

**Table S1** These binding of rs12607853 to miRNAs

miRNA	SNP	Effect	Allele	Score	Energy	Binding
hsa-miR-141-3p	rs12607853	break	C	158	-14.19	Query: 3' gguAGAAUGGUCU—GUCACAu 5'  :    :          Ref: 5' agcTTTTATTGAGTCCAGTGTt 3'
			T			
hsa-miR-200a-3p	rs12607853	break	C	150	-10.20	Query: 3' uguAGCAAUGGUCU—GUCACAu 5'  :    :          Ref: 5' agcTTTTATTGAGTCCAGTGTt 3'
			T			
hsa-miR-3654	rs12607853	break	C	144	-12.34	Query: 3' aaGGAGUCGA—ACAGGUCAg 5' :: : :          Ref: 5' ctTTTTATTGAGTCCAGTg 3'
			T			
hsa-miR-378a-3p	rs12607853	break	C	157	-20.17	Query: 3' ggAAGACUGAGGUUCAGGUca 5'   :     ::        Ref: 5' gcTTTTTA—TTGAGTCCAGt 3'
			T			
hsa-miR-378b	rs12607853	break	C	149	-15.22	Query: 3' aaGACGGAGGUUCAGGUca 5' :  :  ::        Ref: 5' ctTTTTATTGAGTCCAGt 3'
			T			
hsa-miR-378c	rs12607853	break	C	162	-20.20	Query: 3' ggugaGAAGACUGAGGUUCAGGUca 5'    :     ::        Ref: 5' aaaagCTTTTA—TTGAGTCCAGt 3'
			T			
hsa-miR-378d	rs12607853	break	C	152	-15.76	Query: 3' aaAGACUGAGGUUCAGGUca 5'  :     ::        Ref: 5' ctTTTTA—TTGAGTCCAGt 3'
			T			
hsa-miR-378e	rs12607853	break	C	148	-15.30	Query: 3' aggacugAGGUUCAGGUca 5'  ::        Ref: 5' ctttttaTTTGAGTCCAGt 3'
			T			
hsa-miR-378f	rs12607853	break	C	150	-19.97	Query: 3' gaAGACCGAGGUUCAGGUca 5'  :     ::        Ref: 5' gcTTTTATTGAGTCCAGt 3'
			T			
hsa-miR-378h	rs12607853	break	C	148	-15.88	Query: 3' gguAGACUGUGGUUCAGGUca 5'  :     ::        Ref: 5' gctTTTTAT—TTGAGTCCAGt 3'
			T			
hsa-miR-378i	rs12607853	break	C	153	-20.05	Query: 3' ggAAGACUGAGGAUCAGGUca 5'   :     ::        Ref: 5' gcTTTTTA—TTGAGTCCAGt 3'
			T			
hsa-miR-422a	rs12607853	break	C	162	-24.75	Query: 3' cgGAAGACUGGGAUCAGGUca 5'    :     ::        Ref: 5' agCTTTTA—TTGAGTCCAGt 3'

			T					
hsa-miR-4704-5p	rs12607853	create	C					
			T	152	-15.00	Query:	3' uuAGUGAGUGUACGGAUCACAg	5'
							: : :     :	
			Ref:			5'	ttTTATTtG-A-GTCTAGTGTt	3'
hsa-miR-4775	rs12607853	decrease	C	143	-6.64	Query:	3' ucaCUGGCUUUGUUUUUAAUu	5'
							: :	
			Ref:			5'	tgaGTCCAGTGTTTAAATTAa	3'
			T	142	-6.81	Query:	3' ucACU-GGCUU-UGUUUUUAAUu	5'
							:    : :	
			Ref:			5'	ttTGAGTCTAGTGTTTAAATTAa	3'
hsa-miR-590-3p	rs12607853	enhance	C	145	-5.65	Query:	3' ugaucgaaUAUGUAUUUAAUu	5'
							: :	
			Ref:			5'	tgagtccaGTGTTTAAAAATTa	3'
			T	153	-8.78	Query:	3' ugaUC-GAAUAUGUAUUUAAUu	5'
							:   :	
			Ref:			5'	ttgAGTCTAGTGTTTAAAAATTa	3'