130b
rs34928771	chr10:102712639	C10orf6:miR-130/301:1	C10orf6:miR-301
rs34928771	chr10:102712639	C10orf6:miR-130/301:1	C10orf6:miR-454-3p
rs3184159	chr10:104565974	C10orf26:miR-128	C10orf26:miR-27a
rs3184159	chr10:104565974	C10orf26:miR-128	C10orf26:miR-27b
rs3184159	chr10:104565974	C10orf26:miR-27:2	C10orf26:miR-27a
rs3184159	chr10:104565974	C10orf26:miR-27:2	C10orf26:miR-27b
rs57707166	chr10:105138640	TAF5:miR-26	TAF5:miR-595
rs59729564	chr10:108324167	SORCS1:miR-363	SORCS1:miR-500
rs59729564	chr10:108324167	SORCS1:miR-363	SORCS1:miR-507
rs59729564	chr10:108324167	SORCS1:miR-452	SORCS1:miR-500
rs59729564	chr10:108324167	SORCS1:miR-452	SORCS1:miR-507
rs59729564	chr10:108324167	SORCS1:miR-500	SORCS1:miR-500
rs59729564	chr10:108324167	SORCS1:miR-500	SORCS1:miR-507
rs34154255	chr10:108326704	SORCS1:miR-383	SORCS1:miR-383
rs2233938	chr10:112043876	SMNDC1:miR-143	SMNDC1:miR-143
rs238739	chr10:115795379	ADRB1:miR-30-5p	ADRB1:miR-30a-5p
rs238739	chr10:115795379	ADRB1:miR-30-5p	ADRB1:miR-30b
rs238739	chr10:115795379	ADRB1:miR-30-5p	ADRB1:miR-30c
rs238739	chr10:115795379	ADRB1:miR-30-5p	ADRB1:miR-30d
rs238739	chr10:115795379	ADRB1:miR-30-5p	ADRB1:miR-30e-5p
rs41284400	chr10:119755562	RAB11FIP2:miR-15/16/195/424/497	RAB11FIP2:miR-424
rs41294349	chr10:123228976	FGFR2:miR-338	FGFR2:miR-338
rs41294349	chr10:123228976	FGFR2:miR-338	FGFR2:miR-770-5p
rs3763763	chr10:124003594	TACC2:miR-25/32/92/363/367	TACC2:miR-363
rs1058510	chr10:126667068	CTBP2:miR-381	CTBP2:miR-455
rs34107887	chr10:131525672	EBF3:miR-145:1	EBF3:miR-145
rs34107887	chr10:131525672	EBF3:miR-145:1	EBF3:miR-30a-3p
rs34107887	chr10:131525672	EBF3:miR-145:1	EBF3:miR-30e-3p
rs1052593	chr11:2861449	CDKN1C:miR-363	CDKN1C:miR-129
rs4698	chr11:10285343	ADM:miR-181	ADM:miR-181b
rs4698	chr11:10285343	ADM:miR-181	ADM:miR-181d
rs10551096	chr11:35598852	FJX1:miR-17-5p/20/93/106/519.d	FJX1:miR-18a
rs10551096	chr11:35598852	FJX1:miR-17-5p/20/93/106/519.d	FJX1:miR-18b
rs10551096	chr11:35598852	FJX1:miR-17-5p/20/93/106/519.d	FJX1:miR-559
rs708228	chr11:57342238	CTNND1:miR-29	CTNND1:miR-593

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs708228	chr11:57342238	CTNND1:miR-29	CTNND1:miR-624
rs633713	chr11:58141817	ZFP91:miR-129-5p	ZFP91:miR-511
rs1058021	chr11:60926820	FLJ12529:miR-361	FLJ12529:miR-361
rs1050059	chr11:62040026	AHNAK:miR-17-5p/20/93/106/519.d	AHNAK:miR-106a
rs1050059	chr11:62040026	AHNAK:miR-17-5p/20/93/106/519.d	AHNAK:miR-106b
rs1050059	chr11:62040026	AHNAK:miR-17-5p/20/93/106/519.d	AHNAK:miR-17-5p
rs1050059	chr11:62040026	AHNAK:miR-17-5p/20/93/106/519.d	AHNAK:miR-20a
rs1050059	chr11:62040026	AHNAK:miR-17-5p/20/93/106/519.d	AHNAK:miR-20b
rs1050059	chr11:62040026	AHNAK:miR-17-5p/20/93/106/519.d	AHNAK:miR-372
rs1050059	chr11:62040026	AHNAK:miR-17-5p/20/93/106/519.d	AHNAK:miR-93
rs34502085	chr11:63728474	STIP1:miR-324-3p	STIP1:miR-18a*
rs34488116	chr11:85347206	PICALM:miR-1/206	PICALM:miR-613
rs36094205	chr11:85347218	PICALM:miR-217	PICALM:miR-632
rs15135	chr11:86334451	FZD4:miR-101:2	FZD4:miR-144
rs15135	chr11:86334451	FZD4:miR-144:2	FZD4:miR-144
rs11574857	chr11:93919323	FUT4:miR-23	FUT4:miR-23a
rs11574857	chr11:93919323	FUT4:miR-23	FUT4:miR-23b
rs11574857	chr11:93919323	FUT4:miR-323	FUT4:miR-23a
rs11574857	chr11:93919323	FUT4:miR-323	FUT4:miR-23b
rs1048876	chr11:114552104	CADM1:miR-124.2/506	CADM1:miR-124a
rs608176	chr11:117538999	SCN2B:miR-141/200a	SCN2B:miR-330
rs9332868	chr11:117898633	MLL:miR-150	MLL:miR-150
rs35180728	chr11:117978797	ARCN1:miR-1/206	ARCN1:miR-409-3p
rs35180728	chr11:117978797	ARCN1:miR-1/206	ARCN1:miR-613
rs35180728	chr11:117978797	ARCN1:miR-409-3p	ARCN1:miR-409-3p
rs35180728	chr11:117978797	ARCN1:miR-409-3p	ARCN1:miR-613
rs61900003	chr11:118712580	RNF26:miR-153	RNF26:miR-153
rs61900003	chr11:118712580	RNF26:miR-448	RNF26:miR-153
rs3737336	chr11:125335907	CDON:miR-181	CDON:miR-181b
rs3737336	chr11:125335907	CDON:miR-181	CDON:miR-181d
rs1049496	chr11:125789619	ST3GAL4:miR-326	ST3GAL4:miR-518c*
rs1049496	chr11:125789619	ST3GAL4:miR-326	ST3GAL4:miR-642
rs41302401	chr11:128186433	FLI1:miR-9	FLI1:miR-9
rs11555857	chr11:131711301	HNT:miR-495:2	HNT:miR-302b*
rs34429881	chr12:263637	JARID1A:miR-132/212:2	JARID1A:miR-633
rs34429881	chr12:263637	JARID1A:miR-194	JARID1A:miR-633
rs61635955	chr12:4792800	KCNA6:miR-153	KCNA6:miR-153

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs61635955	chr12:4792800	KCNA6:miR-448	KCNA6:miR-153
rs1049342	chr12:6549558	CHD4:miR-140	CHD4:miR-140
rs11539540	chr12:6549558	CHD4:miR-140	CHD4:miR-140
rs16932921	chr12:6798830	CD4:miR-181	CD4:miR-181b
rs16932921	chr12:6798830	CD4:miR-181	CD4:miR-181d
rs16932921	chr12:6798830	CD4:miR-181	CD4:miR-579
rs34166149	chr12:11935661	ETV6:miR-369-3p	ETV6:miR-380-3p
rs34166149	chr12:11935661	ETV6:miR-374	ETV6:miR-380-3p
rs34166149	chr12:11935661	ETV6:miR-410	ETV6:miR-380-3p
rs12227395	chr12:41128411	PPHLN1:miR-141/200a	PPHLN1:miR-514
rs59990555	chr12:48012593	C1QL4:miR-27	C1QL4:miR-513
rs36125542	chr12:48780354	SMARCD1:miR-223	SMARCD1:miR-223
rs34307147	chr12:48780369	SMARCD1:miR-491	SMARCD1:miR-491
rs34307147	chr12:48780369	SMARCD1:miR-491	SMARCD1:miR-650
rs5798239	chr12:51890837	RARG:miR-331	RARG:miR-331
rs5798239	chr12:51890837	RARG:miR-331	RARG:miR-518c*
rs11554014	chr12:52735990	HOXC4:miR-26	HOXC4:miR-26a
rs11554014	chr12:52735990	HOXC4:miR-26	HOXC4:miR-26b
rs11554014	chr12:52735990	HOXC4:miR-26	HOXC4:miR-376a*
rs11174462	chr12:61085668	USP15:miR-181:2	USP15:miR-369-3p
rs11174462	chr12:61085668	USP15:miR-181:2	USP15:miR-374
rs11174462	chr12:61085668	USP15:miR-181:2	USP15:miR-655
rs1042741	chr12:64645530	HMGA2:miR-7	HMGA2:miR-765
rs1042742	chr12:64645531	HMGA2:miR-7	HMGA2:miR-765
rs503881	chr12:68259471	FRS2:miR-145	FRS2:miR-569
rs12813359	chr12:69034753	CNOT2:let-7/98	CNOT2:miR-202
rs13599	chr12:91061508	BTG1:miR-93/291-3p/294/295/302/372/373/520	BTG1:miR-372
rs13599	chr12:91061508	BTG1:miR-93/291-3p/294/295/302/372/373/520	BTG1:miR-93
rs1053642	chr12:92494062	SOCS2:miR-194	SOCS2:miR-194
rs1053642	chr12:92494062	SOCS2:miR-194	SOCS2:miR-199a*
rs3730188	chr12:101315989	IGF1:miR-142-5p	IGF1:miR-142-5p
rs3730188	chr12:101315989	IGF1:miR-142-5p	IGF1:miR-559
rs3730188	chr12:101315989	IGF1:miR-142-5p	IGF1:miR-568
rs3730223	chr12:101319491	IGF1:miR-495	IGF1:miR-410
rs5031032	chr12:101320262	IGF1:miR-1/206	IGF1:miR-613
rs5031032	chr12:101320262	IGF1:miR-409-3p	IGF1:miR-613
rs1985752	chr12:111431809	PTPN11:miR-496	PTPN11:miR-496

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**Supplemental Table 5: Consensus SNPs in miRNA target sites**

<b>SNP ID</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>	<b>PITA Prediction</b>
rs9568845	chr13:32576715	STARD13:miR-130/301	STARD13:miR-130a
rs9568845	chr13:32576715	STARD13:miR-130/301	STARD13:miR-130b
rs9568845	chr13:32576715	STARD13:miR-130/301	STARD13:miR-301
rs9568845	chr13:32576715	STARD13:miR-130/301	STARD13:miR-454-3p
rs9568845	chr13:32576715	STARD13:miR-148/152	STARD13:miR-130a
rs9568845	chr13:32576715	STARD13:miR-148/152	STARD13:miR-130b
rs9568845	chr13:32576715	STARD13:miR-148/152	STARD13:miR-301
rs9568845	chr13:32576715	STARD13:miR-148/152	STARD13:miR-454-3p
rs45502300	chr13:35144512	NBEA:miR-190	NBEA:miR-190
rs17226809	chr13:38482916	C13orf23:miR-29	C13orf23:miR-29a
rs17226809	chr13:38482916	C13orf23:miR-29	C13orf23:miR-29b
rs17226809	chr13:38482916	C13orf23:miR-29	C13orf23:miR-29c
rs34241243	chr13:40027924	FOXO1A:miR-135	FOXO1A:miR-135a
rs34241243	chr13:40027924	FOXO1A:miR-135	FOXO1A:miR-135b
rs34241243	chr13:40027924	FOXO1A:miR-135	FOXO1A:miR-584
rs17090557	chr13:40281861	SLC25A15:miR-125/351	SLC25A15:miR-125a
rs17090557	chr13:40281861	SLC25A15:miR-125/351	SLC25A15:miR-125b
rs17069218	chr13:46306351	HTR2A:miR-103/107	HTR2A:miR-203
rs3720	chr13:49171604	KPNA3:miR-141/200a	KPNA3:miR-141
rs3720	chr13:49171604	KPNA3:miR-141/200a	KPNA3:miR-200a
rs3720	chr13:49171604	KPNA3:miR-141/200a	KPNA3:miR-429
rs1043729	chr13:49171832	KPNA3:miR-19	KPNA3:miR-19a
rs1043729	chr13:49171832	KPNA3:miR-19	KPNA3:miR-19b
rs17073314	chr13:49171834	KPNA3:miR-19	KPNA3:miR-19a
rs17073314	chr13:49171834	KPNA3:miR-19	KPNA3:miR-19b
rs7446	chr13:49173516	KPNA3:miR-500	KPNA3:miR-217
rs9805470	chr13:50837391	INTS6:miR-495:1	INTS6:miR-802
rs41286098	chr13:73166801	KLF12:miR-542-3p	KLF12:miR-542-3p
rs1062733	chr13:76477491	FBXL3:miR-142-5p	FBXL3:miR-542-3p
rs1062733	chr13:76477491	FBXL3:miR-142-5p	FBXL3:miR-573
rs1062733	chr13:76477491	FBXL3:miR-17-5p/20/93/106/519.d	FBXL3:miR-542-3p
rs1062733	chr13:76477491	FBXL3:miR-17-5p/20/93/106/519.d	FBXL3:miR-573
rs59945183	chr13:79024809	NDFIP2:miR-135	NDFIP2:miR-522
rs34421625	chr13:87129243	SLITRK5:miR-221/222	SLITRK5:miR-142-5p
rs61965610	chr13:94077468	GPR180:miR-25/32/92/363/367	GPR180:miR-25
rs61965610	chr13:94077468	GPR180:miR-25/32/92/363/367	GPR180:miR-367
rs61965610	chr13:94077468	GPR180:miR-25/32/92/363/367	GPR180:miR-92

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs61965610	chr13:94077468	GPR180:miR-25/32/92/363/367	GPR180:miR-92b
rs9556713	chr13:96843159	MBNL2:miR-181	MBNL2:miR-181a
rs9556713	chr13:96843159	MBNL2:miR-181	MBNL2:miR-181c
rs9556713	chr13:96843159	MBNL2:miR-496:2	MBNL2:miR-181a
rs9556713	chr13:96843159	MBNL2:miR-496:2	MBNL2:miR-181c
rs15004	chr13:96844147	MBNL2:miR-203.1:1	MBNL2:miR-1
rs15004	chr13:96844147	MBNL2:miR-203.1:1	MBNL2:miR-203
rs15004	chr13:96844147	MBNL2:miR-203.1:1	MBNL2:miR-206
rs12869870	chr13:99415306	ZIC5:miR-34/449	ZIC5:miR-34a
rs12869870	chr13:99415306	ZIC5:miR-34/449	ZIC5:miR-34c
rs12869870	chr13:99415306	ZIC5:miR-34/449	ZIC5:miR-449
rs12869870	chr13:99415306	ZIC5:miR-34/449	ZIC5:miR-449b
rs10555	chr13:106619235	LOC728215:miR-205	LOC728215:miR-205
rs1042762	chr14:28308306	FOXG1B:miR-34/449	FOXG1B:miR-142-3p
rs1042762	chr14:28308306	FOXG1B:miR-34/449	FOXG1B:miR-34a
rs1042762	chr14:28308306	FOXG1B:miR-34/449	FOXG1B:miR-34c
rs1042762	chr14:28308306	FOXG1B:miR-34/449	FOXG1B:miR-449
rs1042762	chr14:28308306	FOXG1B:miR-34/449	FOXG1B:miR-449b
rs11152	chr14:30639168	HECTD1:miR-381	HECTD1:miR-381
rs11152	chr14:30639168	HECTD1:miR-381	HECTD1:miR-524*
rs1053667	chr14:44612788	KIAA0423:miR-130/301	KIAA0423:miR-19a
rs1053667	chr14:44612788	KIAA0423:miR-130/301	KIAA0423:miR-19b
rs1053667	chr14:44612788	KIAA0423:miR-19	KIAA0423:miR-19a
rs1053667	chr14:44612788	KIAA0423:miR-19	KIAA0423:miR-19b
rs1134761	chr14:54011483	GMFB:miR-145:2	GMFB:miR-199a
rs1134761	chr14:54011483	GMFB:miR-145:2	GMFB:miR-199b
rs45589533	chr14:54605757	C14orf32:miR-153	C14orf32:miR-519a
rs45589533	chr14:54605757	C14orf32:miR-153	C14orf32:miR-519b
rs45589533	chr14:54605757	C14orf32:miR-153	C14orf32:miR-519c
rs17128429	chr14:54889553	FBXO34:miR-30-5p	FBXO34:miR-30a-5p
rs17128429	chr14:54889553	FBXO34:miR-30-5p	FBXO34:miR-30b
rs17128429	chr14:54889553	FBXO34:miR-30-5p	FBXO34:miR-30c
rs17128429	chr14:54889553	FBXO34:miR-30-5p	FBXO34:miR-30d
rs17128429	chr14:54889553	FBXO34:miR-30-5p	FBXO34:miR-30e-5p
rs57390094	chr14:56337240	OTX2:miR-448:2	OTX2:miR-448
rs17099190	chr14:61283927	HIF1A:miR-433-3p	HIF1A:miR-433
rs8019084	chr14:61284203	HIF1A:miR-135	HIF1A:miR-135a

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs8019084	chr14:61284203	HIF1A:miR-135	HIF1A:miR-135b
rs8019084	chr14:61284203	HIF1A:miR-135	HIF1A:miR-522
rs45487994	chr14:63221119	SGPP1:miR-25/32/92/363/367	SGPP1:miR-25
rs45487994	chr14:63221119	SGPP1:miR-25/32/92/363/367	SGPP1:miR-367
rs45487994	chr14:63221119	SGPP1:miR-25/32/92/363/367	SGPP1:miR-92
rs45487994	chr14:63221119	SGPP1:miR-25/32/92/363/367	SGPP1:miR-92b
rs11557771	chr14:68410996	ACTN1:miR-218	ACTN1:miR-218
rs3209273	chr14:68411038	ACTN1:miR-19	ACTN1:miR-19a
rs3209273	chr14:68411038	ACTN1:miR-19	ACTN1:miR-19b
rs45479600	chr14:70651801	PCNX:miR-200bc/429	PCNX:miR-429
rs11548716	chr14:88692401	FOXN3:miR-182	FOXN3:miR-182
rs11548716	chr14:88692401	FOXN3:miR-96	FOXN3:miR-182
rs15414	chr14:89944277	CALM1:miR-133	CALM1:miR-133a
rs15414	chr14:89944277	CALM1:miR-133	CALM1:miR-133b
rs15414	chr14:89944277	CALM1:miR-133	CALM1:miR-454-5p
rs17127097	chr14:90407216	RPS6KA5:miR-204/211	RPS6KA5:miR-204
rs17127097	chr14:90407216	RPS6KA5:miR-204/211	RPS6KA5:miR-211
rs35979920	chr14:91505736	TRIP11:miR-17-5p/20/93/106/519.d	TRIP11:miR-106a
rs35979920	chr14:91505736	TRIP11:miR-17-5p/20/93/106/519.d	TRIP11:miR-106b
rs35979920	chr14:91505736	TRIP11:miR-17-5p/20/93/106/519.d	TRIP11:miR-17-5p
rs35979920	chr14:91505736	TRIP11:miR-17-5p/20/93/106/519.d	TRIP11:miR-20a
rs35979920	chr14:91505736	TRIP11:miR-17-5p/20/93/106/519.d	TRIP11:miR-20b
rs61698538	chr14:92777965	BTBD7:miR-379	BTBD7:miR-509
rs56033032	chr14:96101306	PAPOLA:miR-490	PAPOLA:miR-490
rs56033032	chr14:96101306	PAPOLA:miR-490	PAPOLA:miR-619
rs12147717	chr14:96103097	PAPOLA:miR-330	PAPOLA:miR-559
rs35659612	chr14:101759644	WDR20:miR-369-3p	WDR20:miR-369-3p
rs35659612	chr14:101759644	WDR20:miR-369-3p	WDR20:miR-374
rs35659612	chr14:101759644	WDR20:miR-369-3p	WDR20:miR-380-3p
rs35659612	chr14:101759644	WDR20:miR-374	WDR20:miR-369-3p
rs35659612	chr14:101759644	WDR20:miR-374	WDR20:miR-374
rs35659612	chr14:101759644	WDR20:miR-374	WDR20:miR-380-3p
rs6478	chr14:101759646	WDR20:miR-369-3p	WDR20:miR-369-3p
rs6478	chr14:101759646	WDR20:miR-369-3p	WDR20:miR-374
rs6478	chr14:101759646	WDR20:miR-369-3p	WDR20:miR-380-3p
rs6478	chr14:101759646	WDR20:miR-374	WDR20:miR-369-3p
rs6478	chr14:101759646	WDR20:miR-374	WDR20:miR-374



Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs6478	chr14:101759646	WDR20:miR-374	WDR20:miR-380-3p
rs11704	chr14:101878408	C14orf131:miR-23	C14orf131:miR-23a
rs11704	chr14:101878408	C14orf131:miR-23	C14orf131:miR-23b
rs1059886	chr15:32459510	GOLGA8A:miR-25/32/92/363/367:1	GOLGA8A:miR-139
rs1059886	chr15:32459510	GOLGA8A:miR-25/32/92/363/367:1	GOLGA8A:miR-25
rs1059886	chr15:32459510	GOLGA8A:miR-25/32/92/363/367:1	GOLGA8A:miR-27a
rs1059886	chr15:32459510	GOLGA8A:miR-25/32/92/363/367:1	GOLGA8A:miR-27b
rs1059886	chr15:32459510	GOLGA8A:miR-25/32/92/363/367:1	GOLGA8A:miR-367
rs1059886	chr15:32459510	GOLGA8A:miR-25/32/92/363/367:1	GOLGA8A:miR-92
rs1059886	chr15:32459510	GOLGA8A:miR-25/32/92/363/367:1	GOLGA8A:miR-92b
rs4144689	chr15:32606811	GOLGA8B:miR-19	GOLGA8B:miR-527
rs34368044	chr15:41022788	UBR1:miR-142-5p	UBR1:miR-559
rs34368044	chr15:41022788	UBR1:miR-142-5p	UBR1:miR-573
rs34368044	chr15:41022788	UBR1:miR-17-5p/20/93/106/519.d	UBR1:miR-559
rs34368044	chr15:41022788	UBR1:miR-17-5p/20/93/106/519.d	UBR1:miR-573
rs3209488	chr15:41850875	PDIA3:miR-148/152	PDIA3:miR-553
rs58383159	chr15:45852767	SEMA6D:miR-1/206	SEMA6D:miR-613
rs58383159	chr15:45852767	SEMA6D:miR-409-3p	SEMA6D:miR-613
rs16976737	chr15:54171090	RFXDC2:miR-377	RFXDC2:miR-154*
rs16976737	chr15:54171090	RFXDC2:miR-377	RFXDC2:miR-487a
rs3751539	chr15:57175505	RNF111:miR-128	RNF111:miR-27a
rs3751539	chr15:57175505	RNF111:miR-128	RNF111:miR-27b
rs3751539	chr15:57175505	RNF111:miR-144:2	RNF111:miR-27a
rs3751539	chr15:57175505	RNF111:miR-144:2	RNF111:miR-27b
rs3751539	chr15:57175505	RNF111:miR-27:2	RNF111:miR-27a
rs3751539	chr15:57175505	RNF111:miR-27:2	RNF111:miR-27b
rs58293779	chr15:60920161	TLN2:miR-200bc/429	TLN2:miR-374
rs62012486	chr15:63196809	PDCD7:miR-410	PDCD7:miR-410
rs62012486	chr15:63196809	PDCD7:miR-410	PDCD7:miR-620
rs45615538	chr15:64861144	SMAD6:miR-25/32/92/363/367	SMAD6:miR-25
rs45615538	chr15:64861144	SMAD6:miR-25/32/92/363/367	SMAD6:miR-367
rs45615538	chr15:64861144	SMAD6:miR-25/32/92/363/367	SMAD6:miR-767-5p
rs45615538	chr15:64861144	SMAD6:miR-25/32/92/363/367	SMAD6:miR-92
rs45615538	chr15:64861144	SMAD6:miR-25/32/92/363/367	SMAD6:miR-92b
rs61628540	chr15:70831616	ADPGK:miR-1/206	ADPGK:miR-1
rs61628540	chr15:70831616	ADPGK:miR-1/206	ADPGK:miR-206
rs61628540	chr15:70831616	ADPGK:miR-1/206	ADPGK:miR-455

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs1043589	chr15:71639527	NPTN:miR-146	NPTN:miR-146a
rs1043589	chr15:71639527	NPTN:miR-146	NPTN:miR-146b
rs2071501	chr15:72882210	CSK:miR-216	CSK:miR-216
rs2071501	chr15:72882210	CSK:miR-216	CSK:miR-583
rs1062752	chr15:76977041	MORF4L1:miR-33	MORF4L1:miR-33
rs1062752	chr15:76977041	MORF4L1:miR-33	MORF4L1:miR-33b
rs1062752	chr15:76977041	MORF4L1:miR-33	MORF4L1:miR-586
rs1042499	chr15:88129309	ANPEP:miR-125/351	ANPEP:miR-125a
rs1042499	chr15:88129309	ANPEP:miR-125/351	ANPEP:miR-125b
rs1042499	chr15:88129309	ANPEP:miR-125/351	ANPEP:miR-516-3p
rs12148341	chr15:88424595	ZNF710:let-7/98	ZNF710:let-7e
rs1802604	chr15:99274190	ALDH1A3:miR-101	ALDH1A3:miR-144
rs1802604	chr15:99274190	ALDH1A3:miR-101	ALDH1A3:miR-656
rs1802604	chr15:99274190	ALDH1A3:miR-144	ALDH1A3:miR-144
rs1802604	chr15:99274190	ALDH1A3:miR-144	ALDH1A3:miR-656
rs7187345	chr16:3953930	ADCY9:miR-7	ADCY9:miR-7
rs35715530	chr16:15597464	KIAA0430:miR-124.2/506	LKAP:miR-124a
rs12907	chr16:15726154	NDE1:miR-28	NDE1:miR-558
rs3380	chr16:24133766	PRKCB1:miR-494	PRKCB1:miR-141
rs3380	chr16:24133766	PRKCB1:miR-494	PRKCB1:miR-200a
rs3380	chr16:24133766	PRKCB1:miR-494	PRKCB1:miR-429
rs3837785	chr16:24134462	PRKCB1:miR-129-5p	PRKCB1:miR-129
rs3837785	chr16:24134462	PRKCB1:miR-450	PRKCB1:miR-129
rs1062379	chr16:29989207	ALDOA:miR-34/449	ALDOA:miR-34a
rs1062379	chr16:29989207	ALDOA:miR-34/449	ALDOA:miR-34c
rs1062379	chr16:29989207	ALDOA:miR-34/449	ALDOA:miR-449
rs1062379	chr16:29989207	ALDOA:miR-34/449	ALDOA:miR-449b
rs34494127	chr16:30588903	FBS1:miR-493-5p	FBRS:miR-493-5p
rs1054478	chr16:49727522	SALL1:miR-17-5p/20/93/106/519.d	SALL1:miR-18a
rs1054478	chr16:49727522	SALL1:miR-17-5p/20/93/106/519.d	SALL1:miR-18b
rs1054478	chr16:49727522	SALL1:miR-17-5p/20/93/106/519.d	SALL1:miR-519a
rs1054478	chr16:49727522	SALL1:miR-17-5p/20/93/106/519.d	SALL1:miR-519b
rs1054478	chr16:49727522	SALL1:miR-17-5p/20/93/106/519.d	SALL1:miR-519c
rs1799839	chr16:54097153	MMP2:miR-29	MMP2:miR-593
rs1799839	chr16:54097153	MMP2:miR-29	MMP2:miR-624
rs9927827	chr16:65691603	CBFB:miR-365	CBFB:miR-155
rs7203660	chr16:66949983	SMPD3:miR-144	SMPD3:miR-633

**Supplemental Table 5: Consensus SNPs in miRNA target sites**

<b>SNP ID</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>	<b>PITA Prediction</b>
rs3169307	chr16:67709509	CTF8:miR-128	CTF8:miR-128a
rs3169307	chr16:67709509	CTF8:miR-128	CTF8:miR-128b
rs1053412	chr16:71374408	ATBF1:miR-542-3p	ATBF1:miR-542-3p
rs3841241	chr16:71376466	ATBF1:miR-494:1	ATBF1:miR-494
rs16974598	chr16:83370524	USP10:miR-138	USP10:miR-138
rs11544837	chr16:84264538	KIAA0182:miR-495	KIAA0182:miR-495
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-106a
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-106b
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-17-5p
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-20a
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-20b
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-302a
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-302b
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-302c
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-302d
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-373
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-450
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-520a
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-520b
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-520c
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-520d
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-520e
rs1064245	chr17:591736	FAM57A:miR-17-5p/20/93/106/519.d	FAM57A:miR-526b*
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-106a
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-106b
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-17-5p
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-20a
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-20b
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-302a
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-302b
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-302c
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-302d
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-373
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-450
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-520a
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-520b
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-520c

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-520d
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-520e
rs1064245	chr17:591736	FAM57A:miR-93/291-3p/294/295/302/372/373/520	FAM57A:miR-526b*
rs2233658	chr17:4789820	PFN1:miR-140	PFN1:miR-140
rs3177209	chr17:7084472	GABARAP:miR-140	GABARAP:miR-140
rs1133249	chr17:7415883	SENP3:miR-410	SENP3:miR-568
rs58537439	chr17:7415883	SENP3:miR-410	SENP3:miR-568
rs58805209	chr17:7415885	SENP3:miR-410	SENP3:miR-568
rs1048750	chr17:7984600	PER1:miR-146	PER1:miR-580
rs1048750	chr17:7984600	PER1:miR-146	PER1:miR-614
rs1051780	chr17:8003781	VAMP2:miR-34/449:1	VAMP2:miR-34b
rs1051780	chr17:8003781	VAMP2:miR-34b	VAMP2:miR-34b
rs1077790	chr17:17338614	RASD1:miR-130/301	RASD1:miR-18a
rs1077790	chr17:17338614	RASD1:miR-130/301	RASD1:miR-18b
rs1077790	chr17:17338614	RASD1:miR-17-5p/20/93/106/519.d	RASD1:miR-18a
rs1077790	chr17:17338614	RASD1:miR-17-5p/20/93/106/519.d	RASD1:miR-18b
rs9914083	chr17:17687821	TOM1L2:miR-19	TOM1L2:miR-19a
rs9914083	chr17:17687821	TOM1L2:miR-19	TOM1L2:miR-19b
rs10648639	chr17:17910490	C17orf39:miR-182	C17orf39:miR-521
rs10648639	chr17:17910490	C17orf39:miR-96	C17orf39:miR-521
rs56295612	chr17:24977271	SSH2:miR-421	SSH2:miR-105
rs56295612	chr17:24977271	SSH2:miR-421	SSH2:miR-519e
rs1044675	chr17:35330858	ORMDL3:miR-200bc/429	ORMDL3:miR-429
rs11550320	chr17:37100703	EIF1:miR-381	EIF1:miR-656
rs5001709	chr17:37134071	HAP1:miR-328	HAP1:miR-339
rs5001709	chr17:37134071	HAP1:miR-339	HAP1:miR-339
rs1802740	chr17:37531149	RAB5C:miR-18	RAB5C:miR-18a
rs1802740	chr17:37531149	RAB5C:miR-18	RAB5C:miR-18b
rs34694406	chr17:37605734	STAT5B:miR-141/200a:2	STAT5B:miR-330
rs1051166	chr17:37985114	LOC162427:miR-128:2	LOC162427:miR-27a
rs1051166	chr17:37985114	LOC162427:miR-128:2	LOC162427:miR-27b
rs1051166	chr17:37985114	LOC162427:miR-27	LOC162427:miR-27a
rs1051166	chr17:37985114	LOC162427:miR-27	LOC162427:miR-27b
rs36087185	chr17:39441544	NAGS:miR-135	NAGS:miR-135a
rs36087185	chr17:39441544	NAGS:miR-135	NAGS:miR-135b
rs35468252	chr17:39469019	LSM12:miR-188	LSM12:miR-642
rs1136638	chr17:43115445	KPNB1:miR-218	KPNB1:miR-581

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs4793924	chr17:53405033	VEZF1:miR-1/206	ZNF161:miR-122a
rs1051424	chr17:55379106	RPS6KB1:miR-129-5p	RPS6KB1:miR-129
rs1051424	chr17:55379106	RPS6KB1:miR-129-5p	RPS6KB1:miR-507
rs1051424	chr17:55379106	RPS6KB1:miR-363:1	RPS6KB1:miR-129
rs1051424	chr17:55379106	RPS6KB1:miR-363:1	RPS6KB1:miR-507
rs1051424	chr17:55379106	RPS6KB1:miR-450	RPS6KB1:miR-129
rs1051424	chr17:55379106	RPS6KB1:miR-450	RPS6KB1:miR-507
rs1051424	chr17:55379106	RPS6KB1:miR-500	RPS6KB1:miR-129
rs1051424	chr17:55379106	RPS6KB1:miR-500	RPS6KB1:miR-507
rs1044519	chr17:57378383	THRAP1:miR-369-3p:1	THRAP1:miR-374
rs1044519	chr17:57378383	THRAP1:miR-374	THRAP1:miR-374
rs57140103	chr17:65684605	KCNJ2:miR-193	KCNJ2:miR-193a
rs11555392	chr17:67634027	SOX9:miR-495	SOX9:miR-495
rs34511924	chr17:70643677	HN1:miR-142-5p	HN1:miR-148b
rs34511924	chr17:70643677	HN1:miR-142-5p	HN1:miR-152
rs34511924	chr17:70643677	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-148b
rs34511924	chr17:70643677	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-152
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-106a
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-106b
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-17-5p
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-20a
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-20b
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-302a
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-302b
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-302c
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-302d
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-373
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-520a
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-520b
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-520c
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-520d
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-520e
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-520f
rs3178287	chr17:70643683	HN1:miR-142-5p	HN1:miR-526b*
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-106a
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-106b
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-17-5p

**Supplemental Table 5: Consensus SNPs in miRNA target sites**

<b>SNP ID</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>	<b>PITA Prediction</b>
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-20a
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-20b
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-302a
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-302b
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-302c
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-302d
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-373
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-520a
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-520b
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-520c
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-520d
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-520e
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-520f
rs3178287	chr17:70643683	HN1:miR-17-5p/20/93/106/519.d	HN1:miR-526b*
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-106a
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-106b
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-17-5p
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-20a
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-20b
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-302a
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-302b
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-302c
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-302d
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-373
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-520a
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-520b
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-520c
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-520d
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-520e
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-520f
rs3178287	chr17:70643683	HN1:miR-93/291-3p/294/295/302/372/373/520	HN1:miR-526b*
rs3073415	chr17:71285962	H3F3B:miR-10	H3F3B:miR-10a
rs3073415	chr17:71285962	H3F3B:miR-10	H3F3B:miR-10b
rs3073415	chr17:71285962	H3F3B:miR-486	H3F3B:miR-10a
rs3073415	chr17:71285962	H3F3B:miR-486	H3F3B:miR-10b
rs59650175	chr17:75421687	CBX4:miR-129-5p	CBX4:miR-129
rs59650175	chr17:75421687	CBX4:miR-129-5p	CBX4:miR-557

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs59650175	chr17:75421687	CBX4:miR-363	CBX4:miR-129
rs59650175	chr17:75421687	CBX4:miR-363	CBX4:miR-557
rs59650175	chr17:75421687	CBX4:miR-450	CBX4:miR-129
rs59650175	chr17:75421687	CBX4:miR-450	CBX4:miR-557
rs1140892	chr17:77091951	ACTG1:miR-10	ACTG1:miR-10a
rs1140892	chr17:77091951	ACTG1:miR-10	ACTG1:miR-10b
rs56201915	chr17:77092121	ACTG1:miR-381:2	ACTG1:miR-381
rs11549163	chr17:77092126	ACTG1:miR-381:2	ACTG1:miR-381
rs14462	chr18:16784002	ROCK1:miR-323	ROCK1:miR-323
rs9950418	chr18:30722110	DTNA:miR-19:1	DTNA:miR-527
rs1801938	chr19:2052071	AP3D1:miR-1/206	AP3D1:miR-409-3p
rs1801938	chr19:2052071	AP3D1:miR-1/206	AP3D1:miR-613
rs1801940	chr19:2052165	AP3D1:miR-17-5p/20/93/106/519.d	AP3D1:miR-573
rs1801940	chr19:2052165	AP3D1:miR-542-3p	AP3D1:miR-573
rs1049232	chr19:6702293	TRIP10:miR-17-5p/20/93/106/519.d	TRIP10:miR-18a
rs1049232	chr19:6702293	TRIP10:miR-17-5p/20/93/106/519.d	TRIP10:miR-18b
rs1049232	chr19:6702293	TRIP10:miR-17-5p/20/93/106/519.d	TRIP10:miR-519a
rs1049232	chr19:6702293	TRIP10:miR-17-5p/20/93/106/519.d	TRIP10:miR-519b
rs1049232	chr19:6702293	TRIP10:miR-17-5p/20/93/106/519.d	TRIP10:miR-519c
rs2307000	chr19:7835531	EVI5L:miR-182	EVI5L:miR-96
rs2307000	chr19:7835531	EVI5L:miR-96	EVI5L:miR-96
rs45587445	chr19:10439915	PDE4A:miR-7	PDE4A:miR-7
rs56214729	chr19:11425661	ELAVL3:miR-129-5p:2	ELAVL3:miR-511
rs11555160	chr19:15218942	BRD4:miR-493-5p	BRD4:miR-524*
rs11555160	chr19:15218942	BRD4:miR-493-5p	BRD4:miR-568
rs3218074	chr19:35007016	CCNE1:miR-15/16/195/424/497:2	CCNE1:miR-15a
rs3218074	chr19:35007016	CCNE1:miR-15/16/195/424/497:2	CCNE1:miR-15b
rs3218074	chr19:35007016	CCNE1:miR-15/16/195/424/497:2	CCNE1:miR-16
rs3218074	chr19:35007016	CCNE1:miR-15/16/195/424/497:2	CCNE1:miR-195
rs3218074	chr19:35007016	CCNE1:miR-15/16/195/424/497:2	CCNE1:miR-497
rs3218074	chr19:35007016	CCNE1:miR-503:2	CCNE1:miR-15a
rs3218074	chr19:35007016	CCNE1:miR-503:2	CCNE1:miR-15b
rs3218074	chr19:35007016	CCNE1:miR-503:2	CCNE1:miR-16
rs3218074	chr19:35007016	CCNE1:miR-503:2	CCNE1:miR-195
rs3218074	chr19:35007016	CCNE1:miR-503:2	CCNE1:miR-497
rs1044041	chr19:39410783	LSM14A:miR-381:1	LSM14A:miR-381
rs1802473	chr19:39652609	SAE2:miR-133	UBA2:miR-659

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs10561	chr19:40462485	USF2:miR-186	USF2:miR-587
rs1056976	chr20:412502	CSNK2A1:miR-411	CSNK2A1:miR-564
rs3209499	chr20:2077179	STK35:miR-135	STK35:miR-135a
rs3209499	chr20:2077179	STK35:miR-135	STK35:miR-135b
rs16435	chr20:23303456	NAPB:miR-200bc/429	NAPB:miR-200b
rs16435	chr20:23303456	NAPB:miR-200bc/429	NAPB:miR-200c
rs16435	chr20:23303456	NAPB:miR-200bc/429	NAPB:miR-429
rs11467962	chr20:23303457	NAPB:miR-200bc/429	NAPB:miR-200b
rs11467962	chr20:23303457	NAPB:miR-200bc/429	NAPB:miR-200c
rs11467962	chr20:23303457	NAPB:miR-200bc/429	NAPB:miR-429
rs3208684	chr20:29716466	BCL2L1:let-7/98	BCL2L1:let-7e
rs3208684	chr20:29716466	BCL2L1:let-7/98	BCL2L1:miR-491
rs34271817	chr20:30489193	ASXL1:miR-7	ASXL1:miR-608
rs34271817	chr20:30489193	ASXL1:miR-7	ASXL1:miR-7
rs62206361	chr20:35584875	NNAT:miR-488	NNAT:miR-383
rs2664575	chr20:47295885	ZNFX1:miR-153	ZNFX1:miR-153
rs2664575	chr20:47295885	ZNFX1:miR-153	ZNFX1:miR-18a
rs2664575	chr20:47295885	ZNFX1:miR-153	ZNFX1:miR-18b
rs2664575	chr20:47295885	ZNFX1:miR-153	ZNFX1:miR-519a
rs2664575	chr20:47295885	ZNFX1:miR-153	ZNFX1:miR-519b
rs2664575	chr20:47295885	ZNFX1:miR-153	ZNFX1:miR-519c
rs2664575	chr20:47295885	ZNFX1:miR-17-5p/20/93/106/519.d:2	ZNFX1:miR-153
rs2664575	chr20:47295885	ZNFX1:miR-17-5p/20/93/106/519.d:2	ZNFX1:miR-18a
rs2664575	chr20:47295885	ZNFX1:miR-17-5p/20/93/106/519.d:2	ZNFX1:miR-18b
rs2664575	chr20:47295885	ZNFX1:miR-17-5p/20/93/106/519.d:2	ZNFX1:miR-519a
rs2664575	chr20:47295885	ZNFX1:miR-17-5p/20/93/106/519.d:2	ZNFX1:miR-519b
rs2664575	chr20:47295885	ZNFX1:miR-17-5p/20/93/106/519.d:2	ZNFX1:miR-519c
rs6067490	chr20:48633727	PTPN1:miR-1/206	PTPN1:miR-613
rs11469346	chr20:48803014	PARD6B:let-7/98	PARD6B:let-7a
rs11469346	chr20:48803014	PARD6B:let-7/98	PARD6B:let-7b
rs11469346	chr20:48803014	PARD6B:let-7/98	PARD6B:let-7c
rs11469346	chr20:48803014	PARD6B:let-7/98	PARD6B:let-7d
rs11469346	chr20:48803014	PARD6B:let-7/98	PARD6B:let-7f
rs11469346	chr20:48803014	PARD6B:let-7/98	PARD6B:let-7g
rs11469346	chr20:48803014	PARD6B:let-7/98	PARD6B:let-7i
rs11469346	chr20:48803014	PARD6B:let-7/98	PARD6B:miR-98
rs6128327	chr20:56375963	RAB22A:miR-30-5p	RAB22A:miR-30a-5p

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Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs6128327	chr20:56375963	RAB22A:miR-30-5p	RAB22A:miR-30b
rs6128327	chr20:56375963	RAB22A:miR-30-5p	RAB22A:miR-30c
rs6128327	chr20:56375963	RAB22A:miR-30-5p	RAB22A:miR-30d
rs6128327	chr20:56375963	RAB22A:miR-30-5p	RAB22A:miR-30e-5p
rs61713651	chr20:56453967	VAPB:miR-221/222	VAPB:miR-153
rs61713651	chr20:56453967	VAPB:miR-376c	VAPB:miR-153
rs35295928	chr20:56687929	STX16:miR-493-5p	STX16:miR-568
rs60585835	chr20:62059092	ZNF512B:let-7/98:3	GM632:let-7e
rs56253511	chr21:10060673	BAGE2:miR-122	BAGE2:miR-134
rs56253511	chr21:10060673	BAGE2:miR-122	BAGE4:miR-134
rs56253511	chr21:10060673	BAGE3:miR-122	BAGE2:miR-134
rs56253511	chr21:10060673	BAGE3:miR-122	BAGE4:miR-134
rs56253511	chr21:10060673	BAGE4:miR-122	BAGE2:miR-134
rs56253511	chr21:10060673	BAGE4:miR-122	BAGE4:miR-134
rs56253511	chr21:10060673	BAGE5:miR-122	BAGE2:miR-134
rs56253511	chr21:10060673	BAGE5:miR-122	BAGE4:miR-134
rs58652636	chr21:17887948	BTG3:miR-142-5p	BTG3:miR-142-5p
rs3833344	chr21:17887954	BTG3:miR-142-5p	BTG3:miR-142-5p
rs3833344	chr21:17887954	BTG3:miR-142-5p	BTG3:miR-376a*
rs3833344	chr21:17887954	BTG3:miR-142-5p	BTG3:miR-559
rs2850036	chr21:34393355	SLC5A3:miR-124.2/506:1	SLC5A3:miR-124a
rs2850036	chr21:34393355	SLC5A3:miR-124.2/506:1	SLC5A3:miR-524
rs2850036	chr21:34393355	SLC5A3:miR-124.2/506:1	SLC5A3:miR-525*
rs6005034	chr22:19637397	CRKL:miR-188	CRKL:miR-598
rs6005034	chr22:19637397	CRKL:miR-204/211	CRKL:miR-598
rs5753562	chr22:20133190	HIC2:miR-93/291-3p/294/295/302/372/373/520	HIC2:miR-372
rs5753562	chr22:20133190	HIC2:miR-93/291-3p/294/295/302/372/373/520	HIC2:miR-93
rs9609460	chr22:20134583	HIC2:miR-135	HIC2:miR-644
rs41282607	chr22:20448229	MAPK1:miR-217	MAPK1:miR-217
rs41282607	chr22:20448229	MAPK1:miR-217	MAPK1:miR-606
rs1801820	chr22:31999178	LARGE:miR-30-5p	LARGE:miR-30a-5p
rs1801820	chr22:31999178	LARGE:miR-30-5p	LARGE:miR-30b
rs1801820	chr22:31999178	LARGE:miR-30-5p	LARGE:miR-30c
rs1801820	chr22:31999178	LARGE:miR-30-5p	LARGE:miR-30d
rs1801820	chr22:31999178	LARGE:miR-30-5p	LARGE:miR-30e-5p
rs5755721	chr22:34120168	HMOX1:miR-377	HMOX1:miR-377
rs8226	chr22:35007360	MYH9:miR-124.1	MYH9:miR-124a

Supplemental Table 5: Consensus SNPs in miRNA target sites

SNP ID	SNP Position (hg18)	TargetScanS Prediction	PITA Prediction
rs8226	chr22:35007360	MYH9:miR-124.1	MYH9:miR-524
rs8226	chr22:35007360	MYH9:miR-124.1	MYH9:miR-525*
rs8226	chr22:35007360	MYH9:miR-124.2/506	MYH9:miR-124a
rs8226	chr22:35007360	MYH9:miR-124.2/506	MYH9:miR-524
rs8226	chr22:35007360	MYH9:miR-124.2/506	MYH9:miR-525*
rs1054208	chr22:37016876	CSNK1E:miR-495	CSNK1E:miR-495
rs11548925	chr22:37016880	CSNK1E:miR-495	CSNK1E:miR-495
rs56111992	chr22:38415556	CACNA1I:miR-377	CACNA1I:miR-220
rs4821943	chr22:39052691	TNRC6B:miR-384:2	TNRC6B:miR-378
rs1053764	chr22:49232361	SBF1:miR-30-5p	SBF1:miR-302a*
rs1053764	chr22:49232361	SBF1:miR-30-5p	SBF1:miR-30a-5p
rs1053764	chr22:49232361	SBF1:miR-30-5p	SBF1:miR-30b
rs1053764	chr22:49232361	SBF1:miR-30-5p	SBF1:miR-30c
rs1053764	chr22:49232361	SBF1:miR-30-5p	SBF1:miR-30d
rs1053764	chr22:49232361	SBF1:miR-30-5p	SBF1:miR-30e-5p
rs5927686	chrX:31049752	DMD:miR-101	DMD:miR-139
rs5927686	chrX:31049752	DMD:miR-101	DMD:miR-144
rs5927686	chrX:31049752	DMD:miR-101	DMD:miR-374
rs5927686	chrX:31049752	DMD:miR-139	DMD:miR-139
rs5927686	chrX:31049752	DMD:miR-139	DMD:miR-144
rs5927686	chrX:31049752	DMD:miR-139	DMD:miR-374
rs5927686	chrX:31049752	DMD:miR-144	DMD:miR-139
rs5927686	chrX:31049752	DMD:miR-144	DMD:miR-144
rs5927686	chrX:31049752	DMD:miR-144	DMD:miR-374
rs708452	chrX:41094304	DDX3X:miR-139	DDX3X:miR-139
rs708452	chrX:41094304	DDX3X:miR-139	DDX3X:miR-17-3p
rs3810701	chrX:63321797	FAM123B:miR-34/449	FAM123B:miR-148b
rs3810701	chrX:63321797	FAM123B:miR-34/449	FAM123B:miR-152
rs3810701	chrX:63321797	FAM123B:miR-34/449	FAM123B:miR-34a
rs3810701	chrX:63321797	FAM123B:miR-34/449	FAM123B:miR-34b
rs3810701	chrX:63321797	FAM123B:miR-34/449	FAM123B:miR-34c
rs3810701	chrX:63321797	FAM123B:miR-34/449	FAM123B:miR-449
rs3810701	chrX:63321797	FAM123B:miR-34/449	FAM123B:miR-449b
rs3810701	chrX:63321797	FAM123B:miR-34b	FAM123B:miR-148b
rs3810701	chrX:63321797	FAM123B:miR-34b	FAM123B:miR-152
rs3810701	chrX:63321797	FAM123B:miR-34b	FAM123B:miR-34a
rs3810701	chrX:63321797	FAM123B:miR-34b	FAM123B:miR-34b

**Supplemental Table 5: Consensus SNPs in miRNA target sites**

<b>SNP ID</b>	<b>SNP Position (hg18)</b>	<b>TargetScanS Prediction</b>	<b>PITA Prediction</b>
rs3810701	chrX:63321797	FAM123B:miR-34b	FAM123B:miR-34c
rs3810701	chrX:63321797	FAM123B:miR-34b	FAM123B:miR-449
rs3810701	chrX:63321797	FAM123B:miR-34b	FAM123B:miR-449b
rs20385	chrX:96743056	DIAPH2:miR-410	DIAPH2:miR-154
rs1064553	chrX:102817323	MORF4L2:miR-29	MORF4L2:miR-29a
rs1064553	chrX:102817323	MORF4L2:miR-29	MORF4L2:miR-29b
rs1064553	chrX:102817323	MORF4L2:miR-29	MORF4L2:miR-29c
rs1064553	chrX:102817323	MORF4L2:miR-29	MORF4L2:miR-767-5p
rs1804954	chrX:117809964	IL13RA1:miR-22	IL13RA1:miR-558
rs1804954	chrX:117809964	IL13RA1:miR-22	IL13RA1:miR-626
rs25722	chrX:146839569	FMR1:miR-182	FMR1:miR-182
rs25722	chrX:146839569	FMR1:miR-96	FMR1:miR-182
rs2072126	chrY:13541140	DDX3Y:miR-15/16/195/424/497	DDX3Y:miR-424
rs2072126	chrY:13541140	DDX3Y:miR-503	DDX3Y:miR-424

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Supplemental Table 6: Coding SNPs with amino acid changes in the miRNA-processing genes

Supplemental Table 6: Coding SNPs with amino acid changes in the miRNA-processing genes

SNP	allele	Het <sup>a</sup>	se(Het) <sup>a</sup>	chr	position	SNP information (gene, entrez id, class, amino acid changes)
rs12746607	C/G	N.A.	N.A.	1	36126617	EIF2C1,26523,missense,P10A
rs17855789	A/G	0.00	0.00	1	36132299	EIF2C1,26523,missense,N242D
rs34232554	-/C	N.A.	N.A.	1	36132505	EIF2C1,26523,frameshift,-263L
rs12739932	C/T	N.A.	N.A.	1	36145149	EIF2C1,26523,missense,T475I
rs12735796	A/T	N.A.	N.A.	1	36145206	EIF2C1,26523,missense,L494Q
rs35257283	-/C	N.A.	N.A.	1	36152428	EIF2C1,26523,frameshift,-,600
rs12564106	C/T	0.00	0.00	1	36153711	EIF2C1,26523,missense,L670P
rs57392277	C/G	N.A.	N.A.	1	37778702	SNIP1,79753,missense,P190R
rs41267307	C/T	N.A.	N.A.	1	37778939	SNIP1,79753,missense,H111R
rs17857029	A/G	N.A.	N.A.	1	112107095	DDX20,11218,missense,K419E
rs41310098	A/G	N.A.	N.A.	1	112110245	DDX20,11218,missense,S559N
rs6660448	A/C	0.03	0.11	1	112110344	DDX20,11218,missense,D592A
rs197412	C/T	0.50	0.02	1	112110476	DDX20,11218,missense,T636I
rs197414	A/C	0.30	0.24	1	112110646	DDX20,11218,missense,S693R
rs35755074	A/G	0.03	0.11	1	112110707	DDX20,11218,missense,G713E
rs17852892	A/G	N.A.	N.A.	1	112110815	DDX20,11218,missense,G749E
rs85276	C/T	0.38	0.26	1	112110854	DDX20,11218,missense,T762I
rs35745393	-/C	N.A.	N.A.	5	31442800	RNASEN,29102,frameshift,Q1288-/Q1251-
rs1559205	C/T	0.00	0.00	5	31500113	RNASEN,29102,missense,F854S/F817S
rs12517177	C/G	0.00	0.00	5	31503900	RNASEN,29102,missense,V757L/V720L
rs55656741	A/G	N.A.	N.A.	5	31551414	RNASEN,29102,missense,L321S/intron
rs35342496	G/T	0.02	0.09	5	31562598	RNASEN,29102,missense,T67P
rs11544382	A/G	N.A.	N.A.	6	43600320	XPO5,57510,missense,T1115M;
rs35794454	A/G	0.03	0.11	6	43609642	POLR1C,9533,intron
rs12173786	C/G	0.00	0.00	6	43625234	XPO5,57510,missense,V808A
rs11544379	G/T	0.00	0.00	6	43627087	XPO5,57510,missense,N610K
rs34324334	C/T	0.09	0.19	6	43642996	XPO5,57510,missense,F552V
rs1137903	C/T	N.A.	N.A.	6	43642996	XPO5,57510,missense,N241S
rs1137903	C/T	N.A.	N.A.	8	141618729	EIF2C2,27161,missense,Y681H
rs34807748	-/G	N.A.	N.A.	8	141626823	EIF2C2,27161,frameshift,H558-
rs35649761	-/G	N.A.	N.A.	8	141626826	EIF2C2,27161,frameshift,P557-
rs35369360	C/G	N.A.	N.A.	8	141626890	EIF2C2,27161,missense,A536G
rs3203547	A/C	0.00	0.00	12	52184816	TARBP2,6895,missense,P167H/P188H
rs1126500	C/T	0.00	0.00	12	52185710	TARBP2,6895,missense,F230S/F251S;
rs1496856	C/T	0.00	0.00	12	129396982	NPFF,8620,near-gene-3
rs35540071	C/T	0.03	0.11	12	129405469	PIWIL1,9271,missense,K144R
rs17856812	G/T	N.A.	N.A.	12	129407484	PIWIL1,9271,missense,C419R
rs1106042	A/G	0.15	0.23	12	129407591	PIWIL1,9271,missense,N491K
rs17852568	C/T	N.A.	N.A.	12	129411736	PIWIL1,9271,missense,K527R
rs11546494	C/T	N.A.	N.A.	12	129411736	PIWIL1,9271,missense,P575L
rs11546488	G/T	0.00	0.05	12	129923593	RAN,5901,missense,L72F
rs11546493	A/G	0.00	0.00	12	129925080	RAN,5901,missense,I95R
rs34678453	-/G	N.A.	N.A.	12	129925108	RAN,5901,nonsense,*104W
rs35252236	-/A	N.A.	N.A.	14	94635945	DICER1,23405,frameshift,P1377-
rs34141151	-/A	N.A.	N.A.	14	94639518	DICER1,23405,frameshift,-1323L
rs4566088	C/G	0.00	0.00	14	94639994	DICER1,23405,frameshift,L1164-
rs12432511	A/T	0.00	0.00	14	94653725	DICER1,23405,missense,T499R
rs4788428	A/C	N.A.	N.A.	14	94662802	DICER1,23405,missense,*257C
				16	24695890	TNRC6A,27327,missense,P100Q

**Supplemental Table 6: Coding SNPs with amino acid changes in the miRNA-processing genes**

SNP	allele	Het <sup>a</sup>	se(Het) <sup>a</sup>	chr	position	SNP information (gene, entrez id, class, amino acid changes)
rs4788429	A/C	N.A.	N.A.	16	24695896	TNRC6A,27327,missense,P102Q
rs11644562	A/C	N.A.	N.A.	16	24695935	TNRC6A,27327,missense,Q115P
rs34861477	-/C	N.A.	N.A.	16	24695975	TNRC6A,27327,frameshift,P128-
rs11639856	A/T	0.22	0.25	16	24696146	TNRC6A,27327,missense,K185N
rs11863919	A/G	0.00	0.00	16	24708943	TNRC6A,27327,missense,I493M
rs35333980	-/T	N.A.	N.A.	16	24709153	TNRC6A,27327,frameshift,-,563
rs34192933	-/G	N.A.	N.A.	16	24709224	TNRC6A,27327,frameshift,G587-
rs6497759	A/G	0.21	0.25	16	24709238	TNRC6A,27327,missense,T592A
rs3803716	A/G	0.22	0.25	16	24709826	TNRC6A,27327,missense,S788P
rs35474263	G/T	0.06	0.17	16	24709848	TNRC6A,27327,missense,Y795S
rs34732932	A/T	N.A.	N.A.	16	24710080	TNRC6A,27327,missense,N872K
rs2112782	C/T	0.00	0.05	16	24723106	TNRC6A,27327,missense,K1268E
rs35122306	A/G	0.03	0.11	16	24737439	TNRC6A,27327,missense,M1666T
rs7813	C/T	0.45	0.15	17	594936	GEMIN4,50628,missense,C1033R
rs17851764	A/C	N.A.	N.A.	17	595015	GEMIN4,50628,missense,F1006L
rs2740349	A/G	0.29	0.25	17	595248	GEMIN4,50628,missense,N929D
rs34610323	A/G	0.11	0.21	17	595296	GEMIN4,50628,missense,I913V
rs34936176	G/T	0.49	0.06	17	595563	GEMIN4,50628,missense,F824V
rs34549090	-/T	N.A.	N.A.	17	595578	GEMIN4,50628,frameshift,N819-
rs34452716	C/G	0.49	0.06	17	595687	GEMIN4,50628,missense,L782F
rs8078660	A/G	0.06	0.17	17	595787	GEMIN4,50628,missense,L749P
rs1062923	C/T	0.10	0.20	17	595817	GEMIN4,50628,missense,T739I
rs34519093	C/T	0.03	0.11	17	595914	GEMIN4,50628,missense,C707R
rs3744741	C/T	0.35	0.23	17	595982	GEMIN4,50628,missense,Q684R
rs4968104	A/T	0.30	0.25	17	596255	GEMIN4,50628,missense,V593E
rs910925	C/G	0.47	0.12	17	596297	GEMIN4,50628,missense,G579A
rs35172207	A/T	N.A.	N.A.	17	596448	GEMIN4,50628,missense,S529T
rs34616851	A/G	0.05	0.16	17	596529	GEMIN4,50628,missense,V502I
rs2740348	C/G	0.21	0.25	17	596685	GEMIN4,50628,missense,E450Q
rs34604548	C/T	0.02	0.09	17	597489	GEMIN4,50628,missense,L182F
rs2106143	G/T	0.00	0.00	22	18453499	DGCR8,54487,nonsense,*5E
rs5748529	C/T	0.00	0.00	22	18453674	DGCR8,54487,missense,V63A
rs35987994	C/T	0.49	0.07	22	18454006	DGCR8,54487,missense,V174I
rs35569747	C/T	0.03	0.11	22	18462293	DGCR8,54487,missense,R588K
rs9606253	G/T	0.00	0.00	22	18476427	DGCR8,54487,missense,N713K
rs11546015	A/G	0.00	0.05	22	18476461	DGCR8,54487,missense,D725N

a: N.A. stands for not available; Het stands for heterozygosity; se(Het) stands for standard error of heterozygosity estimation