

MicroRNA Human 13.0

Probe Name	Probe Sequence	Length	Replicates	Annotations
hsa tRNA-Arg(Chr:6)_45_65 PosCtrl as	CCAGGAGTCGAACCTAGAATC	21	2	Positive Control
hsa tRNA-Arg(Chr:6)_11_30 PosCtrl as	CAGACGCGTTATCCATTGCG	20	2	Positive Control
hsa tRNA-Asp(Chr:1)_13_33 PosCtrl as	AGGCGGGGATACTCACCCTA	21	2	Positive Control
hsa tRNA-Gly(Chr:17)_12_33 PosCtrl as	CAGGCGAGAATTCTACCACTGA	22	2	Positive Control
hsa tRNA-Gly(Chr:17)_51_70 PosCtrl as	GCATTGGCCGGGAATCGAAC	20	2	Positive Control
hsa tRNA-Val(Chr:1)_13_33 PosCtrl as	AGGCGAACGTGATAACCACTA	21	2	Positive Control
hsa tRNA-Val(Chr:1)_53_72 PosCtrl as	GTTTCCGCCCGTTTTCGAAC	20	2	Positive Control
hsa tRNA-Met(Chr:6)_31_51 PosCtrl as	CATCGACCTCTGGGTTATGGG	21	2	Positive Control
hsa tRNA-Met(Chr:6)_42_62 PosCtrl as	TGGTTTCGATCCATCGACCTC	21	2	Positive Control
hsa tRNA-Pro(Chr:14)_2_22 PosCtrl as	CATACCCTAGACCAACGAGC	21	2	Positive Control
hsa tRNA-Pro(Chr:14)_20_40 PosCtrl as	CGCACCCCTAAGCGAGAATCAT	21	2	Positive Control
hsa tRNA-Phe(Chr:12)_24_46 PosCtrl as	CCTTTAGATCTTCAGTCTAACGC	23	2	Positive Control
hsa tRNA-Phe(Chr:12)_12_31 PosCtrl as	TCTAACGCTCTCCCAACTGA	20	2	Positive Control
hsa tRNA-Trp(Chr:17)_42_62 PosCtrl as	GTGACTTGAACACGCAACCTT	21	2	Positive Control
hsa tRNA-Trp(Chr:17)_28_48 PosCtrl as	CAACCTTCTGATCTGGAGTCA	21	2	Positive Control
hsa U6(M14486)_81_101 PosCtrl as	ATGGAACGCTTCACGAATTTG	21	2	Positive Control
hsa U6(M14486)_5_25 PosCtrl as	GTATATGTGCTGCCGAAGCGA	21	2	Positive Control
hsa ACTB(NM_001101)_1233_1255 DegradCtrl as	GCGCAAGTTAGTTTTGTCAAGA	23	2	Degradation Control
hsa ACTB(NM_001101)_1479_1499 DegradCtrl as	TTTTAGGATGGCAAGGGACTT	21	2	Degradation Control
hsa HSPD1(NM_002156)_2274_2296 DegradCtrl as	ACAAAGTTGTACATAATTGGA	23	2	Degradation Control
hsa HSPD1(NM_002156)_1849_1872 DegradCtrl as	ACTAGTCTAGGAGTTAGAACATGC	24	2	Degradation Control
hsa PGK1(NM_000291)_1825_1847 DegradCtrl as	CAGCAATATAGACATCTGATCCG	23	2	Degradation Control
hsa PGK1(NM_000291)_1783_1805 DegradCtrl as	CACCCTTCCTAACAAAGTATGAC	23	2	Degradation Control
hsa UBD(NM_006398)_327_347 DegradCtrl as	GGTCTTAGACCGGACATGTTT	21	2	Degradation Control
hsa UBD(NM_006398)_572_593 DegradCtrl as	CGTCTTAGTCTCGATCATTGCT	22	2	Degradation Control
neg Bio B Spike_394_418 NegCtrl as	GCGCCTGAGATTCACTCAACGTGCC	25	2	NegativeControl
neg Bio C Spike_113_137 NegCtrl as	ACGTGGGTGTATTTACGCTGTGGAA	25	2	NegativeControl
neg Lambda Spike_12_609_633 NegCtrl as	CTTCCGGCAATACTCGTAAACCATA	25	2	NegativeControl
neg Lambda Spike_5_753_777 NegCtrl as	GAACAGGTTATCGAAATCAGCCACA	25	2	NegativeControl
neg Lambda Spike_6_497_521 NegCtrl as	TACAACCGGAATGTTGACCTTGCTT	25	2	NegativeControl
neg Lambda Spike_8_329_353 NegCtrl as	GTCACCTTTATCTGCCGCCACTCAT	25	2	NegativeControl
neg Lambda Spike_9_1167_1191 NegCtrl as	GATGTTTGCAGACGTAATGGTGCGG	25	2	NegativeControl
hsa let-7a nat as	AACTATAACAACCTACTACCTCA	22	2	
hsa let-7a 2mut as	AACTATA[C-g]AAC[C-g]TACTACCTCA	22	1	
ppa miR-1 nat as	TACATACTTCTTTACATTCCA	21	2	

ppa miR-1 2mut as	TACATA[C-g]TTCTTTAC[A-t]TTCCA	21	1
hsa let-7b nat as	AACCACACAACCTACTACCTCA	22	2
hsa let-7b 2mut as	AACCA[C-g]ACAACCTACTA[C-g]CTCA	22	1
hsa let-7c nat as	AACCATACAACCTACTACCTCA	22	2
hsa let-7c 2mut as	AACC[A-t]TACAACCTACTA[C-g]CTCA	22	1
hsa let-7d nat as	AACTATGCAACCTACTACCTCT	22	2
hsa let-7d 2mut as	AACTATGCA[A-t]CCTACTAC[C-g]TCT	22	1
hsa let-7e nat as	AACTATACAACCTCCTACCTCA	22	2
hsa let-7e 2mut as	AACTATACAA[C-g]CTCCTACC[T-a]CA	22	1
hsa let-7f nat as	AACTATACAATCTACTACCTCA	22	2
hsa let-7f 2mut as	AACTATA[C-g]AAT[C-g]TACTACCTCA	22	1
hsa miR-15a nat as	CACAAACCATTATGTGCTGCTA	22	2
hsa miR-15a 2mut as	CACAAACC[A-t]TTATGTG[C-g]TGCTA	22	1
hsa miR-16 nat as	CGCCAATATTTACGTGCTGCTA	22	2
hsa miR-16 2mut as	CG[C-g]CAATA[T-a]TTACGTGCTGCTA	22	1
hsa miR-17 nat as	CTACCTGCACTGTAAGCACTTTG	23	2
hsa miR-17 2mut as	CTA[C-g]CTGCAC[T-a]GTAAGCACTTTG	23	1
hsa miR-18a nat as	CTATCTGCACTAGATGCACCTTA	23	2
hsa miR-18a 2mut as	CT[A-t]TCTGCACTAGATGCA[C-g]CTTA	23	1
hsa miR-19a nat as	TCAGTTTTGCATAGATTTGCACA	23	2
hsa miR-19a 2mut as	TCAGTTTTG[C-g]ATA[G-c]ATTTGCACA	23	1
hsa miR-19b nat as	TCAGTTTTGCATGGATTTGCACA	23	2
hsa miR-19b 2mut as	TCAGTTTTG[C-g]ATGG[A-t]TTTGCACA	23	1
hsa miR-20a nat as	CTACCTGCACTATAAGCACTTTA	23	2
hsa miR-20a 2mut as	CTA[C-g]CTGCACTATAAG[C-g]ACTTTA	23	1
hsa miR-21 nat as	TCAACATCAGTCTGATAAGCTA	22	2
hsa miR-21 2mut as	TCAACATCAG[T-a]CTGATAAG[C-g]TA	22	1
hsa miR-22 nat as	ACAGTTCTTCAACTGGCAGCTT	22	2
hsa miR-22 2mut as	ACAGTTC[T-a]TCAACTGG[C-g]AGCTT	22	1
hsa miR-23a nat as	GGAAATCCCTGGCAATGTGAT	21	2
hsa miR-23a 2mut as	GGA[A-t]ATC[C-g]CTGGCAATGTGAT	21	1
hsa miR-24 nat as	CTGTTCTGCTGAACTGAGCCA	22	2
hsa miR-24 2mut as	CTGTTCTG[C-g]TGAAGT[G-c]AGCCA	22	1
hsa miR-25 nat as	TCAGACCGAGACAAGTGCAATG	22	2
hsa miR-25 2mut as	TCAGACC[G-c]AGA[C-g]AAGTGCAATG	22	1
hsa miR-26a nat as	AGCCTATCCTGGATTACTTGAA	22	2
hsa miR-26a 2mut as	AG[C-g]CTATCCTGGATTA[C-g]TTGAA	22	1

hsa miR-26b nat as	ACCTATCCTGAATTACTTGAA	21	2
hsa miR-26b 2mut as	ACCTAT[C-g]CTGAATTACTT[G-c]AA	21	1
hsa miR-27a nat as	GCGGAACTTAGCCACTGTGAA	21	2
hsa miR-27a 2mut as	GCGGAA[C-g]TTAG[C-g]CACTGTGAA	21	1
hsa miR-28-5p nat as	CTCAATAGACTGTGAGCTCCTT	22	2
hsa miR-28-5p 2mut as	CTCAAT[A-t]GACTGTGAG[C-g]TCCTT	22	1
hsa miR-28-3p nat as	TCCAGGAGCTCACAATCTAGTG	22	1
hsa miR-28-3p 2mut as	TCCAGGAGCTC[A-t]CAAT[C-g]TAGTG	22	1
hsa miR-29a nat as	TAACCGATTTTCAGATGGTGCTA	22	2
hsa miR-29a 2mut as	TAAC[C-g]GATTTTCAGA[T-a]GGTGCTA	22	1
hsa miR-30a nat as	CTTCCAGTCGAGGATGTTTACA	22	2
hsa miR-30a 2mut as	CTTC[C-g]AGTCG[A-t]GGATGTTTACA	22	1
hsa miR-31 nat as	AGCTATGCCAGCATCTTGCCT	21	2
hsa miR-31 2mut as	AG[C-g]TATGC[C-g]AGCATCTTGCCT	21	1
hsa miR-32 nat as	TGCAACTTAGTAATGTGCAATA	22	2
hsa miR-32 2mut as	TGCAA[C-g]TTAGTA[A-t]TGTGCAATA	22	1
hsa miR-33a nat as	TGCAATGCAACTACAATGCAC	21	2
hsa miR-33a 2mut as	TG[C-g]AATGCAACTACA[A-t]TGCAC	21	1
hsa miR-92a nat as	ACAGGCCGGGACAAGTGAATA	22	2
hsa miR-92a 2mut as	ACAGG[C-g]CGGG[A-t]CAAGTGAATA	22	1
hsa miR-93 nat as	CTACCTGCACGAACAGCACTTTG	23	2
hsa miR-93 2mut as	CTACCTG[C-g]ACGAAC[A-t]GCACCTTTG	23	1
hsa miR-95 nat as	TGCTCAATAAATACCCGTTGAA	22	2
hsa miR-95 2mut as	TGCTCAATAAATA[C-g]CCGT[T-a]GAA	22	1
hsa miR-96 nat as	AGCAAAAATGTGCTAGTGCCAAA	23	2
hsa miR-96 2mut as	AGCAAAAAT[G-c]TGCTAGTG[C-g]CAAA	23	1
hsa miR-98 nat as	AACAATACAACCTTACTACCTCA	22	2
hsa miR-98 2mut as	AACAATACAA[C-g]TTA[C-g]TACCTCA	22	1
hsa miR-99a nat as	CACAAGATCGGATCTACGGGTT	22	2
hsa miR-99a 2mut as	CACAAGAT[C-g]GGATCT[A-t]CGGGTT	22	1
hsa miR-100 nat as	CACAAGTTCGGATCTACGGGTT	22	2
hsa miR-100 2mut as	CACAAGTT[C-g]GGAT[C-g]TACGGGTT	22	1
hsa miR-101 nat as	TTCAGTTATCACAGTACTGTA	21	2
hsa miR-101 2mut as	TT[C-g]AGTTATCACAGTACT[G-c]TA	21	1
hsa miR-29b nat as	AACACTGATTTCAAATGGTGCTA	23	2
hsa miR-29b 2mut as	AACAC[T-a]GATTTCAAATGGTG[C-g]TA	23	1
hsa miR-103 nat as	TCATAGCCCTGTACAATGCTGCT	23	2

hsa miR-103 2mut as	TCATAGCC[C-g]TGTACAATGCT[G-c]CT	23	1
hsa miR-105 nat as	ACCACAGGAGTCTGAGCATTTGA	23	2
hsa miR-105 2mut as	AC[C-g]ACAGGAGTCTGAGCA[T-a]TTGA	23	1
hsa miR-106a nat as	CTACCTGCACTGTAAGCACTTTT	23	2
hsa miR-106a 2mut as	CTACC[T-a]GCACTGTAAGCA[C-g]TTTT	23	1
hsa miR-107 nat as	TGATAGCCCTGTACAATGCTGCT	23	2
hsa miR-107 2mut as	TGATAG[C-g]CCTGTACAATG[C-g]TGCT	23	1
hsa miR-7 nat as	ACAACAAAATCACTAGTCTTCCA	23	2
hsa miR-7 2mut as	ACAA[C-g]AAAATCACTAGTC[T-a]TCCA	23	1
hsa miR-9 nat as	TCATACAGCTAGATAACCAAAGA	23	2
hsa miR-9 2mut as	TCATA[C-g]AGCTAGA[T-a]AACCAAAGA	23	1
hsa let-7g nat as	AACTGTACAACTACTACCTCA	22	2
hsa let-7g 2mut as	AACTGTACA[A-t]ACTACTA[C-g]CTCA	22	1
hsa let-7i nat as	AACAGCACAACTACTACCTCA	22	2
hsa let-7i 2mut as	AACAGCACA[A-t]ACTACTAC[C-g]TCA	22	1
hsa miR-1 nat as	ATACATACTTCTTTACATTCCA	22	2
hsa miR-1 2mut as	ATACATACTTCT[T-a]TACATT[C-g]CA	22	1
hsa miR-15b nat as	TGTA AACCATGATGTGCTGCTA	22	2
hsa miR-15b 2mut as	TGTA AACCATG[A-t]TGTG[C-g]TGCTA	22	1
hsa miR-23b nat as	GGTAATCCCTGGCAATGTGAT	21	2
hsa miR-23b 2mut as	GGTAATCC[C-g]TGGCAAT[G-c]TGAT	21	1
hsa miR-27b nat as	GCAGAACTTAGCCACTGTGAA	21	2
hsa miR-27b 2mut as	GCAGAACTTAG[C-g]CACTGT[G-c]AA	21	1
hsa miR-30b nat as	AGCTGAGTGTAGGATGTTTACA	22	2
hsa miR-30b 2mut as	AG[C-g]TGAGTGTAGGA[T-a]GTTTACA	22	1
hsa miR-99b nat as	CGCAAGGTCGGTCTACGGGTG	22	2
hsa miR-99b 2mut as	CGCAAGGT[C-g]GGTTCT[A-t]CGGGTG	22	1
hsa miR-124 nat as	GGCATTACCCGCGTGCCTTA	20	2
hsa miR-124 2mut as	GGCATT[C-g]ACCGC[G-c]TGCCTTA	20	1
hsa miR-125a-5p nat as	TCACAGGTTAAAGGGTCTCAGGGA	24	2
hsa miR-125a-5p 2mut as	TCACAGGTTAA[A-t]GGGTCT[C-g]AGGGA	24	1
hsa miR-125a-3p nat as	GGCTCCCAAGAACCTCACCTGT	22	1
hsa miR-125a-3p 2mut as	GGCTCC[C-g]AAGAACCT[C-g]ACCTGT	22	1
hsa miR-125b nat as	TCACAAGTTAGGGTCTCAGGGA	22	2
hsa miR-125b 2mut as	TCA[C-g]AAGTTAGGGTC[T-a]CAGGGA	22	1
hsa miR-126 nat as	CGCATTACTACCGGTACGA	22	2
hsa miR-126 2mut as	CGCATTATTA[C-g]TCACGG[T-a]ACGA	22	1

hsa miR-127-3p nat as	AGCCAAGCTCAGACGGATCCGA	22	2
hsa miR-127-3p 2mut as	AG[C-g]CAAG[C-g]TCAGACGGATCCGA	22	1
hsa miR-128 nat as	AAAGAGACCGGTTCACTGTGA	21	2
hsa miR-128 2mut as	AAAGAGAC[C-g]GGTTCAC[T-a]GTGA	21	1
hsa miR-130a nat as	ATGCCCTTTTAAACATTGCACTG	22	2
hsa miR-130a 2mut as	ATGCC[C-T-a]TTTAA[C-g]ATTGCACTG	22	1
hsa miR-132 nat as	CGACCATGGCTGTAGACTGTTA	22	2
hsa miR-132 2mut as	CGA[C-g]CATGGCTGTAG[A-t]CTGTTA	22	1
hsa miR-133a nat as	CAGCTGGTTGAAGGGACCAAA	22	2
hsa miR-133a 2mut as	CAGCT[G-c]GTTGAAGGGAC[C-g]AAA	22	1
hsa miR-134 nat as	CCCCTCTGGTCAACCAGTCACA	22	2
hsa miR-134 2mut as	CCC[C-g]TCTGGTCAACCAGT[C-g]ACA	22	1
hsa miR-135a nat as	TCACATAGGAATAAAAAGCCATA	23	2
hsa miR-135a 2mut as	TCACATAGGA[A-t]TAAAAAGC[C-g]ATA	23	1
hsa miR-137 nat as	CTACGCGTATTCTTAAGCAATAA	23	2
hsa miR-137 2mut as	CTACGCGTATT[C-g]TTAAGCA[A-t]TAA	23	1
hsa miR-138 nat as	CGGCCTGATTCACAACACCAGCT	23	2
hsa miR-138 2mut as	CGG[C-g]CTGATT[C-A-t]CAACACCAGCT	23	1
hsa miR-140-5p nat as	CTACCATAGGGTAAAACCACTG	22	2
hsa miR-140-5p 2mut as	CTACC[A-t]TAGGGTAAAAC[C-g]ACTG	22	1
hsa miR-141 nat as	CCATCTTTACCAGACAGTGTTA	22	2
hsa miR-141 2mut as	CCATCTTTA[C-g]CAG[A-t]CAGTGTTA	22	1
hsa miR-142-5p nat as	AGTAGTGCTTTCTACTTTATG	21	2
hsa miR-142-5p 2mut as	AGTAGTG[C-g]TTTCTACTT[T-a]ATG	21	1
hsa miR-142-3p nat as	TCCATAAAGTAGGAAACACTACA	23	2
hsa miR-142-3p 2mut as	TC[C-g]ATAAAGT[A-t]GGAAACACTACA	23	1
hsa miR-144 nat as	AGTACATCATCTATACTGTA	20	2
hsa miR-144 2mut as	AGTA[C-g]ATC[A-t]TCTATACTGTA	20	1
hsa miR-145 nat as	AGGGATTCTGGGAAAACCTGGAC	23	2
hsa miR-145 2mut as	AGGGATTCT[G-c]GGAAAA[C-g]TGGAC	23	1
hsa miR-146a nat as	AACCCATGGAATTCAGTTCTCA	22	2
hsa miR-146a 2mut as	AACC[C-g]ATGGAATTC[A-t]GTTCTCA	22	1
hsa miR-149 nat as	GGGAGTGAAGACACGGAGCCAGA	23	2
hsa miR-149 2mut as	GGGAGT[G-c]AAGA[C-g]ACGGAGCCAGA	23	1
hsa miR-150 nat as	CACTGGTACAAGGGTTGGGAGA	22	2
hsa miR-150 2mut as	CA[C-g]TGGTACAAGGGT[T-a]GGGAGA	22	1
hsa miR-151-5p nat as	ACTAGACTGTGAGCTCCTCGA	21	1

hsa miR-151-5p 2mut as	ACTAGACT[G-c]TGAGCTC[C-g]TCGA	21	1
hsa miR-152 nat as	CCAAGTTCTGTCATGCACTGA	21	2
hsa miR-152 2mut as	CC[A-t]AGTT[C-g]TGTCATGCACTGA	21	1
hsa miR-153 nat as	GATCACTTTTGTGACTATGCAA	22	2
hsa miR-153 2mut as	GATCA[C-g]TTTT[G-c]TGA CTATGCAA	22	1
hsa miR-154 nat as	CGAAGGCAACACGGATAACCTA	22	2
hsa miR-154 2mut as	CGAAGG[C-g]AACACGGATAA[C-g]CTA	22	1
hsa miR-10b nat as	CACAAATTCGGTTCTACAGGGTA	23	2
hsa miR-10b 2mut as	CACAAATT[C-g]GGTTCTA[C-g]AGGGTA	23	1
hsa miR-129-5p nat as	GCAAGCCCAGACCCGAAAAAG	21	2
hsa miR-129-5p 2mut as	GC[A-t]AGCCCAGA[C-g]CGAAAAAG	21	1
hsa miR-181a nat as	ACTCACCGACAGCGTTGAATGTT	23	2
hsa miR-181a 2mut as	ACTCA[C-g]CGACAGCGT[T-a]GAATGTT	23	1
hsa miR-183 nat as	AGTGAATTCTACCAGTGCCATA	22	2
hsa miR-183 2mut as	AGTGAATTCTAC[C-g]AGTGCC[A-t]TA	22	1
hsa miR-184 nat as	ACCCTTATCAGTTCTCCGTCCA	22	2
hsa miR-184 2mut as	ACC[C-g]TTATCAGTTCTCCG[T-a]CCA	22	1
hsa miR-185 nat as	TCAGGA ACTGCCTTTCTCTCCA	22	2
hsa miR-185 2mut as	TCAGG[A-t]ACTGCCTTTCT[C-g]TCCA	22	1
hsa miR-186 nat as	AGCCCAAAGGAGAATTCTTTG	22	2
hsa miR-186 2mut as	AGCC[C-g]AAAAGGAG[A-t]ATTCTTTG	22	1
hsa miR-187 nat as	CCGGCTGCAACACAAGACACGA	22	2
hsa miR-187 2mut as	CCGGCTGCAA[C-g]ACA[A-t]GACACGA	22	1
hsa miR-188-5p nat as	CCCTCCACCATGCAAGGGATG	21	2
hsa miR-188-5p 2mut as	CCCTC[C-g]ACC[A-t]TGCAAGGGATG	21	1
hsa miR-188-3p nat as	TGCAAACCTGCATGTGGGAG	21	1
hsa miR-188-3p 2mut as	TGCAA[C-g]CCTGCATGT[G-c]GGAG	21	1
hsa miR-190 nat as	ACCTAATATATCAAACATATCA	22	2
hsa miR-190 2mut as	ACCTAATATATCAA[C-g]ATA[T-a]CA	22	1
hsa miR-191 nat as	CAGCTGCTTTTGGGATTCCGTTG	23	2
hsa miR-191 2mut as	CAGCTGCTTT[T-a]GGGATT[C-g]CGTTG	23	1
hsa miR-192 nat as	GGCTGTCAATTCATAGGTCAG	21	2
hsa miR-192 2mut as	GG[C-g]TGTC AATTCATAGG[T-a]CAG	21	1
hsa miR-193a-3p nat as	ACTGGGACTTTGTAGGCCAGTT	22	2
hsa miR-193a-3p 2mut as	ACT[G-c]GGACTTTGTAGGC[C-g]AGTT	22	1
hsa miR-194 nat as	TCCACATGGAGTTGCTGTTACA	22	2
hsa miR-194 2mut as	TCCACATGGAGTTG[C-g]TGT[T-a]ACA	22	1

hsa miR-195 nat as	GCCAATATTTCTGTGCTGCTA	21	2
hsa miR-195 2mut as	GCCA[A-t]TATTT[C-g]TGTGCTGCTA	21	1
hsa miR-196a nat as	CCCAACAACATGAAACTACCTA	22	2
hsa miR-196a 2mut as	CCCAACAACATG[A-t]AACTAC[C-g]TA	22	1
hsa miR-197 nat as	GCTGGGTGGAGAAGGTGGTGAA	22	2
hsa miR-197 2mut as	GCTGGGTGGAGA[A-t]GGTGGT[G-c]AA	22	1
hsa miR-198 nat as	GAACCTATCTCCCCTCTGGACC	22	2
hsa miR-198 2mut as	GA[A-t]CCTATCTCC[C-g]CTCTGGACC	22	1
hsa miR-199a-5p nat as	GAACAGGTAGTCTGAACACTGGG	23	2
hsa miR-199a-5p 2mut as	GAACAGGT[A-t]GTCTGAA[C-g]ACTGGG	23	1
hsa miR-199a-3p nat as	TAACCAATGTGCAGACTACTGT	22	2
hsa miR-199a-3p 2mut as	TAA[C-g]CAATGTGCAGACTA[C-g]TGT	22	1
hsa miR-200b nat as	TCATCATTACCAGGCAGTATTA	22	2
hsa miR-200b 2mut as	TCATC[A-t]TTAC[C-g]AGGCAGTATTA	22	1
hsa miR-203 nat as	CTAGTGGTCCTAAACATTTCCAC	22	2
hsa miR-203 2mut as	CTAG[T-a]GGTCCTAAACATTT[C-g]AC	22	1
hsa miR-204 nat as	AGGCATAGGATGACAAAGGGAA	22	2
hsa miR-204 2mut as	AGG[C-g]ATAGGATGACAAA[G-c]GGAA	22	1
hsa miR-205 nat as	CAGACTCCGGTGGAAATGAAGGA	22	2
hsa miR-205 2mut as	CAGACTC[C-g]GGTGGAAAT[G-c]AAGGA	22	1
hsa miR-206 nat as	CCACACACTTCCTTACATTCCA	22	2
hsa miR-206 2mut as	CCACACACTTC[C-g]TTAC[A-t]TTCCA	22	1
hsa miR-208a nat as	ACAAGCTTTTTGCTCGTCTTAT	22	2
hsa miR-208a 2mut as	ACAAGCTTTTTG[C-g]TCGT[C-g]TTAT	22	1
hsa miR-148a nat as	ACAAAGTTCTGTAGTGCCTGA	22	2
hsa miR-148a 2mut as	ACAAAGTTC[T-a]GTAGTGCA[C-g]TGA	22	1
hsa miR-30c nat as	GCTGAGAGTGTAGGATGTTTACA	23	2
hsa miR-30c 2mut as	GCTGA[G-c]AGTGTAGGAT[G-c]TTTACA	23	1
hsa miR-30d nat as	CTTCCAGTCGGGGATGTTTACA	22	2
hsa miR-30d 2mut as	CTTCCAGT[C-g]GGGGATGTTT[A-t]CA	22	1
hsa miR-122 nat as	CAAACACCATTGTCACACTCCA	22	2
hsa miR-122 2mut as	CAAACA[C-g]CATTGTACAC[A-t]CTCCA	22	1
hsa miR-143 nat as	GAGCTACAGTGCTTCATCTCA	21	2
hsa miR-143 2mut as	GAGCTAC[A-t]GTGCTT[C-g]ATCTCA	21	1
hsa miR-30e nat as	CTTCCAGTCAAGGATGTTTACA	22	2
hsa miR-30e 2mut as	CTTC[C-g]AGTCAAGGAT[G-c]TTTACA	22	1
hsa miR-139-5p nat as	CTGGAGACACGTGCACTGTAGA	22	2

hsa miR-139-5p 2mut as	CT[G-c]GAGA[C-g]ACGTGCACTGTAGA	22	1
hsa miR-139-3p nat as	ACTCCAACAGGGCCGCGTCTCC	22	1
hsa miR-139-3p 2mut as	AC[T-a]CCAACAGGGCCG[C-g]GTCTCC	22	1
hsa miR-147 nat as	GCAGAAGCATTTCACACAC	20	2
hsa miR-147 2mut as	GCAGA[A-t]GCATTTCCA[C-g]ACAC	20	1
hsa miR-10a nat as	CACAAATTCGGATCTACAGGGTA	23	2
hsa miR-10a 2mut as	CA[C-g]AAA[T-a]TCGGATCTACAGGGTA	23	1
hsa miR-34a nat as	ACAACCAGCTAAGACACTGCCA	22	2
hsa miR-34a 2mut as	ACAAC[C-g]AGCTAAGACA[C-g]TGCCA	22	1
hsa miR-181b nat as	ACCCACCGACAGCAATGAATGTT	23	2
hsa miR-181b 2mut as	AC[C-g]CACCG[A-t]CAGCAATGAATGTT	23	1
hsa miR-181c nat as	ACTCACCGACAGGTTGAATGTT	22	2
hsa miR-181c 2mut as	ACTCA[C-g]CGACAGGTTGAA[T-a]GTT	22	1
hsa miR-182 nat as	AGTGTGAGTTCTACCATTGCCAAA	24	2
hsa miR-182 2mut as	AGTGTGAGTTCTA[C-g]CATTGC[C-g]AAA	24	1
hsa miR-199b-5p nat as	GAACAGATAGTCTAAACTGGG	23	2
hsa miR-199b-5p 2mut as	GAACAGATAG[T-a]CTAAACA[C-g]TGGG	23	1
hsa miR-210 nat as	TCAGCCGCTGTCACACGCACAG	22	2
hsa miR-210 2mut as	TCAGC[C-g]GCTGTAC[A-t]CGCACAG	22	1
hsa miR-211 nat as	AGGCGAAGGATGACAAAGGGAA	22	2
hsa miR-211 2mut as	AGG[C-g]GAAGGATGACAAAGG[G-c]AA	22	1
hsa miR-212 nat as	GGCCGTGACTGGAGACTGTTA	21	2
hsa miR-212 2mut as	GGCCGTGA[C-g]TGGAG[A-t]CTGTTA	21	1
hsa miR-214 nat as	ACTGCCTGTCTGTGCCTGCTGT	22	2
hsa miR-214 2mut as	ACTGCCTG[T-a]CTGTG[C-g]CTGCTGT	22	1
hsa miR-215 nat as	GTCTGTCAATTCATAGGTCAT	21	2
hsa miR-215 2mut as	GTCT[G-c]TCAATTCATAGGT[C-g]AT	21	1
hsa miR-216a nat as	TCACAGTTGCCAGCTGAGATTA	22	2
hsa miR-216a 2mut as	TCACAGTTG[C-g]CAGCTGAG[A-t]TTA	22	1
hsa miR-217 nat as	TCCAATCAGTTCCTGATGCAGTA	23	2
hsa miR-217 2mut as	TC[C-g]AATCAGTTCCTGATGC[A-t]GTA	23	1
hsa miR-218 nat as	ACATGGTTAGATCAAGCACAA	21	2
hsa miR-218 2mut as	ACATGGTT[A-t]GATCAAG[C-g]ACAA	21	1
hsa miR-219-5p nat as	AGAATTGCGTTTGGACAATCA	21	2
hsa miR-219-5p 2mut as	AGAA[T-a]TGCGTTTGGGA[C-g]AATCA	21	1
hsa miR-219-1-3p nat as	CGGGACGTCCAGACTCAACTCT	22	1
hsa miR-219-1-3p 2mut as	CGGGACGTCC[A-t]GACTCAA[C-g]TCT	22	1

hsa miR-220a nat as	AAAGTGTGTCAGATACGGTGTGG	21	2
hsa miR-220a 2mut as	AAAGTGTCA[G-c]ATA[C-g]GGTGTGG	21	1
hsa miR-221 nat as	GAAACCCAGCAGACAATGTAGCT	23	2
hsa miR-221 2mut as	GAAAC[C-g]CAGCAGACAAT[G-c]TAGCT	23	1
hsa miR-222 nat as	ACCCAGTAGCCAGATGTAGCT	21	2
hsa miR-222 2mut as	ACCCAGTAG[C-g]CAGATG[T-a]AGCT	21	1
hsa miR-223 nat as	TGGGGTATTTGACAAACTGACA	22	2
hsa miR-223 2mut as	TGGGGTATTTGA[C-g]AAACTG[A-t]CA	22	1
hsa miR-224 nat as	AACGGAACCCACTAGTGA	21	2
hsa miR-224 2mut as	AACGGA[A-t]CCACTAGTGA[C-g]TTG	21	1
ppa miR-133a nat as	ACAGCTGGTTGAAGGGGACCAA	22	2
ppa miR-133a 2mut as	ACAG[C-g]TGGTTGAAGGGGAC[C-g]AA	22	1
hsa miR-296-5p nat as	ACAGGATTGAGGGGGGCCCT	21	2
hsa miR-296-5p 2mut as	ACAGGATT[G-c]AGGGGGGGC[C-g]CT	21	1
hsa miR-296-3p nat as	GGAGAGCCTCCACCCAACCCTC	22	1
hsa miR-296-3p 2mut as	GGAGAGCCTCC[A-t]CCCAA[C-g]CCTC	22	1
mml miR-299-3p nat as	AAGCGGTTTACCGTCCCACATA	22	1
mml miR-299-3p 2mut as	AAGCGGTTTACCGT[C-g]CAC[A-t]TA	22	1
hsa miR-301a nat as	GCTTTGACAATACTATTGCACTG	23	2
hsa miR-301a 2mut as	GCTTT[G-c]ACAATA[C-g]TATTGCACTG	23	1
hsa miR-302a nat as	TCACCAAAACATGGAAGCACTTA	23	2
hsa miR-302a 2mut as	TCA[C-g]CAAAA[C-g]ATGGAAGCACTTA	23	1
hsa miR-34c-5p nat as	GCAATCAGCTAACTACACTGCCT	23	2
hsa miR-34c-5p 2mut as	GCAATCAGCTAA[C-g]TACACTG[C-g]CT	23	1
hsa miR-106b nat as	ATCTGCACTGTCAGCACTTTA	21	2
hsa miR-106b 2mut as	ATCTGCACTGT[C-g]AGC[A-t]CTTTA	21	1
hsa miR-130b nat as	ATGCCCTTTCATCATTGCACTG	22	2
hsa miR-130b 2mut as	ATG[C-g]CCTTT[C-g]ATCATTGCACTG	22	1
hsa miR-140-3p nat as	CCGTGGTTCTACCCTGTGGTA	21	1
hsa miR-140-3p 2mut as	CCGT[G-c]GTTCTACC[C-g]TGTGGTA	21	1
hsa miR-127-5p nat as	ATCAGAGCCCTCTGAGCTTCAG	22	1
hsa miR-127-5p 2mut as	AT[C-g]AGAGCCCTCT[G-c]AGCTTCAG	22	1
hsa miR-129-3p nat as	ATGCTTTTTGGGGTAAGGGCTT	22	1
hsa miR-129-3p 2mut as	ATG[C-g]TTTTTGGGGT[A-t]AGGGCTT	22	1
hsa miR-136 nat as	TCCATCATCAAAACAAATGGAGT	23	2
hsa miR-136 2mut as	TCCATCA[T-a]CAAAA[C-g]AAATGGAGT	23	1
hsa miR-193a-5p nat as	TCATCTCGCCCGCAAAGACCCA	22	1

hsa miR-193a-5p 2mut as	TCATCTCGCCCGC[A-t]AAGAC[C-g]CA	22	1
hsa miR-320a nat as	TCGCCCTCTCAACCCAGCTTTT	22	2
hsa miR-320a 2mut as	TCGCCCT[C-g]TCAACC[C-g]AGCTTTT	22	1
hsa miR-200a nat as	ACATCGTTACCAGACAGTGTTA	22	2
hsa miR-200a 2mut as	ACATC[G-c]TTA[C-g]CAGACAGTGTTA	22	1
hsa miR-29c nat as	TAACCGATTTCAAATGGTGCTA	22	2
hsa miR-29c 2mut as	TAA[C-g]CGATTTCAAATGGT[G-c]CTA	22	1
hsa miR-323-3p nat as	AGAGGTCGACCGTGTAAATGTG	21	2
hsa miR-323-3p 2mut as	AG[A-t]GGT[C-g]GACCGTGTAAATGTG	21	1
hsa miR-323-5p nat as	GCGAACGCGCCACGGACCACCT	22	1
hsa miR-323-5p 2mut as	GCGAA[C-g]GCGCCACGGA[C-g]CACCT	22	1
hsa miR-324-5p nat as	ACACCAATGCCCTAGGGGATGCG	23	2
hsa miR-324-5p 2mut as	ACACCAA[T-a]GCC[C-g]TAGGGGATGCG	23	1
hsa miR-328 nat as	ACGGAAGGGCAGAGAGGGCCAG	22	2
hsa miR-328 2mut as	ACGGAAGGGCAGA[G-c]AGGG[C-g]CAG	22	1
hsa miR-330-5p nat as	GCCTAAGACACAGGCCAGAGA	22	1
hsa miR-330-5p 2mut as	GCCTAAGAC[A-t]CAGGCC[C-g]AGAGA	22	1
hsa miR-331-3p nat as	TTCTAGGATAGGCCAGGGGC	21	2
hsa miR-331-3p 2mut as	TTCTAGGATAGG[C-g]CCAGG[G-c]GC	21	1
hsa miR-331-5p nat as	GGATCCCTGGGACCATACCTAG	22	1
hsa miR-331-5p 2mut as	GGATCCC[T-a]GGGA[C-g]CATACCTAG	22	1
hsa miR-335 nat as	ACATTTTTCGTTATTGCTCTTGA	23	2
hsa miR-335 2mut as	ACATTT[T-a]TCGTTATTGCT[C-g]TTGA	23	1
hsa miR-148b nat as	ACAAAGTTCTGTGATGCACTGA	22	2
hsa miR-148b 2mut as	ACAA[A-t]GTTCTGTGATGCA[C-g]TGA	22	1
hsa miR-338-5p nat as	CACTCAGCACCAGGATATTGTT	22	1
hsa miR-338-5p 2mut as	CACTCAG[C-g]ACCAG[G-c]ATATTGTT	22	1
hsa miR-338-3p nat as	CAACAAAATCACTGATGCTGGA	22	2
hsa miR-338-3p 2mut as	CAA[C-g]AAAA[T-a]CACTGATGCTGGA	22	1
hsa miR-339-5p nat as	CGTGAGCTCCTGGAGGACAGGGA	23	2
hsa miR-339-5p 2mut as	CGTGAG[C-g]TCCT[G-c]GAGGACAGGGA	23	1
hsa miR-340 nat as	AATCAGTCTCATTGCTTTATAA	22	1
hsa miR-340 2mut as	AATCAGT[C-g]TCATT[G-c]CTTTATAA	22	1
hsa miR-342-3p nat as	ACGGGTGCGATTTCTGTGTGAGA	23	2
hsa miR-342-3p 2mut as	ACGGGT[G-c]CGATTT[C-g]TGTGTGAGA	23	1
hsa miR-135b nat as	TCACATAGGAATGAAAAGCCATA	23	2
hsa miR-135b 2mut as	TCACATA[G-c]GAATGAAAAG[C-g]CATA	23	1

hsa miR-200c nat as	TCCATCATTACCCGGCAGTATTA	23	2
hsa miR-200c 2mut as	TC[C-g]ATCATTAC[C-g]CGGCAGTATTA	23	1
hsa miR-155 nat as	ACCCCTATCACGATTAGCATTA	23	2
hsa miR-155 2mut as	ACCC[C-g]TATCACGATTAG[C-g]ATTA	23	1
mml miR-211 nat as	AGGCAAAGGATGACAAAGGGAA	22	2
mml miR-211 2mut as	AGG[C-g]AAAG[G-c]ATGACAAAGGGAA	22	1
hsa miR-219-2-3p nat as	ACAGATGTCCAGCCACAATTCT	22	1
hsa miR-219-2-3p 2mut as	ACAGA[T-a]GTCCAG[C-g]CACAATTCT	22	1
hsa miR-34b nat as	ATGGCAGTGGAGTTAGTGATTG	22	1
hsa miR-34b 2mut as	ATGG[C-g]AGTGGAGTT[A-t]GTGATTG	22	1
hsa miR-34c-3p nat as	CCTGGCCGTGTGGTTAGTGATT	22	1
hsa miR-34c-3p 2mut as	CCTGG[C-g]CGTGTGGTTAG[T-a]GATT	22	1
hsa miR-299-5p nat as	ATGTATGTGGGACGGTAAACCA	22	1
hsa miR-299-5p 2mut as	ATGTATGT[G-c]GGA[C-g]GGTAAACCA	22	1
hsa miR-299-3p nat as	AAGCGGTTTACCATCCCACATA	22	2
hsa miR-299-3p 2mut as	AAGC[G-c]GTTTA[C-g]CATCCCACATA	22	1
hsa miR-361-5p nat as	GTACCCCTGGAGATTCTGATAA	22	2
hsa miR-361-5p 2mut as	GTA[C-g]CCCTGGAGATTC[T-a]GATAA	22	1
hsa miR-361-3p nat as	AAATCAGAATCACACCTGGGGGA	23	1
hsa miR-361-3p 2mut as	AAAT[C-g]AGAATCAC[A-t]CCTGGGGGA	23	1
hsa miR-362-5p nat as	ACTCACACCTAGGTTCCAAGGATT	24	2
hsa miR-362-5p 2mut as	ACTCACA[C-g]CTA[G-c]GTTCCAAGGATT	24	1
hsa miR-362-3p nat as	TGAATCCTTGAATAGGTGTGTT	22	1
hsa miR-362-3p 2mut as	TGAAT[C-g]CTTGAATAGGTG[T-a]GTT	22	1
hsa miR-363 nat as	TACAGATGGATACCGTGCAATT	22	2
hsa miR-363 2mut as	TACAGATGG[A-t]TAC[C-g]GTGCAATT	22	1
hsa miR-365 nat as	ATAAGGATTTTTAGGGGCATTA	22	2
hsa miR-365 2mut as	ATAAGGATTTTTA[G-c]GGG[C-g]ATTA	22	1
hsa miR-302b nat as	CTACTAAAACATGGAAGCACTTA	23	2
hsa miR-302b 2mut as	CTA[C-g]TAAAAC[A-t]TGGAAGCACTTA	23	1
hsa miR-302c nat as	CCACTGAAACATGGAAGCACTTA	23	2
hsa miR-302c 2mut as	CCA[C-g]TGAAACATGGAAGCAC[T-a]TA	23	1
hsa miR-302d nat as	ACACTCAAACATGGAAGCACTTA	23	2
hsa miR-302d 2mut as	ACACT[C-g]AAACATGGA[A-t]GCACTTA	23	1
hsa miR-367 nat as	TCACCATTGCTAAAGTGCAATT	22	2
hsa miR-367 2mut as	TCAC[C-g]ATTGCT[A-t]AAGTGCAATT	22	1
hsa miR-376c nat as	ACGTGGAATTTCTCTATGTT	21	2

hsa miR-376c 2mut as	ACGTGGAATTTCT[C-g]TAT[G-c]TT	21	1
hsa miR-369-5p nat as	GCGAATATAACACGGTTCGATCT	22	2
hsa miR-369-5p 2mut as	GCGAA[T-a]ATAA[C-g]ACGGTTCGATCT	22	1
hsa miR-369-3p nat as	AAAGATCAACCATGTATTATT	21	2
hsa miR-369-3p 2mut as	AA[A-t]GATCAA[C-g]CATGTATTATT	21	1
hsa miR-370 nat as	ACCAGGTTCCACCCAGCAGGC	22	2
hsa miR-370 2mut as	AC[C-g]AGGTT[C-g]CACCCAGCAGGC	22	1
hsa miR-371-5p nat as	AGTGCCCCACAGTTTGAGT	20	1
hsa miR-371-5p 2mut as	AGTGC[C-g]CCCACAGTT[T-a]GAGT	20	1
hsa miR-371-3p nat as	CACTCAAAGATGGCGCACTT	23	2
hsa miR-371-3p 2mut as	CACT[C-g]AAAAGATGGC[G-c]GCACTT	23	1
hsa miR-372 nat as	ACGCTCAAATGTCGCAGCACTTT	23	2
hsa miR-372 2mut as	ACGC[T-a]CAAATGTCGCAG[C-g]ACTTT	23	1
hsa miR-373 nat as	ACACCCCAAATCGAAGCACTTC	23	2
hsa miR-373 2mut as	ACACCC[C-g]AAAA[T-a]CGAAGCACTTC	23	1
hsa miR-374a nat as	CACTTATCAGTTGTATTATAA	22	2
hsa miR-374a 2mut as	CA[C-g]TTATCAGTT[G-c]TATTATAA	22	1
hsa miR-375 nat as	TCACGCGAGCCGAACGAACAAA	22	2
hsa miR-375 2mut as	TCA[C-g]GCGAGCC[G-c]AACGAACAAA	22	1
hsa miR-376a nat as	ACGTGGATTTTCTCTATGAT	21	2
hsa miR-376a 2mut as	ACGTGGATTTT[C-g]CTCTAT[G-c]AT	21	1
hsa miR-377 nat as	ACAAAAGTTGCCTTTGTGTGAT	22	2
hsa miR-377 2mut as	ACAAAAGTTGC[C-g]TTTGT[G-c]TGAT	22	1
hsa miR-378 nat as	CCTTCTGACTCCAAGTCCAGT	21	2
hsa miR-378 2mut as	CCTTCTGACT[C-g]CAAGTCC[A-t]GT	21	1
hsa miR-379 nat as	CCTACGTTCCATAGTCTACCA	21	2
hsa miR-379 2mut as	CCTACG[T-a]TCCATAGT[C-g]TACCA	21	1
hsa miR-380 nat as	AAGATGTGGACCATATTACATA	22	2
hsa miR-380 2mut as	AAGATGTGGACCA[T-a]ATTA[C-g]ATA	22	1
hsa miR-381 nat as	ACAGAGAGCTTGCCCTTGATA	22	2
hsa miR-381 2mut as	ACAGAGAG[C-g]TTGCCCTTGTA	22	1
hsa miR-382 nat as	CGAATCCACCACGAACAACCTC	22	2
hsa miR-382 2mut as	CGA[A-t]TCCA[C-g]CACGAACAACCTC	22	1
hsa miR-383 nat as	AGCCACAATCACCTTCTGATCT	22	2
hsa miR-383 2mut as	AG[C-g]CACAATCACCTTCT[G-c]ATCT	22	1
hsa miR-330-3p nat as	TCTCTGCAGGCCGTGTGCTTTGC	23	2
hsa miR-330-3p 2mut as	TCTCTGCAGGC[C-g]GTGTG[C-g]TTTGC	23	1

hsa miR-342-5p nat as	TCAATCACAGATAGCACCCCT	21	1
hsa miR-342-5p 2mut as	TCAATCA[C-g]AGA[T-a]AGCACCCCT	21	1
hsa miR-337-5p nat as	AACTCCTGTATGAAGCCGTTCT	21	1
hsa miR-337-5p 2mut as	AACT[C-g]CTGTATG[A-t]AGCCGTTCT	21	1
hsa miR-337-3p nat as	GAAGAAAGGCATCATATAGGAG	22	2
hsa miR-337-3p 2mut as	GAAGAAAGG[C-g]ATCA[T-a]ATAGGAG	22	1
hsa miR-326 nat as	CTGGAGGAAGGGCCAGAGG	20	2
hsa miR-326 2mut as	CTGGAGGAAGGG[C-g]CCAG[A-t]GG	20	1
hsa miR-151-3p nat as	CCTCAAGGAGCTTCAGTCTAG	21	2
hsa miR-151-3p 2mut as	CC[T-a]CAAGGAG[C-g]TTCAGTCTAG	21	1
hsa miR-324-3p nat as	CCAGCAGCACCTGGGGCAGT	20	2
hsa miR-324-3p 2mut as	CCAG[C-g]AGCA[C-g]CTGGGGCAGT	20	1
hsa miR-339-3p nat as	CGGCTCTGTCGTCGAGGCGCTCA	23	1
hsa miR-339-3p 2mut as	CGGCT[C-g]TGTCG[T-a]CGAGGCGCTCA	23	1
hsa miR-133b nat as	TAGCTGGTTGAAGGGGACCAAA	22	2
hsa miR-133b 2mut as	TAGCTGG[T-a]TGAAGGGGA[C-g]CAAA	22	1
hsa miR-325 nat as	ACACTTACTGGACACCTACTAGG	23	2
hsa miR-325 2mut as	ACAC[T-a]TACTGGACAC[C-g]TACTAGG	23	1
hsa miR-345 nat as	GAGCCCTGGACTAGGAGTCAGC	22	2
hsa miR-345 2mut as	GAGC[C-g]CTGGACTAGGAGTC[A-t]GC	22	1
hsa miR-346 nat as	AGAGGCAGGCATGCGGGCAGACA	23	2
hsa miR-346 2mut as	AGAGGCAGG[C-g]ATGCGGGCA[G-c]ACA	23	1
ptr miR-143 nat as	TGAGCTACAGTGCTTCATCTCA	22	2
ptr miR-143 2mut as	TGAGCTAC[A-t]GTG[C-g]TTCATCTCA	22	1
ptr miR-214 nat as	CTGCCTGTCTGTGCCTGCTGT	21	2
ptr miR-214 2mut as	CTGCCT[G-c]TCTGTG[C-g]CTGCTGT	21	1
ptr miR-223 nat as	GGGGTATTTGACAAACTGACA	21	2
ptr miR-223 2mut as	GGGG[T-a]ATTTGACAAA[C-g]TGACA	21	1
hsa miR-384 nat as	TATGAACAATTTCTAGGAAT	20	2
hsa miR-384 2mut as	TATGAAC[A-t]ATTT[C-g]TAGGAAT	20	1
hsa miR-196b nat as	CCCAACAACAGGAAACTACCTA	22	2
hsa miR-196b 2mut as	CCCAA[C-g]AAC[A-t]GGAAACTACCTA	22	1
hsa miR-409-5p nat as	ATGCAAAGTTGCTCGGGTAACCT	23	2
hsa miR-409-5p 2mut as	ATGCAAAGTTGCT[C-g]GGGTA[A-t]CCT	23	1
hsa miR-409-3p nat as	AGGGGTTCCACCGAGCAACATTC	22	2
hsa miR-409-3p 2mut as	AGGGGTTCAC[C-g]GAGCAACA[T-a]TC	22	1
hsa miR-410 nat as	ACAGGCCATCTGTGTTATATT	21	2

hsa miR-410 2mut as	ACAGG[C-g]CATCTGT[G-c]TTATATT	21	1
hsa miR-411 nat as	CGTACGCTATACGGTCTACTA	21	1
hsa miR-411 2mut as	CGTA[C-g]GCTATACGGTCT[A-t]CTA	21	1
age miR-222 nat as	GAGACCCAGTAGCCAGATGTAGCT	24	2
age miR-222 2mut as	GAGACCCAG[T-a]AGC[C-g]AGATGTAGCT	24	1
ptr miR-18a nat as	TATCTGCACTAGATGCACCTTA	22	2
ptr miR-18a 2mut as	TATCTGCA[C-g]TAGATGCAC[C-g]TTA	22	1
ptr miR-17-5p nat as	ACTACCTGCACTGTAAGCACTTTG	24	2
ptr miR-17-5p 2mut as	ACTACC[T-a]GCACTGTAAGCA[C-g]TTTG	24	1
ptr miR-17-3p nat as	ACAAGTGCCTTCACTGCAGT	20	2
ptr miR-17-3p 2mut as	AC[A-t]AGTGC[C-g]TTCAGTGCAGT	20	1
lca miR-16 nat as	CACCAATATTTACGTGCTGCTA	22	2
lca miR-16 2mut as	CAC[C-g]AATATTTAC[G-c]TGCTGCTA	22	1
ggo miR-153 nat as	TCACTTTTGTGACTATGCAA	20	2
ggo miR-153 2mut as	TCACTTTTGTGA[C-g]TATG[C-g]AA	20	1
ggo miR-196 nat as	CCAACAACATGAAACTACCTA	21	2
ggo miR-196 2mut as	CCA[A-t]CAACATGAAACTAC[C-g]TA	21	1
ptr miR-32 nat as	GCAACTTAGTAATGTGCAATA	21	2
ptr miR-32 2mut as	GCAA[C-g]TTAGTAA[T-a]GTGCAATA	21	1
ptr miR-124a nat as	TGGCATTACCCGCGTGCCTTAA	22	2
ptr miR-124a 2mut as	TGGCATTCA[C-g]CGC[G-c]TGCCCTTAA	22	1
ppa miR-216 nat as	CACAGTTGCCAGCTGAGATTA	21	2
ppa miR-216 2mut as	CACAGTTGC[C-g]AGCTGAGA[T-a]TA	21	1
ppa miR-217 nat as	ATCCAATCAGTTCCTGATGCAGTA	24	2
ppa miR-217 2mut as	ATC[C-g]AATCAGTT[C-g]CTGATGCAGTA	24	1
ptr miR-30a-3p nat as	GCTGCAAACATCCGACTGAAAG	22	2
ptr miR-30a-3p 2mut as	GCTGC[A-t]AACAT[C-g]CGACTGAAAG	22	1
ppa miR-10b nat as	ACAAATTCGGTTCTACAGGGTA	22	2
ppa miR-10b 2mut as	ACAAATTC[G-c]GTTCTA[C-g]AGGGTA	22	1
ptr miR-140 nat as	CTACCATAGGGTAAAACCACT	21	2
ptr miR-140 2mut as	CTACC[A-t]TAGGGTAAAAC[C-g]ACT	21	1
ptr miR-183 nat as	CAGTGAATTCTACCAGTGCCATA	23	2
ptr miR-183 2mut as	CAG[T-a]GAATTCTACCAGTGC[C-g]ATA	23	1
ppy miR-182 nat as	TGTGAGTTCTACCATTGCCAAA	22	2
ppy miR-182 2mut as	TGTGA[G-c]TTCTACCATTG[C-g]CAAA	22	1
hsa miR-422a nat as	GCCTTCTGACCCTAAGTCCAGT	22	2
hsa miR-422a 2mut as	GC[C-g]TTCTG[A-t]CCCTAAGTCCAGT	22	1

hsa miR-423-5p nat as	AAAGTCTCGCTCTCTGCCCTCA	23	1
hsa miR-423-5p 2mut as	AAAGTCT[C-g]GCTCTCT[G-c]CCCCTCA	23	1
hsa miR-423-3p nat as	ACTGAGGGGGCCTCAGACCGAGCT	23	2
hsa miR-423-3p 2mut as	ACT[G-c]AGGGGCCT[C-g]AGACCGAGCT	23	1
hsa miR-424 nat as	TTCAAACATGAATTGCTGCTG	22	2
hsa miR-424 2mut as	TTCAAACATGA[A-t]TTG[C-g]TGCTG	22	1
hsa miR-425 nat as	TCAACGGGAGTGATCGTGTCATT	23	1
hsa miR-425 2mut as	TCAACGGGAG[T-a]GAT[C-g]GTGTCATT	23	1
hsa miR-20b nat as	CTACCTGCACTATGAGCACTTTG	23	2
hsa miR-20b 2mut as	CTACCTG[C-g]ACT[A-t]TGAGCACTTTG	23	1
hsa miR-18b nat as	CTAACTGCACTAGATGCACCTTA	23	2
hsa miR-18b 2mut as	CTAACTGCACTAG[A-t]TGCA[C-g]CTTA	23	1
hsa miR-432 nat as	CCACCCAATGACCTACTCCAAGA	23	2
hsa miR-432 2mut as	CCA[C-g]CCA[A-t]TGACCTACTCCAAGA	23	1
hsa miR-431 nat as	TGCATGACGGCCTGCAAGACA	21	2
hsa miR-431 2mut as	TGCATG[A-t]CGGC[C-g]TGCAAGACA	21	1
hsa miR-433 nat as	ACACCGAGGAGCCCATCATGAT	22	2
hsa miR-433 2mut as	ACAC[C-g]GAGGAGCCCATCAT[G-c]AT	22	1
hsa miR-448 nat as	ATGGGACATCCTACATATGCAA	22	2
hsa miR-448 2mut as	ATGGGACAT[C-g]TAC[A-t]TATGCAA	22	1
hsa miR-429 nat as	ACGGTTTTACCAGACAGTATTA	22	2
hsa miR-429 2mut as	AC[G-c]GTTTTAC[C-g]AGACAGTATTA	22	1
hsa miR-449a nat as	ACCAGCTAACAATACACTGCCA	22	2
hsa miR-449a 2mut as	ACCAG[C-g]TAACAAT[A-t]CACTGCCA	22	1
hsa miR-450a nat as	ATATTAGGAACACATCGCAAAA	22	2
hsa miR-450a 2mut as	ATATTAGGAACA[C-g]ATCGCA[A-t]AA	22	1
hsa miR-329 nat as	AAAGAGGTTAACCAGGTGTGTT	22	2
hsa miR-329 2mut as	AAAGAGG[T-a]TAA[C-g]CAGGTGTGTT	22	1
hsa miR-453 nat as	TGCGAACTCACCACGGACAACCT	23	2
hsa miR-453 2mut as	TG[C-g]GAACTCACCACG[G-c]ACAACCT	23	1
hsa miR-451 nat as	AACTCAGTAATGGTAACGGTTT	22	2
hsa miR-451 2mut as	AACTCA[G-c]TAATGGTAA[C-g]GGTTT	22	1
hsa miR-452 nat as	TCAGTTTCCTCTGCAAACAGTT	22	2
hsa miR-452 2mut as	TCAGTTT[C-g]CTCTG[C-g]AAACAGTT	22	1
hsa miR-92b nat as	GGAGGCCGGGACGAGTGCAATA	22	1
hsa miR-92b 2mut as	GGAGGC[C-g]GGGACGAGT[G-c]CAATA	22	1
ptr miR-101 nat as	CTTCAGTTATCACAGTACTGTA	22	2

ptr miR-101 2mut as	CTT[C-g]AGTTA[T-a]CACAGTACTGTA	22	1
ppa miR-128 nat as	AAAAGAGACCGTTCACTGTGA	22	2
ppa miR-128 2mut as	AAAAGAGA[C-g]CGGTTCAC[T-a]GTGA	22	1
ptr miR-105 nat as	ACAGGAGTCTGAGCATTGTA	20	2
ptr miR-105 2mut as	ACAGGAGT[C-g]TGAGC[A-t]TTTGA	20	1
ptr miR-106a nat as	GCTACCTGCACTGTAAGCACTTTT	24	2
ptr miR-106a 2mut as	GCTACCTGCAC[T-a]GTAAG[C-g]ACTTTT	24	1
ptr miR-145 nat as	AAGGGATTCTGGGAAAACCTGGAC	24	2
ptr miR-145 2mut as	AAGGGATTCC[T-a]GGGAAA[C-g]TGGAC	24	1
ppa miR-181b nat as	AACCCACCGACAGCAATGAATGTT	24	2
ppa miR-181b 2mut as	AACCCA[C-g]CGACAGCAAT[G-c]AATGTT	24	1
ptr miR-20a nat as	TACCTGCACTATAAGCACTTTA	22	2
ptr miR-20a 2mut as	TACC[T-a]GCACTATAAGCA[C-g]TTTA	22	1
ptr miR-224 nat as	TAAACGGAACCACTAGTGACTTG	23	2
ptr miR-224 2mut as	TAAACGGAA[C-g]CACTAGTGA[C-g]TTG	23	1
ptr miR-29b nat as	ACTGATTTCAAATGGTGCTA	20	2
ptr miR-29b 2mut as	ACTGATTT[C-g]AAATGGTG[C-g]TA	20	1
ppa miR-7 nat as	AACAAAATCACTAGTCTTCCA	21	2
ppa miR-7 2mut as	AACAAAATCA[C-g]TAGTC[T-a]TCCA	21	1
ppa miR-139 nat as	AGACACGTGCACTGTAGA	18	2
ppa miR-139 2mut as	AGA[C-g]ACGTGCACTGT[A-t]GA	18	1
ptr miR-186 nat as	AAGCCCAAAGGAGAATTCTTTG	23	2
ptr miR-186 2mut as	AAGCC[C-g]AAAAGGAGA[A-t]TTCTTTG	23	1
hsa miR-412 nat as	ACGGCTAGTGGACCAGGTGAAGT	23	2
hsa miR-412 2mut as	ACGG[C-g]TAGTGGACCAGGT[G-c]AAGT	23	1
hsa miR-376b nat as	AACATGGATTTTCTCTATGAT	22	2
hsa miR-376b 2mut as	AA[C-g]ATGGATTTTCTCTAT[G-c]AT	22	1
hsa miR-483-5p nat as	CTCCCTTCTTTCTCCCGTCTT	22	1
hsa miR-483-5p 2mut as	CTCCCTTCTTT[C-g]CTCCC[G-c]TCTT	22	1
hsa miR-483-3p nat as	AAGACGGGAGGAGAGGAGTGA	21	2
hsa miR-483-3p 2mut as	AAGA[C-g]GGGAGGAG[A-t]GGAGTGA	21	1
hsa miR-484 nat as	ATCGGGAGGGGACTGAGCCTGA	22	2
hsa miR-484 2mut as	AT[C-g]GGGAGGGGACTGAG[C-g]CTGA	22	1
hsa miR-485-5p nat as	GAATTCATCACGGCCAGCCTCT	22	2
hsa miR-485-5p 2mut as	GAATTCAT[C-g]ACGGCC[A-t]GCCTCT	22	1
hsa miR-485-3p nat as	AGAGAGGAGAGCCGTGTATGAC	22	2
hsa miR-485-3p 2mut as	AGA[G-c]AGGAGAGC[C-g]GTGTATGAC	22	1

hsa miR-486-5p nat as	CTCGGGGCAGCTCAGTACAGGA	22	2
hsa miR-486-5p 2mut as	CTCGGGGCAG[C-g]TCAG[T-a]ACAGGA	22	1
hsa miR-486-3p nat as	ATCCTGTA CTGAGCTGCCCG	21	1
hsa miR-486-3p 2mut as	ATCCTGTA[C-g]TGAGC[T-a]GCCCG	21	1
hsa miR-487a nat as	AACTGGATGTCCCTGTATGATT	22	2
hsa miR-487a 2mut as	AA[C-g]TGGATG[T-a]CCCTGTATGATT	22	1
ggo miR-200c nat as	TCCATCATTACCCGGCAGTATT	22	2
ggo miR-200c 2mut as	TCCATCATT[A-t]CCCGG[C-g]AGTATT	22	1
ggo miR-141 nat as	CCATCTTTACCAGACAGTGTT	21	2
ggo miR-141 2mut as	CCATCTTTA[C-g]CAG[A-t]CAGTGTT	21	1
ppa miR-141 nat as	GCATCTTTACCAGACAGTGTT	21	2
ppa miR-141 2mut as	GCAT[C-g]TTTACCAGACAG[T-a]GTT	21	1
ptr miR-23b nat as	GTGGTAATCCCTGGCAATGTGAT	23	2
ptr miR-23b 2mut as	GTGGTAATC[C-g]CTGGCAAT[G-c]TGAT	23	1
ptr miR-30b nat as	GCTGAGTGTAGGATGTTTACA	21	2
ptr miR-30b 2mut as	GCTGAGT[G-c]TAGGATGTT[T-a]ACA	21	1
ppa miR-130a nat as	GCCCTTTTAACATTGCACTG	20	2
ppa miR-130a 2mut as	GCCCTTTTACA[T-a]TGCA[C-g]TG	20	1
ppy miR-133a nat as	ACAGCTGGTTGAAGGGGACAA	21	2
ppy miR-133a 2mut as	ACAGCTGGTT[G-c]AAGGGGA[C-g]AA	21	1
mne miR-140 nat as	CTACCATAGGGTAGAACCCT	21	2
mne miR-140 2mut as	CTACC[A-t]TAGGGTAGAA[C-g]CACT	21	1
ptr miR-144 nat as	CTAGTACATCATCTATACTGTA	22	2
ptr miR-144 2mut as	CTAG[T-a]ACATCATCTATA[C-g]TGTA	22	1
ppa miR-144 nat as	GTAGTACATCATCTATACTGTA	22	2
ppa miR-144 2mut as	GTAGTACATCA[T-a]CTATA[C-g]TGTA	22	1
ppa miR-134 nat as	CCCTCTGGTCAACCAGTCACA	21	2
ppa miR-134 2mut as	CC[C-g]TCTGGTCAACCAGTC[A-t]CA	21	1
ptr miR-188 nat as	ACCCTCCACCATGCAAGGGATG	22	2
ptr miR-188 2mut as	ACCCTCCA[C-g]CATG[C-g]AAGGGATG	22	1
ptr miR-29a nat as	AACCGATTT CAGATGGTGCTAG	22	2
ptr miR-29a 2mut as	AA[C-g]CGATTT CAGATGGTG[C-g]TAG	22	1
ptr miR-31 nat as	CAGCTATGCCAGCATCTTGCC	21	2
ptr miR-31 2mut as	CAGCTATGC[C-g]AGCATCTT[G-c]CC	21	1
ptr miR-33a nat as	CAATGCAACTACAATGCAC	19	2
ptr miR-33a 2mut as	CAA[T-a]GCAA[C-g]TACAATGCAC	19	1
ppy miR-10a nat as	CACAAATTCGGATCTACGGGGTA	23	2

ppy miR-10a 2mut as	CA[C-g]AAATTC[G-c]GATCTACGGGGTA	23	1
ppa miR-187 nat as	CGGCTGCAACACAAGACACGA	21	2
ppa miR-187 2mut as	CGG[C-g]TGCAACACAAGACA[C-g]GA	21	1
ptr miR-216a nat as	CACAGTTGCCAGCTGAGATAA	21	2
ptr miR-216a 2mut as	CA[C-g]AGTTGCCAGCTGA[G-c]ATAA	21	1
mne miR-220 nat as	AAAGTGT CAGACATGGTGGTGG	22	2
mne miR-220 2mut as	AAAGTGT C[A-t]GACAT[G-c]GTGGTGG	22	1
ggo miR-220 nat as	AAAGTGT CAGACACGGTGTGG	21	2
ggo miR-220 2mut as	AAAGTGT C[A-t]GACAC[G-c]GTGTGG	21	1
mne miR-197 nat as	GCCGGGTGGAGAAGGTGGTCAA	22	2
mne miR-197 2mut as	GC[C-g]GGGTGGAGAAGGT[G-c]GTCAA	22	1
ptr miR-198 nat as	CCTATCTCCCCTCTGGACC	19	2
ptr miR-198 2mut as	CCTAT[C-g]TCCCCTC[T-a]GGACC	19	1
age miR-198 nat as	CCTAGCTCCCCTCTGGACC	19	2
age miR-198 2mut as	CCTAG[C-g]TCCCCTC[G-c]GACC	19	1
mne miR-198 nat as	CCTATTTCCCCTCTGGACC	19	2
mne miR-198 2mut as	CCTATT[T-a]CCC[C-g]TCTGGACC	19	1
sla miR-198 nat as	TCGAGCTCCCCTCTGGACC	19	2
sla miR-198 2mut as	TCGA[G-c]CTCCC[C-g]TCTGGACC	19	1
lla miR-198 nat as	CCTAGCTCCCTTCTGGACC	19	2
lla miR-198 2mut as	CCTAG[C-g]TCCCTTCTG[G-c]ACC	19	1
ptr miR-27a nat as	GGCGGA ACTTAGCCACTGTCAA	22	2
ptr miR-27a 2mut as	GGCGGAA[C-g]TTAG[C-g]CACTGTCAA	22	1
ptr miR-93 nat as	CTACCTGCACGAACAGCACTTT	22	2
ptr miR-93 2mut as	CTAC[C-g]TGCACGAACAGCA[C-g]TTT	22	1
ptr miR-25 nat as	TCAGCCGAGACAAGTGCAATG	21	2
ptr miR-25 2mut as	TCAG[C-g]CGAG[A-t]CAAGTGCAATG	21	1
ptr miR-96 nat as	GCAAAAATGTGCTAGTGCCAAA	22	2
ptr miR-96 2mut as	GCAAAAATGTG[C-g]TAGTG[C-g]CAAAA	22	1
hsa miR-488 nat as	GACCAAGAAATAGCCTTTCAA	21	1
hsa miR-488 2mut as	GA[C-g]CAAGAAATAGCCT[T-a]TCAA	21	1
hsa miR-489 nat as	GCTGCCGTATATGTGATGTCAC	22	2
hsa miR-489 2mut as	GCTGC[C-g]GTATATGTG[A-t]TGTCAC	22	1
hsa miR-490-5p nat as	ACCCACCTGGAGATCCATGG	20	1
hsa miR-490-5p 2mut as	ACCCA[C-g]CTGGAGATCCA[T-a]GG	20	1
hsa miR-490-3p nat as	CAGCATGGAGTCCCTCCAGTTG	22	2
hsa miR-490-3p 2mut as	CAGCAT[G-c]GAGTCCTC[C-g]AGGTTG	22	1

hsa miR-491-5p nat as	CCTCATGGAAGGGTCCCCACT	22	2
hsa miR-491-5p 2mut as	CCT[C-g]ATGGAAGGG[T-a]TCCCCACT	22	1
hsa miR-491-3p nat as	GTAGAAGGGAATCTTGCATAAG	22	1
hsa miR-491-3p 2mut as	GTAGAAGGGAA[T-a]CTTG[C-g]ATAAG	22	1
hsa miR-511 nat as	TGACTGCAGAGCAAAAGACAC	21	2
hsa miR-511 2mut as	TGA[C-g]TGCAGAGCAAAAG[A-t]CAC	21	1
hsa miR-146b-5p nat as	AGCCTATGGAATTCAGTTCTCA	22	2
hsa miR-146b-5p 2mut as	AG[C-g]CTATGGAA[T-a]TCAGTTCTCA	22	1
hsa miR-146b-3p nat as	CCAGAACTGAGTCCACAGGGCA	22	1
hsa miR-146b-3p 2mut as	CCAGAACT[G-c]AGTCCA[C-g]AGGGCA	22	1
hsa miR-202 nat as	TTCCCATGCCCTATACCTCT	20	2
hsa miR-202 2mut as	TTCCCATG[C-g]CCTATACC[T-a]CT	20	1
hsa miR-492 nat as	AAGAATCTTGTCCCGCAGGTCCT	23	2
hsa miR-492 2mut as	AAGAATCTTGT[C-g]CCGCAGG[T-a]CCT	23	1
hsa miR-493 nat as	CCTGGCACACAGTAGACCTTCA	22	1
hsa miR-493 2mut as	CCTGGCACAC[A-t]GTAGA[C-g]CTTCA	22	1
hsa miR-494 nat as	GAGGTTTCCCGTGTATGTTTCA	22	2
hsa miR-494 2mut as	GAGGTTT[C-g]CCG[T-a]GTATGTTTCA	22	1
hsa miR-495 nat as	AAGAAGTGCACCATGTTTGT	22	2
hsa miR-495 2mut as	AAGAAGTGCA[C-g]CATGTT[T-a]GTTT	22	1
hsa miR-496 nat as	GAGATTGGCCATGTAATACTCA	22	2
hsa miR-496 2mut as	GAGATTGGC[C-g]ATGT[A-t]ATACTCA	22	1
hsa miR-193b nat as	AGCGGGACTTTGAGGGCCAGTT	22	2
hsa miR-193b 2mut as	AGCGGGA[C-g]TTTGAGGGCC[A-t]GTT	22	1
hsa miR-497 nat as	ACAAACCACAGTGTGCTGCTG	21	1
hsa miR-497 2mut as	ACAAAC[C-g]ACAGTGT[G-c]CTGCTG	21	1
hsa miR-181d nat as	ACCCACCGACAACAATGAATGTT	23	1
hsa miR-181d 2mut as	ACC[C-g]ACCG[A-t]CAACAATGAATGTT	23	1
hsa miR-512-5p nat as	GAAAGTGCCCTCAAGGCTGAGTG	23	1
hsa miR-512-5p 2mut as	GA[A-t]AGTGCCCT[C-g]AAGGCTGAGTG	23	1
hsa miR-512-3p nat as	GACCTCAGCTATGACAGCACTT	22	1
hsa miR-512-3p 2mut as	GACC[T-a]CAGCTATGACAGCA[C-g]TT	22	1
hsa miR-498 nat as	GAAAAACGCCCTGGCTTGAAA	23	1
hsa miR-498 2mut as	GAAAAACGCC[C-g]CCTGGCT[T-a]GAAA	23	1
hsa miR-520e nat as	CCCTCAAAAAGGAAGCACTTT	21	1
hsa miR-520e 2mut as	CCCT[C-g]AAAA[A-t]GGAAGCACTTT	21	1
hsa miR-515-5p nat as	CAGAAAGTGCTTTCTTTTGGAGAA	24	1

hsa miR-515-5p 2mut as	CA[G-c]AAAGTGCTTT[C-g]TTTTGGAGAA	24	1
hsa miR-515-3p nat as	AACGCTCCAAAAGAAGGCACTC	22	1
hsa miR-515-3p 2mut as	AA[C-g]GCTCCAAAA[G-c]AAGGCACTC	22	1
hsa miR-519e nat as	AACACTCTAAAAGGAGGCACTT	22	1
hsa miR-519e 2mut as	AACACTCTAAAAGG[A-t]GGCA[C-g]TT	22	1
hsa miR-520f nat as	AACCCTCTAAAAGGAAGCACTT	22	1
hsa miR-520f 2mut as	AACC[C-g]TCTAAAAGGAAG[C-g]ACTT	22	1
hsa miR-519c-5p nat as	CAGAAAGCGCTTCCCTCTAGAG	22	1
hsa miR-519c-5p 2mut as	CAG[A-t]AAGCGCTTCC[C-g]TCTAGAG	22	1
hsa miR-519c-3p nat as	ATCCTCTAAAAGATGCACTTT	22	1
hsa miR-519c-3p 2mut as	ATCCT[C-g]TAAAAGATGCA[C-g]TTT	22	1
hsa miR-520a-5p nat as	AGAAAGTACTTCCCTCTGGAG	21	1
hsa miR-520a-5p 2mut as	AGAAAGTA[C-g]TCCCTC[T-a]GGAG	21	1
hsa miR-520a-3p nat as	ACAGTCCAAAGGGAAGCACTTT	22	1
hsa miR-520a-3p 2mut as	ACAGTC[C-g]AAAGGGA[A-t]GCACTTT	22	1
hsa miR-526b nat as	ACAGAAAGTGCTTCCCTCAAGAG	23	1
hsa miR-526b 2mut as	ACAGAAAG[T-a]GCTTC[C-g]CTCAAGAG	23	1
hsa miR-519b-3p nat as	AACCTCTAAAAGGATGCACTTT	22	1
hsa miR-519b-3p 2mut as	AACCT[C-g]TAA[A-t]AGGATGCACTTT	22	1
hsa miR-525-5p nat as	AGAAAGTGCATCCCTCTGGAG	21	1
hsa miR-525-5p 2mut as	AGA[A-t]AGTGCATCCCT[C-g]TGGAG	21	1
hsa miR-525-3p nat as	CGCTCTAAAGGGAAGCGCCTTC	22	1
hsa miR-525-3p 2mut as	CG[C-g]TCTAAAGGGAAGC[G-c]CCTTC	22	1
hsa miR-523 nat as	ACCCTCTATAGGGAAGCGCGTTC	23	1
hsa miR-523 2mut as	ACCCTCTATAG[G-c]GAAGCG[C-g]GTTC	23	1
hsa miR-518f nat as	CCTCTAAAGAGAAGCGCTTTC	21	1
hsa miR-518f 2mut as	CCTCTAAAGAGA[A-t]GCG[C-g]TTTC	21	1
hsa miR-520b nat as	CCCTCTAAAAGGAAGCACTTT	21	1
hsa miR-520b 2mut as	CCCT[C-g]TAAAAGGAAGC[A-t]CTTT	21	1
hsa miR-518b nat as	ACCTCTAAAGGGGAGCGCTTTG	22	1
hsa miR-518b 2mut as	ACC[T-a]CTAAAGGGGAG[C-g]GCTTTG	22	1
hsa miR-526a nat as	CAGAAAGTGCTTCCCTCTAGAG	22	1
hsa miR-526a 2mut as	CAGAAAGTG[C-g]TTC[C-g]CTCTAGAG	22	1
hsa miR-520c-3p nat as	ACCCTCTAAAAGGAAGCACTTT	22	1
hsa miR-520c-3p 2mut as	AC[C-g]CTCTAAAAGG[A-t]AGCACTTT	22	1
hsa miR-518c nat as	ACACTCTAAAGAGAAGCGCTTTG	23	1
hsa miR-518c 2mut as	ACACTCTAAAGAGA[A-t]GCG[C-g]TTTG	23	1

hsa miR-524-5p nat as	GAGAAAGTGCTTCCCTTTGTAG	22	1
hsa miR-524-5p 2mut as	GAGAAAG[T-a]GCTT[C-g]CCTTTGTAG	22	1
hsa miR-524-3p nat as	ACTCCAAAGGGAAGCGCCTTC	21	1
hsa miR-524-3p 2mut as	ACTCCA[A-t]AGGGAAGCGC[C-g]TTC	21	1
hsa miR-517a nat as	ACACTCTAAAGGGATGCACGAT	22	1
hsa miR-517a 2mut as	ACA[C-g]TCTAAAGGGATGCA[C-g]GAT	22	1
hsa miR-519d nat as	CACTCTAAAGGGAGGCACTTTG	22	1
hsa miR-519d 2mut as	CA[C-g]TCTAAAGGGAGGC[A-t]CTTTG	22	1
hsa miR-521 nat as	ACACTCTAAAGGGAAGTGCATT	22	1
hsa miR-521 2mut as	ACACT[C-g]TAAAGGGAAGTG[C-g]GTT	22	1
hsa miR-520d-5p nat as	GAAAGGGCTTCCCTTTGTAG	20	1
hsa miR-520d-5p 2mut as	GAAAGGG[C-g]TTCCCTTTG[T-a]AG	20	1
hsa miR-520d-3p nat as	ACCCACCAAAGAGAAGCACTTT	22	1
hsa miR-520d-3p 2mut as	AC[C-g]CACC[A-t]AAGAGAAGCACTTT	22	1
hsa miR-517b nat as	AACACTCTAAAGGGATGCACGA	22	1
hsa miR-517b 2mut as	AA[C-g]ACTCTAAA[G-c]GGATGCACGA	22	1
hsa miR-520g nat as	ACACTCTAAAGGGAAGCACTTTGT	24	1
hsa miR-520g 2mut as	ACACT[C-g]TAAAGGGAAG[C-g]ACTTTGT	24	1
hsa miR-516b nat as	AAAGTGCTTCTTACCTCCAGAT	22	1
hsa miR-516b 2mut as	AAAGT[G-c]CTTCTTACCTC[C-g]AGAT	22	1
hsa miR-518e nat as	CACTCTGAAGGGAAGCGCTTT	21	1
hsa miR-518e 2mut as	CACTCTGA[A-t]GGGAAGCG[C-g]TTT	21	1
hsa miR-518a-5p nat as	GAAAGGGCTTCCCTTTGCAG	20	1
hsa miR-518a-5p 2mut as	GAAAGGGC[T-a]TCCCTTTG[C-g]AG	20	1
hsa miR-518a-3p nat as	TCCAGCAAAGGGAAGCGCTTTC	22	1
hsa miR-518a-3p 2mut as	TCCAGCAA[G-c]GGAAGCG[C-g]TTTC	22	1
hsa miR-518d-3p nat as	GCTCCAAAGGGAAGCGCTTTG	21	1
hsa miR-518d-3p 2mut as	GCTCCAAA[G-c]GGAAGCG[C-g]TTTG	21	1
hsa miR-517c nat as	ACACTCTAAAAGGATGCACGAT	22	1
hsa miR-517c 2mut as	ACACT[C-g]TAAA[A-t]GGATGCACGAT	22	1
hsa miR-520h nat as	ACTCTAAAGGGAAGCACTTTGT	22	1
hsa miR-520h 2mut as	ACTCTAAAGGGA[A-t]GCA[C-g]TTTGT	22	1
hsa miR-522 nat as	ACACTCTAAAGGGAACCATTTT	22	1
hsa miR-522 2mut as	ACACTCTAAAGGGA[C-g]CAT[T-a]TT	22	1
hsa miR-519a nat as	ACACTCTAAAAGGATGCACCTTT	22	1
hsa miR-519a 2mut as	ACA[C-g]TCTAAAAGGA[T-a]GCACCTTT	22	1
hsa miR-516a-5p nat as	GAAAGTGCTTCTTTCCTCGAGAA	23	1

hsa miR-516a-5p 2mut as	GAAAGTG[C-g]TTCTTTCTCGA[G-c]AA	23	1
hsa miR-516a-3p nat as	ACCCTCTGAAAGGAAGCA	18	1
hsa miR-516a-3p 2mut as	ACCCT[C-g]TGA[A-t]AGGAAGCA	18	1
hsa miR-499-5p nat as	AAACATCACTGCAAGTCTTAA	21	1
hsa miR-499-5p 2mut as	AAACA[T-a]CACTG[C-g]AAGTCTTAA	21	1
hsa miR-499-3p nat as	AGCACAGACTTGCTGTGATGTT	22	1
hsa miR-499-3p 2mut as	AG[C-g]ACAGACTTGCTGT[G-c]ATGTT	22	1
hsa miR-500 nat as	TCTCACCCAGGTAGCAAGGATTA	23	1
hsa miR-500 2mut as	TCT[C-g]ACCCAGGTAGCA[A-t]GGATTA	23	1
hsa miR-501-5p nat as	TCTCACCCAGGGACAAAGGATT	22	1
hsa miR-501-5p 2mut as	TCT[C-g]ACCCAGGGACAA[A-t]GGATT	22	1
hsa miR-501-3p nat as	AGAATCCTTGCCCGGGTGCATT	22	1
hsa miR-501-3p 2mut as	AG[A-t]ATCCTTG[C-g]CCGGTGCATT	22	1
hsa miR-502-5p nat as	TAGCACCCAGATAGCAAGGAT	21	1
hsa miR-502-5p 2mut as	TAG[C-g]ACCCAGATAGCAA[G-c]GAT	21	1
hsa miR-502-3p nat as	TGAATCCTTGCCAGGTGCATT	22	1
hsa miR-502-3p 2mut as	TGAATC[C-g]TTG[C-g]CCAGGTGCATT	22	1
hsa miR-503 nat as	CTGCAGAACTGTTCCCGCTGCTA	23	1
hsa miR-503 2mut as	CTGCAG[A-t]ACTGTT[C-g]CCGCTGCTA	23	1
hsa miR-504 nat as	GATAGAGTGCAGACCAGGGTCT	22	1
hsa miR-504 2mut as	GATAG[A-t]GTG[C-g]AGACCAGGGTCT	22	1
hsa miR-505 nat as	AGGAAACCAGCAAGTGTGACG	22	1
hsa miR-505 2mut as	AGGAAAC[C-g]AGCAAGTGT[G-c]ACG	22	1
hsa miR-513a-5p nat as	ATGACACCTCCCTGTGAA	18	1
hsa miR-513a-5p 2mut as	ATGACACCTC[C-g]CTG[T-a]GAA	18	1
hsa miR-513a-3p nat as	CCTTCTCAGAAAGGTGAAATTTA	23	1
hsa miR-513a-3p 2mut as	CCTT[C-g]TCAGAAAGGTGAAAT[T-a]TA	23	1
hsa miR-506 nat as	TCTACTCAGAAGGGTGCCTTA	21	1
hsa miR-506 2mut as	TCTACTCAGA[A-t]GGGTG[C-g]CTTA	21	1
hsa miR-507 nat as	TTCACTCCAAAAGGTGCAAAA	21	1
hsa miR-507 2mut as	TTCACT[C-g]CAAAAAGG[T-a]GCAAAA	21	1
hsa miR-508-5p nat as	CATGAGTGACGCCCTCTGGAGTA	23	1
hsa miR-508-5p 2mut as	CATGAGTG[A-t]CGC[C-g]CTCTGGAGTA	23	1
hsa miR-508-3p nat as	TCTACTCCAAAAGGCTACAATCA	23	1
hsa miR-508-3p 2mut as	TCTACTC[C-g]AAAAGG[C-g]TACAATCA	23	1
hsa miR-509-5p nat as	TGATTGCCACTGTCTGCAGTA	21	1
hsa miR-509-5p 2mut as	TGATTG[C-g]CACT[G-c]TCTGCAGTA	21	1

hsa miR-509-3p nat as	CTACCCACAGACGTACCAATCA	22	1
hsa miR-509-3p 2mut as	CTACC[C-g]ACAGAC[G-c]TACCAATCA	22	1
hsa miR-510 nat as	GTGATTGCCACTCTCCTGAGTA	22	1
hsa miR-510 2mut as	GTGATTG[C-g]CAC[T-a]CTCCTGAGTA	22	1
hsa miR-514 nat as	TCTACTCACAGAAGTGTCAAT	21	1
hsa miR-514 2mut as	TCTA[C-g]TCA[C-g]AGAAGTGTCAAT	21	1
hsa miR-532-5p nat as	ACGGTCCTACACTCAAGGCATG	22	1
hsa miR-532-5p 2mut as	ACGGTC[C-g]TAC[A-t]CTCAAGGCATG	22	1
hsa miR-532-3p nat as	TGCAAGCCTTGGGTGTGGGAGG	22	1
hsa miR-532-3p 2mut as	TG[C-g]AAGCCTT[G-c]GGTGTGGGAGG	22	1
hsa miR-455-5p nat as	CGATGTAGTCCAAAGGCACATA	22	1
hsa miR-455-5p 2mut as	CG[A-t]TGTAGTC[C-g]AAAGGCACATA	22	1
hsa miR-455-3p nat as	GTGTATATGCCATGGACTGC	21	1
hsa miR-455-3p 2mut as	GTG[T-a]ATATGCC[C-g]ATGGACTGC	21	1
hsa miR-539 nat as	ACACACCAAGGATAATTTCTCC	22	1
hsa miR-539 2mut as	ACACA[C-g]CAAGGAT[A-t]ATTTCTCC	22	1
hsa miR-544 nat as	GAACTTGCTAAAAATGCAGAAAT	22	1
hsa miR-544 2mut as	GAACTTG[C-g]TAAAAATGCAG[A-t]AT	22	1
hsa miR-545 nat as	GCACACAATAAATGTTTGCTGA	22	1
hsa miR-545 2mut as	GCACA[C-g]AATAAA[T-a]GTTTGCTGA	22	1
hsa miR-543 nat as	AAGAAGTGCACCCGGAATGTTT	22	1
hsa miR-543 2mut as	AAGA[A-t]GTGCACCC[C-g]GAATGTTT	22	1
hsa miR-542-3p nat as	TTTCAGTTATCAATCTGTGACACA	22	1
hsa miR-542-3p 2mut as	TTTC[A-t]GTTATCAATCTGT[C-g]ACA	22	1
hsa miR-487b nat as	AAGTGGATGACCCTGTACGATT	22	1
hsa miR-487b 2mut as	AAGTGGATGACCC[T-a]GTA[C-g]GATT	22	1
hsa miR-374b nat as	CACTTAGCAGGTTGTATTATAT	22	1
hsa miR-374b 2mut as	CA[C-g]TTAGCAGG[T-a]TGTATTATAT	22	1
hsa miR-551a nat as	TGGAAACCAAGAGTGGGTCCG	21	1
hsa miR-551a 2mut as	TGGAAAC[C-g]AAGAGT[G-c]GGTCCG	21	1
hsa miR-552 nat as	TTGTCTAACCAGTCACCTGTT	21	1
hsa miR-552 2mut as	TTGT[C-g]TAACC[A-t]GTCACCTGTT	21	1
hsa miR-553 nat as	AAAACAAAATCTCACCGTTTT	21	1
hsa miR-553 2mut as	AAAAC[A-t]AAAT[C-g]TCACCGTTTT	21	1
hsa miR-554 nat as	ACTGGCTGAGTCAGGACTAGC	21	1
hsa miR-554 2mut as	ACT[G-c]GCTGAGT[C-g]AGGACTAGC	21	1
hsa miR-555 nat as	ATCAGAGGTTTACGCTTACCCT	21	1

hsa miR-555 2mut as	ATCAGAGG[T-a]TCAGCTTA[C-g]CCT	21	1
hsa miR-556-5p nat as	CTCATATTACAATGAGCTCATC	22	1
hsa miR-556-5p 2mut as	CTCATA[T-a]TACAATGAG[C-g]TCATC	22	1
hsa miR-556-3p nat as	AAAGATGAGCTAATGGTAATAT	22	1
hsa miR-556-3p 2mut as	AAAGATGAG[C-g]TAATGGT[A-t]ATAT	22	1
hsa miR-557 nat as	AGACAAGGCCACCCGTGCAAAC	23	1
hsa miR-557 2mut as	AGACA[A-t]GGCCAC[C-g]CGTGCAAAC	23	1
hsa miR-558 nat as	ATTTTGGTACAGCAGCTCA	19	1
hsa miR-558 2mut as	ATTTTGGTA[C-g]AGCAGC[T-a]CA	19	1
hsa miR-559 nat as	TTTTGGTGCATATTTACTTTA	21	1
hsa miR-559 2mut as	TTTTGGTGCATA[T-a]TTA[C-g]TTTA	21	1
hsa miR-561 nat as	ACTTCAAGGATCTTAACTTTG	22	1
hsa miR-561 2mut as	ACT[T-a]CAAGGATCTTAAA[C-g]TTTG	22	1
hsa miR-562 nat as	GCAAATGGTACAGCTACTTT	20	1
hsa miR-562 2mut as	GCAAATGGT[A-t]CAGCTA[C-g]TTT	20	1
hsa miR-563 nat as	GGGAAACGTATGTCAACCT	19	1
hsa miR-563 2mut as	GGGAA[A-t]CGTATGT[C-g]AACCT	19	1
hsa miR-564 nat as	GCCTGCTGACACCGTGCCT	19	1
hsa miR-564 2mut as	GCCTGCTG[A-t]CACCGTG[C-g]CT	19	1
hsa miR-566 nat as	GTTGGGATCACAGGCGCCC	19	1
hsa miR-566 2mut as	GTTGG[G-c]ATCACAGGCG[C-g]CC	19	1
hsa miR-567 nat as	GTTCTGTCCTGGAAGAACAATACT	23	1
hsa miR-567 2mut as	GTTCTGTC[C-g]TGGAAGAAC[A-t]TACT	23	1
hsa miR-568 nat as	GTGTGTATACATTTATACAT	20	1
hsa miR-568 2mut as	GTGTGTAT[A-t]CAT[T-a]TATACAT	20	1
hsa miR-551b nat as	CTGAAACCAAGTATGGGTGCGC	21	1
hsa miR-551b 2mut as	CTGAAACCA[A-t]GTATGGGT[C-g]GC	21	1
hsa miR-569 nat as	ACTTTCCAGGATTCATTA ACT	21	1
hsa miR-569 2mut as	ACTTTCCAGGATT[C-g]ATTA[A-t]CT	21	1
hsa miR-570 nat as	GCAAAGGTAATTGCTGTTTTCG	22	1
hsa miR-570 2mut as	GCAA[A-t]GGTAATTGCTG[T-a]TTTTCG	22	1
hsa miR-571 nat as	CTCACTCAGATGGCCAACTCA	21	1
hsa miR-571 2mut as	CTCACTC[A-t]GATGGCCAA[C-g]TCA	21	1
hsa miR-572 nat as	TGGGCCACCGCCGAGCGGAC	20	1
hsa miR-572 2mut as	TGGGCCACCG[C-g]CGAGCG[G-c]AC	20	1
hsa miR-573 nat as	CTGATCAGTTACACATCACTTCAG	24	1
hsa miR-573 2mut as	CTGAT[C-g]AGTTACAC[A-t]TCACTTCAG	24	1

hsa miR-574-5p nat as	ACACACTCACACACACACTCA	23	1
hsa miR-574-5p 2mut as	ACACACT[C-g]ACACACACAC[A-t]CTCA	23	1
hsa miR-574-3p nat as	TGTGGGTGTGTGCATGAGCGTG	22	1
hsa miR-574-3p 2mut as	TGT[G-c]GGTGTGTGCATGAG[C-g]GTG	22	1
hsa miR-575 nat as	GCTCCTGTCCAAGTGGCTC	19	1
hsa miR-575 2mut as	GCTCCT[G-c]TCCAA[C-g]TGGCTC	19	1
hsa miR-576-5p nat as	AAAGACGTGGAGAAATTAGAAT	22	1
hsa miR-576-5p 2mut as	AAAGA[C-g]GTGGAGAAATT[A-t]GAAT	22	1
hsa miR-576-3p nat as	GATTCCAATTTTTCCACATCTT	22	1
hsa miR-576-3p 2mut as	GATTC[C-g]AATTTTT[T-a]CCACATCTT	22	1
hsa miR-577 nat as	CAGGTACCAATATTTTATCTA	21	1
hsa miR-577 2mut as	CAGGTAC[C-g]AATA[T-a]TTTATCTA	21	1
hsa miR-578 nat as	ACAATCCTAGAGCACAAGAAG	21	1
hsa miR-578 2mut as	ACAAT[C-g]CTAGAG[C-g]ACAAGAAG	21	1
hsa miR-579 nat as	AATCGCGTTTATACCAAATGAA	23	1
hsa miR-579 2mut as	AATCGCGTTTATAC[C-g]AAAT[G-c]AA	23	1
hsa miR-580 nat as	CCTAATGATTCATCATTCTCAA	22	1
hsa miR-580 2mut as	CCTAATGA[T-a]TCATCATT[C-g]TCAA	22	1
hsa miR-581 nat as	ACTGATCTAGAGAACAAGA	21	1
hsa miR-581 2mut as	ACTGATCTA[G-c]AGAACA[C-g]AAGA	21	1
hsa miR-582-5p nat as	AGTAACTGGTTGAACAAGTAA	23	1
hsa miR-582-5p 2mut as	AG[T-a]AACTGGTTGAACAA[C-g]TGTA	23	1
hsa miR-582-3p nat as	GGTTCAGTTGTTCAACCAGTTA	22	1
hsa miR-582-3p 2mut as	GGTTCAGTTGTT[C-g]AAC[C-g]AGTTA	22	1
hsa miR-583 nat as	GTAATGGGACCTTCCTCTTTG	21	1
hsa miR-583 2mut as	GTAATGGGAC[C-g]TTCCTCT[T-a]TG	21	1
hsa miR-584 nat as	CTCAGTCCCAGGCAAACCATAA	22	1
hsa miR-584 2mut as	CTC[A-t]GTCC[C-g]AGGCAAACCATAA	22	1
hsa miR-585 nat as	TAGCATACAGATACGCCCA	19	1
hsa miR-585 2mut as	TAGCATAC[A-t]GATACGC[C-g]CA	19	1
hsa miR-548a-3p nat as	GCAAAAAGTAATTGCCAGTTTTG	22	1
hsa miR-548a-3p 2mut as	GCAAAAAGTAATTGC[C-g]AGTT[T-a]TG	22	1
hsa miR-586 nat as	GGACCTAAAAATACAATGCATA	22	1
hsa miR-586 2mut as	GGACCTAAAAA[T-a]ACAATG[C-g]ATA	22	1
hsa miR-587 nat as	GTGACTCATCACCTATGGAAA	21	1
hsa miR-587 2mut as	GTGA[C-g]TCATCACCTATGG[A-t]AA	21	1
hsa miR-548b-5p nat as	GGCCAAAACCACAATTACTTTT	22	1

hsa miR-548b-5p 2mut as	GG[C-g]CAAAACCACAAT[T-a]ACTTTT	22	1
hsa miR-548b-3p nat as	ACAAAAGCAACTGAGGTTCTTG	22	1
hsa miR-548b-3p 2mut as	ACAAAAG[C-g]AACTG[A-t]GGTTCTTG	22	1
hsa miR-588 nat as	GTTCTAACCCATTGTGGCCAA	21	1
hsa miR-588 2mut as	GTTCTAA[C-g]CCATTG[T-a]GGCCAA	21	1
hsa miR-589 nat as	CTCAGAGCAGACGTGGTTCTCA	22	1
hsa miR-589 2mut as	CTCAGAGCAG[A-t]CGTGGTT[C-g]TCA	22	1
hsa miR-550 nat as	GGGCTCTTACTCCCTCAGGCACT	23	1
hsa miR-550 2mut as	GGG[C-g]TCTTA[C-g]TCCCTCAGGCACT	23	1
hsa miR-590-5p nat as	CTGCACTTTTATGAATAAGCTC	22	1
hsa miR-590-5p 2mut as	CTGCACTTTTA[T-a]GAATAAG[C-g]TC	22	1
hsa miR-590-3p nat as	ACTAGCTTATACATAAAATTA	21	1
hsa miR-590-3p 2mut as	ACTAG[C-g]TTA[T-a]ACATAAAATTA	21	1
hsa miR-591 nat as	ACAATGAGAACCCATGGTCT	20	1
hsa miR-591 2mut as	AC[A-t]ATGAGAACC[C-g]ATGGTCT	20	1
hsa miR-592 nat as	ACATCATCGCATATTGACACAA	22	1
hsa miR-592 2mut as	ACAT[C-g]ATCGCATATTGACA[C-g]AA	22	1
hsa miR-593 nat as	AGAAACCCCAGCAGAGACA	19	1
hsa miR-593 2mut as	AGAA[A-t]CCC[C-g]AGCAGAGACA	19	1
hsa miR-595 nat as	AGACACACCACGGCACACTTC	21	1
hsa miR-595 2mut as	AGACACACCACGG[C-g]ACAC[T-a]TC	21	1
hsa miR-596 nat as	CCCGAGGAGCCGGGCAGGCTT	21	1
hsa miR-596 2mut as	CCCGAG[G-c]AGCCGGGCAGG[C-g]TT	21	1
hsa miR-597 nat as	ACAGTGGTCATCGAGTGACACA	22	1
hsa miR-597 2mut as	ACAGTGGTCATC[G-c]AGTGA[C-g]ACA	22	1
hsa miR-598 nat as	TGACGATGACAACGATGACGTA	22	1
hsa miR-598 2mut as	TGACGATGACAAC[G-c]ATGA[C-g]GTA	22	1
hsa miR-599 nat as	GTTTGATAAACTGACACAAC	20	1
hsa miR-599 2mut as	GTTTG[A-t]TAAACTGA[C-g]ACAAC	20	1
hsa miR-548a-5p nat as	GGTAAAACTCGCAATTACTTTT	22	1
hsa miR-548a-5p 2mut as	GGTAAAACT[C-g]GCAATTAC[T-a]TTT	22	1
hsa miR-600 nat as	GAGCAAGGCTCTTGTCTGTAAGT	23	1
hsa miR-600 2mut as	GAGCAAGGCTCTTGT[C-g]TGTA[A-t]GT	23	1
hsa miR-601 nat as	CTCCTCCAACAATCCTAGACCA	22	1
hsa miR-601 2mut as	CTCCTCCAACAATC[C-g]TAG[A-t]CCA	22	1
hsa miR-602 nat as	GGGCCGCAGCTGTCGCCCGTGTC	23	1
hsa miR-602 2mut as	GGGCCGCAGCTGT[C-g]GCC[C-g]GTGTC	23	1

hsa miR-603 nat as	GCAAAAGTAATTGCAGTGTGTG	22	1
hsa miR-603 2mut as	GCAAAAG[T-a]AATTGCAGTGT[G-c]TG	22	1
hsa miR-604 nat as	GTCCTGAATTCCGCAGCCT	19	1
hsa miR-604 2mut as	GTCCTGA[A-t]TTC[C-g]GCAGCCT	19	1
hsa miR-605 nat as	AGGAGAAGGCACCATGGGATTTA	23	1
hsa miR-605 2mut as	AGGA[G-c]AAGGCA[C-g]CATGGGATTTA	23	1
hsa miR-606 nat as	ATCTTTGATTTTCAGTAGTTT	21	1
hsa miR-606 2mut as	AT[C-g]TTTGATTTTC[A-t]GTAGTTT	21	1
hsa miR-607 nat as	GTTATAGATCTGGATTTGAAC	21	1
hsa miR-607 2mut as	GTTATAGAT[C-g]TGGAT[T-a]TGAAC	21	1
hsa miR-608 nat as	ACGGAGCTGTCCCAACACCACCCT	25	1
hsa miR-608 2mut as	AC[G-c]GAGCTGTCCCAACACCAC[C-g]CCT	25	1
hsa miR-609 nat as	AGAGATGAGAGAAACACCCT	20	1
hsa miR-609 2mut as	AGAGA[T-a]GAGAGAAACA[C-g]CCT	20	1
hsa miR-610 nat as	TCCCAGCACACATTTAGCTCA	21	1
hsa miR-610 2mut as	TCCCAGCAC[A-c]ATTT[A-t]GCTCA	21	1
hsa miR-611 nat as	GTCAGACCCCGAGGGTCTCGC	23	1
hsa miR-611 2mut as	GTCAGACCCCG[A-t]GGGGTCT[C-g]GC	23	1
hsa miR-612 nat as	AAGGAGCTCAGAAGCCCTGCCCAGC	25	1
hsa miR-612 2mut as	AAGGAGCTCAGAAG[C-g]CCTGC[C-g]CAGC	25	1
hsa miR-613 nat as	GGCAAAGAAGGAACATTCCT	20	1
hsa miR-613 2mut as	GGCAA[G-c]AAGGAA[C-g]ATTCCT	20	1
hsa miR-614 nat as	CCACCTGGCAAGAACAGGCGTTC	23	1
hsa miR-614 2mut as	CC[A-t]CCTGGCAAGAA[C-g]AGGCGTTC	23	1
hsa miR-615-5p nat as	GATCCGAGCACCGGGGACCCCC	22	1
hsa miR-615-5p 2mut as	GATCCGAG[C-g]ACCGGGGA[C-g]CCCC	22	1
hsa miR-615-3p nat as	AAGAGGGAGACCCAGGCTCGGA	22	1
hsa miR-615-3p 2mut as	AAGAGGGAGA[C-g]CCAGGC[T-a]CGGA	22	1
hsa miR-616 nat as	CTGCTCAAACCTCCAATGACT	22	1
hsa miR-616 2mut as	CTGCTCAAACC[C-g]TCC[A-t]ATGACT	22	1
hsa miR-548c-5p nat as	GGCAAAAACCGCAATTACTTTT	22	1
hsa miR-548c-5p 2mut as	GGCAAAA[C-g]CGCAATTA[C-g]TTTT	22	1
hsa miR-548c-3p nat as	GCAAAAGTAATTGAGATTTTTG	22	1
hsa miR-548c-3p 2mut as	GCAAAAGT[A-t]ATTGAGA[T-a]TTTTG	22	1
hsa miR-617 nat as	GCCACCTTCAAATGGGAAGTCT	22	1
hsa miR-617 2mut as	GCCA[C-g]CTTCAAAT[G-c]GGAAGTCT	22	1
hsa miR-618 nat as	ACTCAGAAGGACAAGTAGAGTTT	23	1

hsa miR-618 2mut as	ACTCAGA[A-t]GGA[C-g]AAGTAGAGTTT	23	1
hsa miR-619 nat as	ACTGGGCACAAACATGTCCAGGTC	24	1
hsa miR-619 2mut as	ACTGGGCA[C-g]AAAC[A-t]TGTCCAGGTC	24	1
hsa miR-620 nat as	ATTTCTATATCTATCTCCAT	20	1
hsa miR-620 2mut as	ATT[T-a]CTATATCTATCT[C-g]CAT	20	1
hsa miR-621 nat as	AGGTAAGCGCTGTTGCTAGCC	21	1
hsa miR-621 2mut as	AGGTAAG[C-g]GCTGTTGC[T-a]AGCC	21	1
hsa miR-622 nat as	GCTCCAACCTCAGCAGACTGT	21	1
hsa miR-622 2mut as	GCTC[C-g]AACCTCAGC[A-t]GACTGT	21	1
hsa miR-623 nat as	ACCCAACAGCCCCTGCAAGGGAT	23	1
hsa miR-623 2mut as	ACC[C-g]AACAGCCC[C-g]TGCAAGGGAT	23	1
hsa miR-624 nat as	AGGTAATACCAATACCTTGTG	21	1
hsa miR-624 2mut as	AGGTAATAC[C-g]AATACCTT[G-c]TG	21	1
hsa miR-625 nat as	GGACTATAGAACTTTCCCCCT	21	1
hsa miR-625 2mut as	GGACTATAGAACTT[T-a]CCC[C-g]CT	21	1
hsa miR-626 nat as	AAGACATTTTCAGACAGCT	19	1
hsa miR-626 2mut as	AAGACATTTT[C-g]AGAC[A-t]GCT	19	1
hsa miR-627 nat as	TCCTCTTTTCTTAGAGACTCAC	22	1
hsa miR-627 2mut as	TCCTCTTTT[C-g]TTAGAGA[C-g]TCAC	22	1
hsa miR-628-5p nat as	CCTCTAGTAAATATGTCAGCAT	22	1
hsa miR-628-5p 2mut as	CCT[C-g]TAGTAAATAT[G-c]TCAGCAT	22	1
hsa miR-628-3p nat as	TCGACTGCCACTCTTACTAGA	21	1
hsa miR-628-3p 2mut as	TCG[A-t]CTGC[C-g]ACTCTTACTAGA	21	1
hsa miR-629 nat as	AGTTCTCCCAACGTAAACCCA	21	1
hsa miR-629 2mut as	AGTTC[T-a]CCCAA[C-g]GTAAACCCA	21	1
hsa miR-630 nat as	ACCTTCCCTGGTACAGAATACT	22	1
hsa miR-630 2mut as	ACCTTCC[C-g]TGGTACAG[A-t]ATACT	22	1
hsa miR-631 nat as	GCTGAGGTCTGGGCCAGGTCT	21	1
hsa miR-631 2mut as	GCTGAGGT[C-g]TGGGCC[A-t]GGTCT	21	1
hsa miR-33b nat as	GCAATGCAACAGCAATGCAC	20	1
hsa miR-33b 2mut as	GCAATGCAA[C-g]AGCAA[T-a]GCAC	20	1
hsa miR-632 nat as	TCCCACAGGAAGCAGACAC	19	1
hsa miR-632 2mut as	TCC[C-g]ACAGGAAGCAGA[C-g]AC	19	1
hsa miR-633 nat as	TTTATTGTGGTAGATACTATTAG	23	1
hsa miR-633 2mut as	TTTATTGTGG[T-a]AGATA[C-g]TATTAG	23	1
hsa miR-634 nat as	GTCCAAAGTTGGGGTGCTGGTT	22	1
hsa miR-634 2mut as	GTC[C-g]AAAGTT[G-c]GGGTGCTGGTT	22	1

hsa miR-635 nat as	GGACATTGTTTCAGTGCCCAAGT	23	1
hsa miR-635 2mut as	GGA[C-g]ATTGTTT[C-g]AGTGCCCAAGT	23	1
hsa miR-636 nat as	TGCGGGCGGGACGAGCAAGCACA	23	1
hsa miR-636 2mut as	TGCGGG[C-g]GGGACGAGCA[A-t]GCACA	23	1
hsa miR-637 nat as	ACGCAGAGCCCGAAAGCCCCAGT	24	1
hsa miR-637 2mut as	ACGCAG[A-t]GCCCGAAAGCCCC[C-g]AGT	24	1
hsa miR-638 nat as	AGGCCGCCACCCGCCCGCATCCCT	25	1
hsa miR-638 2mut as	AGGCCGCCAC[C-g]CGCCCG[C-g]GATCCCT	25	1
hsa miR-639 nat as	ACAGCGCTCGCAACCGCAGCGAT	23	1
hsa miR-639 2mut as	ACAGCGCTCGCAACCG[C-g]AGC[G-c]AT	23	1
hsa miR-640 nat as	AGAGGCAGGTTCCCTGGATCAT	21	1
hsa miR-640 2mut as	AGAGG[C-g]AGGTTCCCTGGA[T-a]CAT	21	1
hsa miR-641 nat as	GAGGTGACTCTATCCTATGTCTTT	24	1
hsa miR-641 2mut as	GAGGTGA[C-g]TCTATCCTATGT[C-g]TTT	24	1
hsa miR-642 nat as	CAAGACACATTTGGAGAGGGAC	22	1
hsa miR-642 2mut as	CAAGACA[C-g]ATTTGGA[G-c]AGGGAC	22	1
hsa miR-643 nat as	CTACCTGAGCTAGCATAACAAGT	22	1
hsa miR-643 2mut as	CTAC[C-g]TGAGCTAGCATA[C-g]AAGT	22	1
hsa miR-644 nat as	GCTCTAAGAAAGCCACACT	19	1
hsa miR-644 2mut as	GCT[C-g]TAAGAAAGCCA[C-g]ACT	19	1
hsa miR-645 nat as	TCAGCAGTACCAGCCTAGA	19	1
hsa miR-645 2mut as	TC[A-t]GCAGTACCAG[C-g]CTAGA	19	1
hsa miR-646 nat as	GCCTCAGAGGCAGCTGCTT	19	1
hsa miR-646 2mut as	GCCT[C-g]AGAGGC[A-t]GCTGCTT	19	1
hsa miR-647 nat as	GAAGGAAGTGAGTGCAGCCAC	21	1
hsa miR-647 2mut as	GAAGGA[A-t]GTGAGTGCAG[C-g]CAC	21	1
hsa miR-648 nat as	ACCAGTGCCCTGCACACTT	19	1
hsa miR-648 2mut as	AC[C-g]AGTGCCCTGCACA[C-g]TT	19	1
hsa miR-649 nat as	GACTCTTGAACAACACAGGTTT	22	1
hsa miR-649 2mut as	GACTC[T-a]TGAACAACA[C-g]AGGTTT	22	1
hsa miR-650 nat as	GTCCTGAGAGCGCTGCCTCCT	21	1
hsa miR-650 2mut as	GT[C-g]CTGAGAG[C-g]GCTGCCTCCT	21	1
hsa miR-651 nat as	CAAAAGTCAAGCTTATCCTAAA	22	1
hsa miR-651 2mut as	CAAAAGTCAAG[C-g]TTATCC[T-a]AAA	22	1
hsa miR-652 nat as	CACAACCCTAGTGGCGCCATT	21	1
hsa miR-652 2mut as	CACAAC[C-g]CTAG[T-a]GGCGCCATT	21	1
hsa miR-548d-5p nat as	GGCAAAAACCACAATTACTTTT	22	1

hsa miR-548d-5p 2mut as	GG[C-g]AAAAACCACAAT[T-a]ACTTTT	22	1
hsa miR-548d-3p nat as	GCAAAAGAAACTGTGGTTTTTG	22	1
hsa miR-548d-3p 2mut as	GCAAAA[G-c]AAA[C-g]TGTGGTTTTTG	22	1
hsa miR-661 nat as	ACGCGCAGGCCAGAGACCCAGGCA	24	1
hsa miR-661 2mut as	ACGCG[C-g]AGGCCAGAGACCCA[G-c]GCA	24	1
hsa miR-662 nat as	CTGCTGGGCCACAACGTGGGA	21	1
hsa miR-662 2mut as	CTGC[T-a]GGG[C-g]CACAACGTGGGA	21	1
hsa miR-663 nat as	GCGGTCCCGCGGCGCCCCGCT	22	1
hsa miR-663 2mut as	GCGGTCCCGCGGCG[C-g]CCC[G-c]CCT	22	1
hsa miR-449b nat as	GCCAGCTAACAACTACTGCCT	22	1
hsa miR-449b 2mut as	GCCAGCTAA[C-g]AAT[A-t]CACTGCCT	22	1
hsa miR-653 nat as	CAGTAGAGATTGTTTCAACAC	21	1
hsa miR-653 2mut as	CAGTAGAGA[T-a]TGTTTCAA[C-g]AC	21	1
hsa miR-654-5p nat as	GCACATGTTCTGCGGCCACCA	22	1
hsa miR-654-5p 2mut as	GCACATGT[T-a]CTGCGGCCCA[C-g]CA	22	1
hsa miR-654-3p nat as	AAGGTGATGGTCAGCAGACATA	22	1
hsa miR-654-3p 2mut as	AAGGTGATGG[T-a]CAGCAGA[C-g]ATA	22	1
hsa miR-655 nat as	AAAGAGGTTAACCATGTATTAT	22	1
hsa miR-655 2mut as	AAAGAGGTTAA[C-g]CAT[G-c]TATTAT	22	1
hsa miR-656 nat as	AGAGGTTGACTGTATAATATT	21	1
hsa miR-656 2mut as	AGAGGTTGA[C-g]TGTAT[A-t]ATATT	21	1
hsa miR-549 nat as	AGAGCTCATCCATAGTTGTCA	21	1
hsa miR-549 2mut as	AGAG[C-g]TCATCC[A-t]TAGTTGTCA	21	1
hsa miR-657 nat as	CCTAGAGAGGGTGAGAACCTGCC	23	1
hsa miR-657 2mut as	CCTAGAGAGGGT[G-c]AGAA[C-g]CTGCC	23	1
hsa miR-658 nat as	ACCAACGGACCTACTTCCCTCCGCC	25	1
hsa miR-658 2mut as	ACCAAC[G-c]GAC[C-g]TACTTCCCTCCGCC	25	1
hsa miR-659 nat as	TGGGGACCCTCCCTGAACCAAG	22	1
hsa miR-659 2mut as	TGGGGA[C-g]CCTCCCTGAAC[C-g]AAG	22	1
hsa miR-660 nat as	CAACTCCGATATGCAATGGGTA	22	1
hsa miR-660 2mut as	CAACTCCGA[T-a]ATG[C-g]AATGGGTA	22	1
hsa miR-421 nat as	GCGCCCAATTAATGTCTGTTGAT	23	1
hsa miR-421 2mut as	GCGCCC[A-t]ATTAATGT[C-g]TGTTGAT	23	1
hsa miR-542-5p nat as	TCTCGTGACATGATGATCCCCGA	23	1
hsa miR-542-5p 2mut as	TCT[C-g]GTGACATGA[T-a]GATCCCCGA	23	1
hsa miR-758 nat as	GGTTAGTGGACCAGGTCACAAA	22	1
hsa miR-758 2mut as	GGTTAGTGGA[C-g]CAGG[T-a]CACAAA	22	1

hsa miR-1264 nat as	AACAGGTGCTCAAATAAGACTTG	23	1
hsa miR-1264 2mut as	AA[C-g]AGGTGC[T-a]CAAATAAGACTTG	23	1
hsa miR-671-5p nat as	CTCCAGCCCCCTCCAGGGCTTCCT	23	1
hsa miR-671-5p 2mut as	CT[C-g]CAGCCCCTCCAGGG[C-g]TTCCT	23	1
hsa miR-671-3p nat as	GGTGGAGCCCTGAGAACCGGA	21	1
hsa miR-671-3p 2mut as	GGTGGAG[C-g]CCTGAGAACC[G-c]GA	21	1
hsa miR-668 nat as	GTAGTGGGCCGAGCCGAGTGACA	23	1
hsa miR-668 2mut as	GTAGTGGG[C-g]CGAGCCGAGTG[A-t]CA	23	1
hsa miR-767-5p nat as	CATGCTCAGACAACCATGGTGCA	23	1
hsa miR-767-5p 2mut as	CATGCT[C-g]AGACAACCATGG[T-a]GCA	23	1
hsa miR-767-3p nat as	AGAAACCATGGGGTATGAGCAGA	23	1
hsa miR-767-3p 2mut as	AGAAACCATGGGG[T-a]ATGAG[C-g]AGA	23	1
hsa miR-1224-5p nat as	CCACCTCCCGAGTCCTCAC	19	1
hsa miR-1224-5p 2mut as	CCAC[C-g]TCCC[G-c]AGTCCTCAC	19	1
hsa miR-1224-3p nat as	CTGAGGAGAGAGGAGGTGGGG	21	1
hsa miR-1224-3p 2mut as	CT[G-c]AGGAGAGAGGAGGT[G-c]GGG	21	1
hsa miR-320b nat as	TTGCCCTCTCAACCCAGCTTTT	22	1
hsa miR-320b 2mut as	TT[G-c]CCCTCTCAAC[C-g]CAGCTTTT	22	1
hsa miR-320c nat as	ACCCTCTCAACCCAGCTTTT	20	1
hsa miR-320c 2mut as	AC[C-g]CTCTC[A-t]ACCCAGCTTTT	20	1
hsa miR-1296 nat as	GGAGATGGAGCCAGGGCCCTAA	22	1
hsa miR-1296 2mut as	GGAGA[T-a]GGAG[C-g]CAGGGCCCTAA	22	1
hsa miR-1468 nat as	CAGCGAAACAGGCAAACGGAG	21	1
hsa miR-1468 2mut as	CAG[C-g]GAAACA[G-c]GCAAACGGAG	21	1
hsa miR-1323 nat as	AGAAAATGCCCTCAGTTTTGA	22	1
hsa miR-1323 2mut as	AGAAAATG[C-g]CCCTCA[G-c]TTTTGA	22	1
hsa miR-1271 nat as	TGAGTGCTTGCTAGGTGCCAAG	22	1
hsa miR-1271 2mut as	TGAGTG[C-g]TTGCTAGGTGC[C-g]AAG	22	1
hsa miR-1301 nat as	GAAGTCACTCCCAGGCAGCTGCAA	24	1
hsa miR-1301 2mut as	GAAGTCACT[C-g]CCAGGC[A-t]GCTGCAA	24	1
hsa miR-454 nat as	ACCCTATAAGCAATATTGCACTA	23	1
hsa miR-454 2mut as	ACCCT[A-t]TAAGCAATATTGCA[C-g]TA	23	1
hsa miR-1185 nat as	AACATACAAAGGGTATCCTCT	21	1
hsa miR-1185 2mut as	AACATAC[A-t]AAGGGTATC[C-g]TCT	21	1
hsa miR-1283 nat as	AGAAAGCGCTTTCTTTGTAGA	22	1
hsa miR-1283 2mut as	AGAAAGCG[C-g]TTTCC[T-a]TTGTAGA	22	1
hsa miR-769-5p nat as	AGCTCAGAACCCAGAGGTCTCA	22	1

hsa miR-769-5p 2mut as	AG[C-g]TCAGAACCCAGAGGTC[T-a]CA	22	1
hsa miR-769-3p nat as	AACCAAGACCCCGGAGATCCAG	23	1
hsa miR-769-3p 2mut as	AACCAAG[A-t]CCCCGGAGATC[C-g]CAG	23	1
hsa miR-766 nat as	GCTGAGGCTGTGGGGCTGGAGT	22	1
hsa miR-766 2mut as	GC[T-a]GAGG[C-g]TGTGGGGCTGGAGT	22	1
hsa miR-802 nat as	ACAAGGATGAATCTTTGTTACTG	23	1
hsa miR-802 2mut as	ACAAGGAT[G-c]AAT[C-g]TTTGTTACTG	23	1
hsa miR-1298 nat as	TACATCTGGACAGCCGAATGAA	22	1
hsa miR-1298 2mut as	TACATCTGGA[C-g]AGCCGAA[T-a]GAA	22	1
hsa miR-2113 nat as	GTGACAGAGCCAAGCACAAAT	21	1
hsa miR-2113 2mut as	GTGACAGAG[C-g]CAAGC[A-t]CAAAT	21	1
hsa miR-744 nat as	TGCTGTTAGCCCTAGCCCCGCA	22	1
hsa miR-744 2mut as	TGCT[G-c]TTAGCCCTAG[C-g]CCCGCA	22	1
hsa miR-216b nat as	TCACATTTGCCTGCAGAGATTT	22	1
hsa miR-216b 2mut as	TCA[C-g]ATTTGCCTGCAG[A-t]GATTT	22	1
hsa miR-760 nat as	TCCCCACAGACCCAGAGCCG	20	1
hsa miR-760 2mut as	TC[C-g]CCACAGACCC[A-t]GAGCCG	20	1
hsa miR-708 nat as	CCCAGCTAGATTGTAAGCTCCTT	23	1
hsa miR-708 2mut as	CC[C-g]AGCTAGATTGTAAGCT[C-g]CTT	23	1
hsa miR-765 nat as	CATCACCTTCCTTCTCCTCCA	21	1
hsa miR-765 2mut as	CAT[C-g]ACCTTCCTTCTC[C-g]TCCA	21	1
hsa miR-770-5p nat as	TGGCCCTGACACGTGGTACTGGA	23	1
hsa miR-770-5p 2mut as	TGGCCC[T-a]GACA[C-g]GTGGTACTGGA	23	1
hsa miR-675 nat as	CACTGTGGGCCCTCTCCGCACCA	23	1
hsa miR-675 2mut as	CACTGTGGG[C-g]CCTCTCCG[C-g]ACCA	23	1
hsa miR-190b nat as	AACCCAATATCAAACATATCA	21	1
hsa miR-190b 2mut as	AACCCAATATCAAA[C-g]ATA[T-a]CA	21	1
hsa miR-874 nat as	TCGGTCCCTCGGGCCAGGGCAG	22	1
hsa miR-874 2mut as	TCGGTCCC[T-a]CGGG[C-g]CAGGGCAG	22	1
hsa miR-147b nat as	TAGCAGAAGCATTTCCGCACAC	22	1
hsa miR-147b 2mut as	TAGCAGAAGC[A-t]TTTCCGCA[C-g]AC	22	1
hsa miR-298 nat as	TGGGAGAACCTCCCTGCTTCTGCT	24	1
hsa miR-298 2mut as	TGGGA[G-c]AACCTCCCTG[C-g]TTCTGCT	24	1
hsa miR-891a nat as	TCAGTGGCTCAGGTTGTTGCA	22	1
hsa miR-891a 2mut as	TCAGTGGCTCAGGTT[C-g]GTT[G-c]CA	22	1
hsa miR-300 nat as	AGAGAGAGTCTGCCCTTGATA	22	1
hsa miR-300 2mut as	AGAGAGAGTCTG[C-g]CCTTG[T-a]ATA	22	1

hsa miR-886-5p nat as	CCGCTTGAGCTAACTCCGACCCG	23	1
hsa miR-886-5p 2mut as	CC[G-c]CTTGAGCTAACTCCGAC[C-g]CG	23	1
hsa miR-886-3p nat as	AAGGGTCAGTAAGCACCCGCG	21	1
hsa miR-886-3p 2mut as	AA[G-c]GGTCAGTAAGCACCC[C-g]GCG	21	1
hsa miR-892a nat as	CTACGCAGAAAGGACACAGTG	21	1
hsa miR-892a 2mut as	CTACGCA[G-c]AAAGGACA[C-g]AGTG	21	1
hsa miR-220b nat as	AAGTGTCAGACACGGTGGTGG	21	1
hsa miR-220b 2mut as	AAGTGTC[A-t]GACAC[G-c]GTGGTGG	21	1
hsa miR-450b-5p nat as	TATTCAGGAACATATTGCAAAA	22	1
hsa miR-450b-5p 2mut as	TATTCAGGAACAT[A-t]TTG[C-g]AAAA	22	1
hsa miR-450b-3p nat as	TATGGATGCAAAATGATCCCAA	22	1
hsa miR-450b-3p 2mut as	TATGGATGCAA[A-t]ATGATCC[C-g]AA	22	1
hsa miR-890 nat as	CAACTGATGCCTTTCCAAGTA	21	1
hsa miR-890 2mut as	CAACTGAT[G-c]CCTTTC[C-g]AAGTA	21	1
hsa miR-891b nat as	TCAATGACTCAGGTAAGTTGCA	22	1
hsa miR-891b 2mut as	TCAATGA[C-g]TCA[G-c]GTAAGTTGCA	22	1
hsa miR-220c nat as	AGTCTTCACAACAGCCCTGTGT	22	1
hsa miR-220c 2mut as	AGTCTT[C-g]ACAACAGCC[C-g]TGTGT	22	1
hsa miR-888 nat as	TGACTGACAGCTTTTTGAGTA	21	1
hsa miR-888 2mut as	TGA[C-g]TGACAGCTTTTT[G-c]AGTA	21	1
hsa miR-892b nat as	TCTACCCAGAAAGGAGCCAGTG	22	1
hsa miR-892b 2mut as	TCTA[C-g]CCAGAAAGGAGCC[A-t]GTG	22	1
hsa miR-541 nat as	AGTCCAGATTCTGTGCCACCA	22	1
hsa miR-541 2mut as	AGTCCAGATTCTG[T-a]GCC[C-g]ACCA	22	1
hsa miR-889 nat as	ACAATGGTTGTCCGATATTAA	21	1
hsa miR-889 2mut as	ACAA[T-a]GGTTGTC[C-g]GATATTAA	21	1
hsa miR-875-5p nat as	CACCTGATAAAACTGAGGTATA	22	1
hsa miR-875-5p 2mut as	CACCTG[A-t]TAAAA[C-g]TGAGGTATA	22	1
hsa miR-875-3p nat as	CACAACCTCAGTGTTCAGG	21	1
hsa miR-875-3p 2mut as	CACA[A-t]CCTCAGTGTTC[C-g]AGG	21	1
hsa miR-876-5p nat as	TGGTGATTCACAAAGAAATCCA	22	1
hsa miR-876-5p 2mut as	TGGTGAT[T-a]TCACAAAGAAAT[C-g]CA	22	1
hsa miR-876-3p nat as	TGAATTACTTTGTAACCACCA	22	1
hsa miR-876-3p 2mut as	TG[A-t]ATTACTTTGTAAC[C-g]CACCA	22	1
hsa miR-873 nat as	AGGAGACTCACAAGTTCCTGC	21	1
hsa miR-873 2mut as	AGGAG[A-t]CTCA[C-g]AAGTTCCTGC	21	1
hsa miR-208b nat as	ACAAACCTTTTGTTCGTCTTAT	22	1

hsa miR-208b 2mut as	ACAAA[C-g]CTTTTGTCGTC[T-a]TAT	22	1
hsa miR-877 nat as	CCCTGCGCCATCTCCTCTAC	20	1
hsa miR-877 2mut as	CCCT[G-c]CGCCATCTC[C-g]TCTAC	20	1
hsa miR-885-5p nat as	AGAGGCAGGGTAGTGTAATGGA	22	1
hsa miR-885-5p 2mut as	AGAGG[C-g]AGGGT[A-t]GTGTAATGGA	22	1
hsa miR-885-3p nat as	TATCCACTACACCCCGCTGCCT	22	1
hsa miR-885-3p 2mut as	TATC[C-g]ACTACACCCCG[C-g]TGCCT	22	1
hsa miR-887 nat as	CCTCGGGATGGCGCCCGTTCAC	22	1
hsa miR-887 2mut as	CCTCGGG[A-t]TGG[C-g]GCCCGTTCAC	22	1
hsa miR-665 nat as	AGGGGCCTCAGCCTCCTGGT	20	1
hsa miR-665 2mut as	AGGGG[C-g]CTC[A-t]GCCTCCTGGT	20	1
hsa miR-301b nat as	GCTTTGACAATATCATTGCACTG	23	1
hsa miR-301b 2mut as	GCTTTGACA[A-t]TAT[C-g]ATTGCACTG	23	1
hsa miR-920 nat as	TACTGCTTCCACAGCTCCCC	20	1
hsa miR-920 2mut as	TACT[G-c]CTTCCACAGCTC[C-g]CC	20	1
hsa miR-921 nat as	GAATCCTGGTTCTGTCCCTCACTAG	25	1
hsa miR-921 2mut as	GAATCCT[G-c]GTTCTGT[C-g]CCTCACTAG	25	1
hsa miR-922 nat as	GACGTAGTCCTATTCTCTGCTGC	23	1
hsa miR-922 2mut as	GACGTA[G-c]TCCTATTCTCTG[C-g]TGC	23	1
hsa miR-924 nat as	GCAAGACATCACAAAGACTCT	20	1
hsa miR-924 2mut as	GCAAGACATCA[C-g]AAGAC[T-a]CT	20	1
hsa miR-509-3-5p nat as	CATGATTGCCACGTCTGCAGTA	22	1
hsa miR-509-3-5p 2mut as	CATGATTGC[C-g]ACGT[C-g]TGCAGTA	22	1
hsa miR-933 nat as	GGGAGAGGTCTCCCTGCGCACA	22	1
hsa miR-933 2mut as	GGGAG[A-t]GGTCTCCCTG[C-g]GCACA	22	1
hsa miR-934 nat as	CCAGTGTCTCCAGTAGTAGACA	22	1
hsa miR-934 2mut as	CCAGTGTCTC[C-g]AGTAG[T-a]AGACA	22	1
hsa miR-935 nat as	GCGGTAGCGGAAGCGGTAAGTGG	23	1
hsa miR-935 2mut as	GCGGTAGCGGAAGC[G-c]GTAA[C-g]TGG	23	1
hsa miR-936 nat as	CTGCGATTCCCTCTACTGT	22	1
hsa miR-936 2mut as	CT[G-c]CGATT[C-g]TCCCTCTACTGT	22	1
hsa miR-937 nat as	GGCAGAGAGTCAGAGCGCGGAT	22	1
hsa miR-937 2mut as	GG[C-g]AGAGAGTCAGAGCGCG[G-c]AT	22	1
hsa miR-938 nat as	ACTGGGTTACCTTTAAGGGCA	22	1
hsa miR-938 2mut as	ACTGGGTTCA[C-g]CTT[T-a]AAGGGCA	22	1
hsa miR-939 nat as	CACCCCCAGAGCCTCAGCTCCCCA	24	1
hsa miR-939 2mut as	CA[C-g]CCCCAGAGCCTCAGCTCC[C-g]CA	24	1

hsa miR-940 nat as	GGGGAGCGGGGGCCCTGCCTT	21	1
hsa miR-940 2mut as	GGGGAGC[G-c]GGGGC[C-g]CTGCCTT	21	1
hsa miR-941 nat as	GCACATGTGCACACAGCCGGGTG	23	1
hsa miR-941 2mut as	GCACATGTG[C-g]ACACAGCC[G-c]GGTG	23	1
hsa miR-942 nat as	CACATGGCCAAAACAGAGAAGA	22	1
hsa miR-942 2mut as	CA[C-g]ATGGCCAAAACAGAG[A-t]AGA	22	1
hsa miR-943 nat as	CTGGAGGACGGCAACAGTCAG	21	1
hsa miR-943 2mut as	CTGG[A-t]GGACGG[C-g]AACAGTCAG	21	1
hsa miR-944 nat as	CTCATCCGATGTACAATAATTT	22	1
hsa miR-944 2mut as	CTCATCCGATGTA[C-g]AAT[A-t]ATTT	22	1
hsa miR-297 nat as	CATGCACATGCACACATACAT	21	1
hsa miR-297 2mut as	CATGCA[C-g]ATGCACAC[A-t]TACAT	21	1
hsa miR-1178 nat as	CTAGGGAAGAACAGTGAGCAA	21	1
hsa miR-1178 2mut as	CTAGGGA[A-t]GAACAGTGAG[C-g]AA	21	1
hsa miR-1179 nat as	CCAACCAATGAAAGAATGCTT	21	1
hsa miR-1179 2mut as	CAA[C-g]CAATGAAAGAATG[C-g]TT	21	1
hsa miR-1180 nat as	ACACACCCACGCGAGCCGAAA	22	1
hsa miR-1180 2mut as	ACACACCCA[C-g]GCGAGC[C-g]GGAAA	22	1
hsa miR-1181 nat as	CGGCTCGGGTGGCGGCGACGG	21	1
hsa miR-1181 2mut as	CGGCT[C-g]GGGTGG[C-g]GGCGACGG	21	1
hsa miR-1182 nat as	GTCACATCCCTCCCAAGACCCTC	23	1
hsa miR-1182 2mut as	GTCACATCCCTCC[C-g]AAGACC[C-g]TC	23	1
hsa miR-1183 nat as	TGCCCACTCTCACCATCACCTACAGTG	27	1
hsa miR-1183 2mut as	TGCCCACTCTCA[C-g]CATCA[C-g]CTACAGTG	27	1
hsa miR-1184 nat as	GGAAGCCATCAAGTCGCTGCAGG	23	1
hsa miR-1184 2mut as	GGAAGC[C-g]ATCAAGT[C-g]GCTGCAGG	23	1
hsa miR-1197 nat as	AGAAGTAGACCATGTGTCCTA	21	1
hsa miR-1197 2mut as	AGAAGTAGACCAT[G-c]TGTC[C-g]TA	21	1
ptr miR-1224-5p nat as	ACCCTCCACCTCCCGAGTCCTCAC	24	1
ptr miR-1224-5p 2mut as	ACCC[T-a]CCACCTCC[C-g]GAGTCCTCAC	24	1
hsa miR-1225-5p nat as	CCCCCACTGGGCCGTACCCAC	22	1
hsa miR-1225-5p 2mut as	CCCC[C-g]CACTGGG[C-g]CGTACCCAC	22	1
hsa miR-1225-3p nat as	CTGGGGGCGGCACAGGGGCTCA	22	1
hsa miR-1225-3p 2mut as	CTGGGGGC[G-c]GCACAGGGG[C-g]TCA	22	1
mml miR-1225-5p nat as	CCCCCACTGGGCCGTACCCAC	21	1
mml miR-1225-5p 2mut as	CCCCAC[T-a]GGG[C-g]CGTACCCAC	21	1
mml miR-1225-3p nat as	CTGGGGGCGGCACAGGGGCTCAG	23	1

mml miR-1225-3p 2mut as	CTG[G-c]GGGCGGCACAGGGG[C-g]TCAG	23	1
hsa miR-1226 nat as	CTAGGGAACACAGGGCTGGTGA	22	1
hsa miR-1226 2mut as	CTAG[G-c]GAACACAGGG[C-g]TGGTGA	22	1
hsa miR-1227 nat as	CTGGGGAAAAGGGTGGCACG	20	1
hsa miR-1227 2mut as	CTGGG[G-c]AAAAGGGTGG[C-g]ACG	20	1
mml miR-1227 nat as	CCACCACCGCCTGGCCCCAC	20	1
mml miR-1227 2mut as	CCACCA[C-g]CGCC[T-a]GGCCCCAC	20	1
hsa miR-1228 nat as	GGGGGGCGAGGCAGGTGTGA	20	1
hsa miR-1228 2mut as	GG[G-c]GGG[C-g]GAGGCAGGTGTGA	20	1
hsa miR-1229 nat as	CTGTGGGAGGGCAGTGGTGAGAG	23	1
hsa miR-1229 2mut as	CTGTGG[G-c]AGGG[C-g]AGTGGTGAGAG	23	1
mml miR-1230 nat as	TCCGAGATGCCCCACCCAC	20	1
mml miR-1230 2mut as	TC[C-g]GAGATG[C-g]CCCCACCCAC	20	1
hsa miR-1231 nat as	GCAGCTGTCCGCCAGACAC	20	1
hsa miR-1231 2mut as	GC[A-t]GCTGTCCGCCAGA[C-g]AC	20	1
mml miR-1232 nat as	CTGCGGGGTGGTTCGGGGTCAG	21	1
mml miR-1232 2mut as	CTGCGGGGTGGT[C-g]GGGGT[C-g]AG	21	1
hsa miR-1233 nat as	CTGCGGGAGGACAGGGCTCA	20	1
hsa miR-1233 2mut as	CTG[C-g]GGGAGGACAG[G-c]GCTCA	20	1
hsa miR-1234 nat as	GTGGGGTGGGTGGTCAGGCCGA	22	1
hsa miR-1234 2mut as	GTGGGGTGGGTGGT[C-g]GGC[C-g]GA	22	1
mml miR-1235 nat as	CTGGGGGACGGTGCAGTTAGA	21	1
mml miR-1235 2mut as	CTGGGGGA[C-g]GGTGC[G-c]GTTAGA	21	1
hsa miR-1236 nat as	CTGGAGAGACAAGGGGAAGAGG	22	1
hsa miR-1236 2mut as	CT[G-c]GAGAGA[C-g]AAGGGGAAGAGG	22	1
hsa miR-1237 nat as	CTGGGGGACGGAGCAGAAGGA	21	1
hsa miR-1237 2mut as	CT[G-c]GGGGA[C-g]GGAGCAGAAGGA	21	1
hsa miR-1238 nat as	GGGGCAGACAGACGAGGAAG	20	1
hsa miR-1238 2mut as	GGGG[C-g]AGACAGACGA[G-c]GAAG	20	1
mml miR-1239 nat as	CTAGGCCAGGCAGAATGGGGAA	22	1
mml miR-1239 2mut as	CTA[G-c]GCCAGG[C-g]AGAATGGGGAA	22	1
mml miR-1240 nat as	AGTGGGATCAGGGTCATGGTGA	22	1
mml miR-1240 2mut as	AGTGGGA[T-a]CAGGGT[C-g]ATGGTGA	22	1
mml miR-1241 nat as	CTGGAAGGCACAGAGAGGTGAG	22	1
mml miR-1241 2mut as	CTGGAAGG[C-g]ACAGA[G-c]AGGTGAG	22	1
hsa miR-1200 nat as	GAGGCTCAGAATGGCTCAGGAG	22	1
hsa miR-1200 2mut as	GAGGCT[C-g]AGAATGGCT[C-g]AGGAG	22	1

hsa miR-1201 nat as	TCAGAGCATGTGTTTAATCAGGCT	24	1
hsa miR-1201 2mut as	TCAGAG[C-g]ATGTGTTTAATCA[G-c]GCT	24	1
hsa miR-1202 nat as	CTCCCCACTGCAGCTGGCAC	21	1
hsa miR-1202 2mut as	CTCC[C-g]CCACTGC[A-t]GCTGGCAC	21	1
hsa miR-1203 nat as	GAGCTGCATCCTGGCTCCGGG	21	1
hsa miR-1203 2mut as	GAGCTGCATC[C-g]TGGCTCC[G-c]GG	21	1
hsa miR-663b nat as	CCTCAGGCACGGCCGGGCCACC	22	1
hsa miR-663b 2mut as	CCTCAGGCACGGC[C-g]GGGCC[A-t]CC	22	1
hsa miR-1204 nat as	ATAATGGAGACCAGGCCACGA	21	1
hsa miR-1204 2mut as	ATAATGGAGA[C-g]CAGGC[C-g]ACGA	21	1
hsa miR-1205 nat as	CTCAAAGCAAACCCTGCAGA	20	1
hsa miR-1205 2mut as	CTCAAAGCA[A-t]ACC[C-g]TGCAGA	20	1
hsa miR-1206 nat as	GCTTAAACATCTACATGAACA	21	1
hsa miR-1206 2mut as	GCTTAAA[C-g]ATCT[A-t]CATGAACA	21	1
hsa miR-1207-5p nat as	CCCCTCCAGCCTCCCTGCCA	21	1
hsa miR-1207-5p 2mut as	CC[C-g]CTCCC[A-t]GCCTCCCTGCCA	21	1
hsa miR-1207-3p nat as	GAAATGAGGGCCAGCTGA	18	1
hsa miR-1207-3p 2mut as	GAAA[T-a]GAGGG[C-g]CAGCTGA	18	1
hsa miR-1208 nat as	TCCGCCTGTCTGAACAGTGA	20	1
hsa miR-1208 2mut as	TCCGCCTGT[C-g]TGAACAG[T-a]GA	20	1
hsa miR-548e nat as	TGCAAAAGTAGTCTCAGTTTTT	22	1
hsa miR-548e 2mut as	TG[C-g]AAAAGTAGTCTCAG[T-a]TTTT	22	1
hsa miR-548j nat as	ACCAAAGACCGCAATTACTTTT	22	1
hsa miR-548j 2mut as	ACCAAAGAC[C-g]GCA[A-t]TTACTTTT	22	1
hsa miR-1285 nat as	AGGTCTCACTTTGTTGCCAGA	22	1
hsa miR-1285 2mut as	AGGTCT[C-g]ACTTTGTTGCC[C-g]AGA	22	1
hsa miR-1286 nat as	AGGGCTCATCTTGGTCCTGCA	21	1
hsa miR-1286 2mut as	AGGG[C-g]TCATCTTGGTCCT[G-c]CA	21	1
hsa miR-1287 nat as	GACTCGAACCCTGATCCAGCA	22	1
hsa miR-1287 2mut as	GA[C-g]TCGAA[C-g]CACTGATCCAGCA	22	1
hsa miR-1289 nat as	AAAATGCAGATTCTGGACTCCA	23	1
hsa miR-1289 2mut as	AAA[A-t]TGCAGATT[C-g]TGGACTCCA	23	1
hsa miR-1290 nat as	TCCCTGATCCAAAAATCCA	19	1
hsa miR-1290 2mut as	TCCCTGATC[C-g]AAAAAT[C-g]CA	19	1
hsa miR-1291 nat as	ACTGCTGGTCTTCAGTCAGGGCCA	24	1
hsa miR-1291 2mut as	ACTGCTGGTCT[T-a]CAGT[C-g]AGGGCCA	24	1
hsa miR-548k nat as	AGCAAAATCCGCAAGTACTTTT	22	1

hsa miR-548k 2mut as	AGCAAA[A-t]TCCGCAAGTA[C-g]TTTT	22	1
hsa miR-1293 nat as	GCACAAATCTCCAGACCACCCA	22	1
hsa miR-1293 2mut as	GCACAAAT[C-g]TCCAGACC[A-t]CCCA	22	1
hsa miR-1294 nat as	AGACAACAATGCCAACCTCACA	22	1
hsa miR-1294 2mut as	AGACAA[C-g]AATGC[C-g]AACCTCACA	22	1
hsa miR-1295 nat as	TCACCCAGATCTGCGGCCTAA	21	1
hsa miR-1295 2mut as	TCACCC[A-t]GAT[C-g]TGCGGCCTAA	21	1
hsa miR-1297 nat as	CACCTGAATTACTTGAA	17	1
hsa miR-1297 2mut as	CACCTGA[A-t]TTA[C-g]TTGAA	17	1
hsa miR-1299 nat as	TCCCTCACACAGAATTCCAGAA	22	1
hsa miR-1299 2mut as	TCCCTCACA[C-g]AGAA[T-a]TCCAGAA	22	1
hsa miR-1300 nat as	CAGCAGCCTCCTTCTCAA	18	1
hsa miR-1300 2mut as	CAGC[A-t]GCCTCCTT[C-g]TCAA	18	1
hsa miR-548l nat as	GACAAAACCCGCAAATACTTTT	22	1
hsa miR-548l 2mut as	GAC[A-t]AAA[C-g]CCGCAAATACTTTT	22	1
hsa miR-1302 nat as	TTTAGCATAAGTATGTCCCAA	21	1
hsa miR-1302 2mut as	TTTAGCATA[A-t]GTATGTCC[C-g]AA	21	1
hsa miR-1303 nat as	AGAGCAAGACCCCGTCTCTAAA	22	1
hsa miR-1303 2mut as	AGAG[C-g]AAGACCCCGTCTCT[A-t]AA	22	1
hsa miR-1304 nat as	CACATCTCACTGTAGCCTCAA	22	1
hsa miR-1304 2mut as	CA[C-g]ATCTCACTGTAGCCTC[A-t]AA	22	1
hsa miR-1305 nat as	TCTCTCCATTAGAGTTGAAAA	22	1
hsa miR-1305 2mut as	TCTCTCC[C-g]ATTAGAGTTGA[A-t]AA	22	1
hsa miR-1243 nat as	CACTCCTATAATTGATCCAGTT	22	1
hsa miR-1243 2mut as	CACTC[C-g]TATA[A-t]TTGATCCAGTT	22	1
hsa miR-548f nat as	AAAAGTAATTACAGTTTTT	19	1
hsa miR-548f 2mut as	AAAAGT[A-t]ATTA[C-g]AGTTTTT	19	1
hsa miR-1244 nat as	AACCATCTCATACAAACCAACTACTT	26	1
hsa miR-1244 2mut as	AAC[C-g]ATCTCATA[C-g]AAACCAACTACTT	26	1
hsa miR-1245 nat as	ATGTAGGCCTTTAGATCACTT	21	1
hsa miR-1245 2mut as	ATGTAGGC[C-g]TTAGATC[A-t]CTT	21	1
hsa miR-1246 nat as	CCTGCTCCAAAAATCCATT	19	1
hsa miR-1246 2mut as	CCTGCTCCAA[A-t]AAT[C-g]CATT	19	1
hsa miR-1247 nat as	TCCGGGGACGAACGGGACGGGT	22	1
hsa miR-1247 2mut as	TCCGG[G-c]GACGAA[C-g]GGGACGGGT	22	1
hsa miR-1248 nat as	TTTAGCACAGTGCTTATACAAGAAGGT	27	1
hsa miR-1248 2mut as	TTTAGCACAGTGCT[T-a]ATA[C-g]AAGAAGGT	27	1

hsa miR-1249 nat as	TGAAGAAGGGGGGGAAGGGCGT	22	1
hsa miR-1249 2mut as	TGAAGAAG[G-c]GGGGGAAGGG[C-g]GT	22	1
hsa miR-1250 nat as	AAAGGCCACATCCAGCACCGT	21	1
hsa miR-1250 2mut as	AAAGGCCACA[T-a]CCAGCA[C-g]CGT	21	1
hsa miR-1251 nat as	AGCGCCTTTGGCAGCTAGAGT	21	1
hsa miR-1251 2mut as	AGCG[C-g]CTTTGGCAG[C-g]TAGAGT	21	1
hsa miR-1253 nat as	TGCAGGCTGATCTTCTTCTCT	21	1
hsa miR-1253 2mut as	TGCAGGCTGAT[C-g]TTCT[T-a]CTCT	21	1
hsa miR-1254 nat as	ACTGCAGGCTCCAGCTTCCAGGCT	24	1
hsa miR-1254 2mut as	ACT[G-c]CAGGCTC[C-g]AGCTTCCAGGCT	24	1
hsa miR-1255a nat as	AATCTACTTTCTTTGCTCATCCT	23	1
hsa miR-1255a 2mut as	AATCTA[C-g]TTT[C-g]TTTGCTCATCCT	23	1
hsa miR-1256 nat as	AGCTAGTGAGAAGTCAATGCCT	22	1
hsa miR-1256 2mut as	AGCTAGT[G-c]AGAAGTCAATG[C-g]CT	22	1
hsa miR-1257 nat as	GGTCAGAACCCATCATTCACT	21	1
hsa miR-1257 2mut as	GG[T-a]CAGAACCCATCATT[C-g]ACT	21	1
hsa miR-1258 nat as	TTCCACGACCTAATCCTAACT	21	1
hsa miR-1258 2mut as	TTC[C-g]ACGACCTAA[T-a]CCTAACT	21	1
hsa miR-1259 nat as	AAAAGCTAAGTCATCATATAT	21	1
hsa miR-1259 2mut as	AAAAGCTAAGT[C-g]ATC[A-t]TATAT	21	1
hsa miR-1260 nat as	TGGTGGCAGAGGTGGGAT	18	1
hsa miR-1260 2mut as	TGGTGG[C-g]AGAGGTGG[G-c]AT	18	1
hsa miR-548g nat as	GTACAAAAGTAATTACAGTTTT	22	1
hsa miR-548g 2mut as	GTA[C-g]AAAAGTAA[T-a]TACAGTTTT	22	1
hsa miR-1261 nat as	AAGCCAAAGCCTTATCCAT	19	1
hsa miR-1261 2mut as	AAGC[C-g]AAAGCCTTATC[C-g]AT	19	1
hsa miR-1262 nat as	ATCCTTCTACAAATTCACCCAT	22	1
hsa miR-1262 2mut as	ATCCTTCTACAA[A-t]TTCA[C-g]CCAT	22	1
hsa miR-1263 nat as	ACTCAGTATGCCAGGGTACCAT	22	1
hsa miR-1263 2mut as	ACTCAGTATGC[C-g]AGGG[T-a]ACCAT	22	1
hsa miR-548n nat as	ACAAAATCCACAATTACTTTTG	22	1
hsa miR-548n 2mut as	ACAAAAT[C-g]CAC[A-t]ATTACTTTTG	22	1
hsa miR-548m nat as	CAAAAACCACAAATACCTTTG	21	1
hsa miR-548m 2mut as	CAAAA[C-g]CACA[A-t]ATACCTTTG	21	1
hsa miR-1265 nat as	AACAACACTTGACCACATCCTG	22	1
hsa miR-1265 2mut as	AACAACACTTGA[C-g]CACATC[C-g]TG	22	1
hsa miR-548o nat as	GCAAAAAGTAAGTGCAGTTTTGG	22	1

hsa miR-548o 2mut as	GCAAAAG[T-a]AACTG[C-g]AGTTTTGG	22	1
hsa miR-1266 nat as	AGCCCTGTTCTACAGCCCTGAGG	23	1
hsa miR-1266 2mut as	AG[C-g]CCTGTTCTACAGCCCT[G-c]AGG	23	1
hsa miR-1267 nat as	TGGGGATTACACTTCAACAGG	21	1
hsa miR-1267 2mut as	TGGGG[A-t]TTA[C-g]ACTTCAACAGG	21	1
hsa miR-1268 nat as	CCCCACCACCACGCCG	18	1
hsa miR-1268 2mut as	CCCCACC[A-t]CCACG[C-g]CCG	18	1
hsa miR-1269 nat as	CCAGTAGCACGGCTCAGTCCAG	22	1
hsa miR-1269 2mut as	CCAG[T-a]AGCACGG[C-g]TCAGTCCAG	22	1
hsa miR-1270 nat as	ACACAGCTCTTCCATATCTCCAG	23	1
hsa miR-1270 2mut as	ACACAG[C-g]TCTTCCAT[A-t]TCTCCAG	23	1
hsa miR-1272 nat as	TTTCAGAATTTGCTGCCATCATCATC	26	1
hsa miR-1272 2mut as	TTTCAGAAT[T-a]TGCTGCCATCAT[C-g]ATC	26	1
hsa miR-1273 nat as	AAGAAAGAGTCTTGCTTTGTCGCC	25	1
hsa miR-1273 2mut as	AAGAAAGAGT[C-g]TTGCTTTGTCG[C-g]CC	25	1
hsa miR-1274a nat as	TGGCGCCTGAACAGGGAC	18	1
hsa miR-1274a 2mut as	TGGCG[C-g]CTGAA[C-g]AGGGAC	18	1
hsa miR-548h nat as	GACAAAACCGCGATTACTTTT	22	1
hsa miR-548h 2mut as	GACAAAAA[C-g]CGCGATTAC[T-a]TTT	22	1
hsa miR-1275 nat as	GACAGCCTCTCCCCAC	17	1
hsa miR-1275 2mut as	GACAG[C-g]CTC[T-a]CCCCAC	17	1
hsa miR-1276 nat as	TGTCTCCACAGGGCTCTTTA	20	1
hsa miR-1276 2mut as	TGT[C-g]TCCA[C-g]AGGGCTCTTTA	20	1
hsa miR-302e nat as	AAGCATGGAAGCACTTA	17	1
hsa miR-302e 2mut as	AAGCATGG[A-t]AGCA[C-g]TTA	17	1
hsa miR-302f nat as	AAACATGGAAGCAATTA	17	1
hsa miR-302f 2mut as	AAA[C-g]ATGGA[A-t]GCAATTA	17	1
hsa miR-1277 nat as	AAAATACATATATCTACGTA	22	1
hsa miR-1277 2mut as	AAAATACA[T-a]ATATATCTA[C-g]GTA	22	1
hsa miR-548p nat as	AAAGTAACTGCAGTTTTTGCTA	22	1
hsa miR-548p 2mut as	AAAGTAA[C-g]TGCAGTTTTTG[C-g]TA	22	1
hsa miR-548i nat as	GGCAAAATCCGCAATTACTTTT	22	1
hsa miR-548i 2mut as	GG[C-g]AAAATCCGCAATTAC[T-a]TTT	22	1
hsa miR-1278 nat as	ATAGATGATATGCACAGTACTA	22	1
hsa miR-1278 2mut as	ATAGATGATATGCA[C-g]AGT[A-t]CTA	22	1
hsa miR-1279 nat as	AGAAAGAAGCAATATGA	17	1
hsa miR-1279 2mut as	AGAAAGAAG[C-g]AAT[A-t]TGA	17	1

hsa miR-1274b nat as	TGGCGCCCGAACAGGGA	17	1
hsa miR-1274b 2mut as	TGGCGC[C-g]CGAA[C-g]AGGGA	17	1
hsa miR-1281 nat as	GGGAGAGGAGGAGGCGA	17	1
hsa miR-1281 2mut as	GGGAGAGG[A-t]GGAGG[C-g]GA	17	1
hsa miR-1282 nat as	AAGCAGAAAAAGGCCAACGA	20	1
hsa miR-1282 2mut as	AAGCA[G-c]AAAAAGG[C-g]AAACGA	20	1
hsa miR-1284 nat as	GAAAAGCCAGGGTCTGTATAGA	22	1
hsa miR-1284 2mut as	GAAAAGC[C-g]AGGGTCT[G-c]TATAGA	22	1
hsa miR-1288 nat as	TCTCCAGATCAGGGCAGTCCA	21	1
hsa miR-1288 2mut as	TCT[C-g]CAGATCAGGG[C-g]AGTCCA	21	1
hsa miR-1292 nat as	CAGCGTCTGCCGGAACCCGTTCCCA	25	1
hsa miR-1292 2mut as	CAGC[G-c]TCTG[C-g]CGGAACCCGTTCCCA	25	1
hsa miR-1252 nat as	TAAATGAATTCAATTTCTTCT	22	1
hsa miR-1252 2mut as	TAAAT[G-c]AATT[C-g]AATTTCTTCT	22	1
hsa miR-1255b nat as	AACCACTTTCTTTGCTCATCCG	22	1
hsa miR-1255b 2mut as	AACCA[C-g]TTTCTTTGCT[C-g]ATCCG	22	1
hsa miR-1280 nat as	GGGTGGCAGCGGTGGGA	17	1
hsa miR-1280 2mut as	GGGTGGCAG[C-g]GGTG[G-c]GA	17	1
hsa miR-1308 nat as	CCACTGAACCACCCATGC	18	1
hsa miR-1308 2mut as	CC[A-t]CTGAA[C-g]CACCCATGC	18	1
hsa miR-664 nat as	TGTAGGCTGGGGATAAATGAATA	23	1
hsa miR-664 2mut as	TGTAGG[C-g]TGGGGAT[A-t]AATGAATA	23	1
hsa miR-1306 nat as	CACCACCAGAGCCAACGT	18	1
hsa miR-1306 2mut as	CACCACC[A-t]GAGC[C-g]AACGT	18	1
hsa miR-1307 nat as	CACGACCGACGCCACGCCGAGT	22	1
hsa miR-1307 2mut as	CACGACCGACG[C-g]CACG[C-g]CGAGT	22	1
age miR-506 nat as	TCTACTCAGAAGGGCGCCATT	21	1
age miR-506 2mut as	TCTA[C-g]TCAG[A-t]AGGGCGCCATT	21	1
age miR-507 nat as	TTCACTCTAAAAAGTGCCAAA	21	1
age miR-507 2mut as	TTCACT[C-g]TAAA[A-t]AGTGCCAAA	21	1
age miR-508 nat as	TCTACTCAAAAAGGTGACAATCG	23	1
age miR-508 2mut as	TCTAC[T-a]CAAAAAGGTGA[C-g]AATCG	23	1
age miR-509a nat as	TCTACCTGCAGACGTGTCAATCA	23	1
age miR-509a 2mut as	TCTA[C-g]CTGCAGACGTG[T-a]CAATCA	23	1
age miR-509b nat as	TCTATCTGCAGACGTGTCAATCA	23	1
age miR-509b 2mut as	TCT[A-t]TCTGCAGA[C-g]GTGTCAATCA	23	1
age miR-510 nat as	CGTGATTGCTACTCTCTGGAGTA	23	1

age miR-510 2mut as	CGTGATT[G-c]CTACTCT[C-g]TGGAGTA	23	1
age miR-513b nat as	ATGAATGACAGCTCCTTGTGAA	22	1
age miR-513b 2mut as	ATGAATGACAG[C-g]TCC[T-a]TGTGAA	22	1
age miR-513c nat as	ATGAATGACACCTTCTTGAGAA	22	1
age miR-513c 2mut as	ATGAATG[A-t]CACCTT[C-g]TTGAGAA	22	1
age miR-513a nat as	ATGAATGACACCTCCTTGTGAA	22	1
age miR-513a 2mut as	ATGAATGACAC[C-g]TCCT[T-a]GTGAA	22	1
age miR-513d nat as	ATAAATGACACCTCGTTGTGAA	22	1
age miR-513d 2mut as	ATAAATGA[C-g]ACC[T-a]CGTTGTGAA	22	1
age miR-513e nat as	ATGAATGGCACCTTCTTGTA	21	1
age miR-513e 2mut as	ATGA[A-t]TGGCACCTT[C-g]TTGTAA	21	1
age miR-514 nat as	CTACTCACAAAAGTGTCAAT	20	1
age miR-514 2mut as	CTACTCA[C-g]AAAAGTG[T-a]CAAT	20	1
ssy miR-508 nat as	TCTACTCAAAAAGGGCTACAATCA	23	1
ssy miR-508 2mut as	TCTA[C-g]TCAAAAAGGGCT[A-t]CAATCA	23	1
ssy miR-509a nat as	TCTACCCACAGACGTACCAATCA	23	1
ssy miR-509a 2mut as	TCTACCCA[C-g]AGACGTAC[C-g]AATCA	23	1
ssy miR-509b nat as	TCTACCTACAGACGTACCAATCA	23	1
ssy miR-509b 2mut as	TCT[A-t]CCTA[C-g]AGACGTACCAATCA	23	1
ssy miR-510 nat as	TGTGATTGCCACTCTCCGGAGTA	23	1
ssy miR-510 2mut as	TGTGATTGCCA[C-g]TCTCCGG[A-t]GTA	23	1
ssy miR-513c nat as	GTAATGACACCTCCTTGGGAA	22	1
ssy miR-513c 2mut as	GTAATGA[C-g]ACCTC[C-g]TTGGGAA	22	1
hsa miR-513b nat as	ATAAATGACACCTCCTTGTGAA	22	1
hsa miR-513b 2mut as	ATAAATGAC[A-t]CCT[C-g]CTTGTGAA	22	1
ptr miR-513a nat as	ATAAATGACACCTCCCTGTGAA	22	1
ptr miR-513a 2mut as	AT[A-t]AATGACACCTCC[C-g]TGTGAA	22	1
ptr miR-514 nat as	CTACTCACAGAAGTGTCAAT	20	1
ptr miR-514 2mut as	CTACTCA[C-g]AGAAGTG[T-a]CAAT	20	1
mml miR-508 nat as	TCTACTCAAAAAGGCGACAATCA	23	1
mml miR-508 2mut as	TCTA[C-g]TCAAAAAGGCG[A-t]CAATCA	23	1
mml miR-509 nat as	TCTACCCACAGACATACCAATCA	23	1
mml miR-509 2mut as	TCTACCCACAG[A-t]CATA[C-g]CAATCA	23	1
ptr miR-508 nat as	TCTACTCAAAAAGGCTACAATCA	23	1
ptr miR-508 2mut as	TCTACT[C-g]AAAA[A-t]GGCTACAATCA	23	1
ptr miR-509a nat as	TCTATCCACAGACGTACCAATCA	23	1
ptr miR-509a 2mut as	TCTATC[C-g]ACAGACGTA[C-g]CAATCA	23	1

ptr miR-509b nat as	TCTACTCACAGACGTACCAATCA	23	1
ptr miR-509b 2mut as	TC[T-a]ACTCACAGA[C-g]GTACCAATCA	23	1
ptr miR-510 nat as	TGTGATTGCCACTCTCCTGGGTA	23	1
ptr miR-510 2mut as	TGTGATTGCCACT[C-g]TCCT[G-c]GGTA	23	1
ptr miR-513b nat as	ATAAATGACATCTCCTTGTA	22	1
ptr miR-513b 2mut as	AT[A-t]AATGACATCTC[C-g]TTGTA	22	1
pbi miR-508 nat as	TCTACTCAAAAAGGTGACAATCA	23	1
pbi miR-508 2mut as	TCTAC[T-a]CAAAAAGGTGA[C-g]AATCA	23	1
pbi miR-509 nat as	TCTACCACAGACGTATCAATCA	23	1
pbi miR-509 2mut as	TCTACC[C-g]ACAGACGTATCAA[T-a]CA	23	1
pbi miR-513c nat as	ACAAATGACACCTCCCTGTGA	22	1
pbi miR-513c 2mut as	ACAAATGACA[C-g]CTCCC[T-a]GTGA	22	1
hsa miR-513c nat as	ATAAACGACACCTCCTTGAGAA	22	1
hsa miR-513c 2mut as	ATA[A-t]ACGACA[C-g]CTCCTTGAGAA	22	1
hsa miR-1321 nat as	ATCACATTCACCTCCCTG	18	1
hsa miR-1321 2mut as	ATC[A-t]CATTACCT[C-g]CCTG	18	1
hsa miR-1322 nat as	CAGCATCAGCAGCATCATC	19	1
hsa miR-1322 2mut as	CAGCA[T-a]CAG[C-g]AGCATCATC	19	1
hsa miR-720 nat as	TGGAGGCCCCAGCGAGA	17	1
hsa miR-720 2mut as	TG[G-c]AGG[C-g]CCCAGCGAGA	17	1
hsa miR-1324 nat as	GAAAGTGCATAGAATTCTGTCTGG	24	1
hsa miR-1324 2mut as	GAAAGT[G-c]CATAGAATTCTGT[C-g]TGG	24	1
hsa miR-1469 nat as	GGAGCCCGCGCCCGCGCCGAG	22	1
hsa miR-1469 2mut as	GGAGCCCGCG[C-g]CCC[G-c]CGCCGAG	22	1
hsa miR-1470 nat as	CGGGGTGCACGGGCGGAGGGC	21	1
hsa miR-1470 2mut as	CGG[G-c]GTGCA[C-g]GGGCGGAGGGC	21	1
hsa miR-1471 nat as	ACACCTGGCTCCACACGCGGGC	22	1
hsa miR-1471 2mut as	ACACC[T-a]GGCTCCACACG[C-g]GGGC	22	1
hsa miR-1537 nat as	ACAACCTGTAAGTACGTTT	22	1
hsa miR-1537 2mut as	ACAACCTGTAA[C-g]TAGA[C-g]GGTTT	22	1
hsa miR-1538 nat as	AGGAACAGCAGCAGCCCGGGCCG	23	1
hsa miR-1538 2mut as	AGGAACAGCAGCAG[C-g]CCG[G-c]GCCG	23	1
hsa miR-1539 nat as	GGGCATCTGGGACGCGCAGGA	21	1
hsa miR-1539 2mut as	GGGCA[T-a]CTGGGACG[C-g]GCAGGA	21	1
hsa miR-103-as nat as	AGCAGCATTGTACAGGGCTATGA	23	1
hsa miR-103-as 2mut as	AGC[A-t]GCATTGTACAGGG[C-g]TATGA	23	1
mml miR-129-3p nat as	ATACTTTTGGGGTAAGGGCTT	22	1

mml miR-129-3p 2mut as	ATA[C-g]TTTTTGGGGTAAGGG[C-g]TT	22	1
mml miR-147a nat as	TAGCAGAAGCATTTCACACAC	22	1
mml miR-147a 2mut as	TAGCAGAAGCATT[T-a]CCACA[C-g]AC	22	1
mml miR-147b nat as	AGCAGAAGCACTCCGCACAC	21	1
mml miR-147b 2mut as	AGCAGAAGC[A-t]CTTCCGCA[C-g]AC	21	1
mml miR-212 nat as	GGCCCTGACTGGAGACTGTTA	21	1
mml miR-212 2mut as	GGCCCTGA[C-g]TGGAGACT[G-c]TTA	21	1
mml miR-217 nat as	TCCAATCAGTTCCTGATGCAGAA	23	1
mml miR-217 2mut as	TCCAATCAGTT[C-g]CTGAT[G-c]CAGAA	23	1
mml miR-220b nat as	AGGTGTCGGACACGGTGGTGG	21	1
mml miR-220b 2mut as	AGGTG[T-a]CGG[A-t]CACGGTGGTGG	21	1
mml miR-220c nat as	AAGGTGTCAGACACAGTGGTGG	22	1
mml miR-220c 2mut as	AAGGTGTC[A-t]GACACAGT[G-c]GTGG	22	1
mml miR-220d nat as	AAGGTGTCAGACACGGTGGTGG	22	1
mml miR-220d 2mut as	AA[G-c]GTGTCAGACAC[G-c]GTGGTGG	22	1
mml miR-297 nat as	ATGCACATGCACACATACAT	20	1
mml miR-297 2mut as	ATGCA[C-g]ATGCACACA[T-a]ACAT	20	1
mml miR-298 nat as	TGGGAGAACCACCCGGCTTCTGCT	24	1
mml miR-298 2mut as	TGGGAG[A-t]ACCACCCGGCTT[C-g]TGCT	24	1
mml miR-345 nat as	GAGCCCTTGACTAGGAGTCAGC	22	1
mml miR-345 2mut as	GAGCCCTT[G-c]ACTAGGAGT[C-g]AGC	22	1
mml miR-371-3p nat as	CACTCAAAACATGGCGGCACTT	23	1
mml miR-371-3p 2mut as	CACTCAAAA[C-g]ATGGCGGCA[C-g]TT	23	1
mml miR-380 nat as	AAGACGTGGACCATATTACATA	22	1
mml miR-380 2mut as	AAGA[C-g]GTGGACCA[T-a]ATTACATA	22	1
mml miR-422a nat as	GCCTTCTGACCCTGAGTCCAGT	22	1
mml miR-422a 2mut as	GCCTTCTGA[C-g]CCTGAGTC[C-g]AGT	22	1
mml miR-511 nat as	TGACTGCAGAGCAAAAGACA	20	1
mml miR-511 2mut as	TGA[C-g]TGCA[G-c]AGCAAAAGACA	20	1
mml miR-512-5p nat as	GAAAGTGCCCCGAGGCTGAGTG	23	1
mml miR-512-5p 2mut as	GAAAGT[G-c]CCCC[C-g]GAGGCTGAGTG	23	1
mml miR-512-3p nat as	GATCTCAGCAATGACAGCACTT	22	1
mml miR-512-3p 2mut as	GATCTCAGCAATG[A-t]CAGCA[C-g]TT	22	1
mml miR-516a-5p nat as	AAAGTGCTTCTTTCCTCGAGAC	22	1
mml miR-516a-5p 2mut as	AAAGTG[C-g]TTCTTTCCTCG[A-t]GAC	22	1
mml miR-516a-3p nat as	ACCCTCGGGAAGGAAACA	18	1
mml miR-516a-3p 2mut as	ACCCT[C-g]GGGAAGGAA[A-t]CA	18	1

mml miR-517b nat as	AACACTCTAAAAGGATGCACGA	22	1
mml miR-517b 2mut as	AACACT[C-g]TAA[A-t]AGGATGCACGA	22	1
mml miR-518a-3p nat as	CCAGCAAAGAGAAGCACTTTC	21	1
mml miR-518a-3p 2mut as	CCAGCAA[A-t]GAGAAGCA[C-g]TTTC	21	1
mml miR-518b nat as	CCTCTAAAGGGGAGCGCTTTG	21	1
mml miR-518b 2mut as	CCT[C-g]TAAAGGGGAGCGCT[T-a]TG	21	1
mml miR-518c nat as	ACTCTCTAAAGAGAAGCGCTTTG	23	1
mml miR-518c 2mut as	ACTCTCTAAAGAGA[A-t]GCG[C-g]TTTG	23	1
mml miR-518d nat as	TCTCTAAAGAGAAGCGCTTTG	21	1
mml miR-518d 2mut as	TCTCTAAAGAGA[A-t]GCG[C-g]TTTG	21	1
mml miR-518f nat as	TCCTCTGAAGGGGAAGCGCTTT	21	1
mml miR-518f 2mut as	TCCT[C-g]TGAAGGG[A-t]AGCGCTTT	21	1
mml miR-519a nat as	GTAACCCTCTAAAAGGAAGCACTTT	25	1
mml miR-519a 2mut as	GTAACCCT[C-g]TAAAAGG[A-t]AGCACTTT	25	1
mml miR-519b nat as	AACCCTCTAAAGGGATGCACGTT	23	1
mml miR-519b 2mut as	AACCCT[C-g]TAAAGGGATG[C-g]ACGTT	23	1
mml miR-519c nat as	ATCCTCTAAAATGATGCACCTTT	22	1
mml miR-519c 2mut as	AT[C-g]CTCTAAA[A-t]TGATGCACCTTT	22	1
mml miR-519d nat as	CACTCTAAAAGGAAGCACTTTG	22	1
mml miR-519d 2mut as	CA[C-g]TCTAAAAGGAAGCA[C-g]TTTG	22	1
mml miR-520c nat as	AACCCTCTAAAAGGAAGCACTTT	23	1
mml miR-520c 2mut as	AACCCTCTAAA[G-c]GAAGCA[C-g]TTT	23	1
mml miR-520d-3p nat as	ACCCAGCAAAGAGAAGCACTTT	22	1
mml miR-520d-3p 2mut as	ACCCAG[C-g]AAAGAGAAGCAC[T-a]TT	22	1
mml miR-520g nat as	ACACTCTGAAGGGAAGCACTTTGT	24	1
mml miR-520g 2mut as	ACACTCTGAAGG[G-c]AAG[C-g]ACTTTGT	24	1
mml miR-520h nat as	ACTCTAAAAGGAAGCACTTTGT	22	1
mml miR-520h 2mut as	AC[T-a]CTAAAAGGAAGCA[C-g]TTTGT	22	1
mml miR-521 nat as	ACACTCAAAGGGAAGTGCGTT	22	1
mml miR-521 2mut as	ACACT[C-g]CAAAGGGAAGTG[C-g]GTT	22	1
mml miR-523a nat as	CCCTCTAAAGGGGAAGCGCATT	21	1
mml miR-523a 2mut as	CCCTC[T-a]AAAGGGAAG[C-g]GCATT	21	1
mml miR-523b nat as	CAGAAAGCGCTTCGCTCTAGAG	22	1
mml miR-523b 2mut as	CAGAAAGCG[C-g]TTCGCTCTA[G-c]AG	22	1
mml miR-523c nat as	CCCTCTAAAGGGATGCACGTT	21	1
mml miR-523c 2mut as	CCCT[C-g]TAAAGGGAT[G-c]CACGTT	21	1
mml miR-548a nat as	GGAAAAGTAATTGCCAGTATTG	22	1

mml miR-548a 2mut as	GG[A-t]AAAGTAATTGC[C-g]AGTATTG	22	1
mml miR-548b nat as	ACAAAAGCAATTGAGTTTTTG	22	1
mml miR-548b 2mut as	ACAAAAG[C-g]AATTGA[G-c]GTTTTTG	22	1
mml miR-548c nat as	GCAGAAGTAATTGCCGTTTTG	22	1
mml miR-548c 2mut as	GCAG[A-t]AGTAATTGC[C-g]GGTTTTG	22	1
mml miR-548d-5p nat as	AAAAGAAATTGTGGTTTTTGCC	22	1
mml miR-548d-5p 2mut as	AAA[A-t]GAA[A-t]TTGTGGTTTTTGCC	22	1
mml miR-548d-3p nat as	GCAAAAGAAATTGTGGTTTTTG	22	1
mml miR-548d-3p 2mut as	GCAAAAGAA[A-t]TTG[T-a]GGTTTTTG	22	1
mml miR-548e nat as	GCAAAAGTAACTGCCGTTTTG	22	1
mml miR-548e 2mut as	GCAAAAGT[A-t]ACTG[C-g]CGGTTTTG	22	1
mml miR-548f nat as	GCAAAAGGAACTGTGGTTTTG	21	1
mml miR-548f 2mut as	GCAAAAGG[A-t]ACTGT[G-c]GTTTTG	21	1
mml miR-549 nat as	TGACAACATGGATGAGCTCT	21	1
mml miR-549 2mut as	TGACAA[C-g]TATGGATG[A-t]GCTCT	21	1
mml miR-552 nat as	TTGTCTAACCAGTCACCCGTT	21	1
mml miR-552 2mut as	TTGTCTAA[C-g]CAGTCACC[C-g]GTT	21	1
mml miR-553 nat as	AAAACAAAACCTCACCTTTTT	21	1
mml miR-553 2mut as	AAAACAAA[A-t]CCTCA[C-g]CTTTTT	21	1
mml miR-556-5p nat as	CTCATATTACAATGAGTTCATC	22	1
mml miR-556-5p 2mut as	CT[C-g]ATATTACAAT[G-c]AGTTCATC	22	1
mml miR-556-3p nat as	AAAGATCAGCTAATTGTAATAT	22	1
mml miR-556-3p 2mut as	AAAGAT[C-g]AGCTAATT[G-c]TAATAT	22	1
mml miR-557 nat as	AGATAAGGCTCACCCATGCAGAC	23	1
mml miR-557 2mut as	AGATAAGGCTCACCC[C-g]ATG[C-g]AGAC	23	1
mml miR-563 nat as	GGGAAATGTATGTCAGCCT	19	1
mml miR-563 2mut as	GGGAAATG[T-a]ATGTCAG[C-g]CT	19	1
mml miR-567 nat as	GTTCTGTCTGGAAGAACATAGT	23	1
mml miR-567 2mut as	GTTCTGT[C-g]TGG[A-t]AGAACATAGT	23	1
mml miR-570 nat as	GCAAAGGTAATTGCTACTTTTTG	22	1
mml miR-570 2mut as	GCAAAGG[T-a]AATTGCTA[C-g]TTTTG	22	1
mml miR-573 nat as	CTGATCGGTTATGCATCACTTCAG	24	1
mml miR-573 2mut as	CTGAT[C-g]GGTTATGCATC[A-t]CTTCAG	24	1
mml miR-576-5p nat as	AAAGATGTGGAGAAATTAGAAT	22	1
mml miR-576-5p 2mut as	AAAGATG[T-a]GGA[G-c]AAATTAGAAT	22	1
mml miR-578 nat as	ACAATCCCAGAGCACAAGAAG	21	1
mml miR-578 2mut as	ACAATCCCAGAG[C-g]ACAA[G-c]AAG	21	1

mml miR-579 nat as	AATCGCGGTTTGTACCAAATGAA	23	1
mml miR-579 2mut as	AATCGC[G-c]GTTTGTAC[C-g]AAATGAA	23	1
mml miR-580 nat as	CCTAATGATTCATCAGACTCAA	22	1
mml miR-580 2mut as	CCTAATGATT[C-g]ATCAGA[C-g]TCAA	22	1
mml miR-581 nat as	ACTGATCTACAGAACAAGA	21	1
mml miR-581 2mut as	ACTGATCTAC[A-t]GAA[C-g]ACAAGA	21	1
mml miR-583 nat as	GTAAGGGACCTTCCTCTTTG	21	1
mml miR-583 2mut as	GTAAGGGA[C-g]CTTCCTC[T-a]TTG	21	1
mml miR-586 nat as	GGACCTAAAATACAATATGCATA	24	1
mml miR-586 2mut as	GGAC[C-g]TAAAATACA[A-t]TATGCATA	24	1
mml miR-587 nat as	GTAAGTCATCACCTGTGGAAA	21	1
mml miR-587 2mut as	GTAA[C-g]TCATCA[C-g]CTGTGGAAA	21	1
mml miR-590-3p nat as	ACCAGCTTATACATAAAATTA	21	1
mml miR-590-3p 2mut as	ACCAG[C-g]TTAT[A-t]CATAAAATTA	21	1
mml miR-597 nat as	ACAGTGGTCGTCAAGTGACACA	22	1
mml miR-597 2mut as	ACAGT[G-c]GTCGTCAAGTGA[C-g]ACA	22	1
mml miR-600 nat as	GAGCAAGGCTCTTGTCTGTAAC	23	1
mml miR-600 2mut as	GAGC[A-t]AGGCTCTTGT[C-g]TGTAAC	23	1
mml miR-604 nat as	GTCCTGAATCCCGCAGCC	18	1
mml miR-604 2mut as	GTCCTG[A-t]ATCC[C-g]GCAGCC	18	1
mml miR-605 nat as	AGGAGAAGGCACCGTGGGATTTA	23	1
mml miR-605 2mut as	AGGAGAAGGCAC[C-g]GTGGGA[T-a]TTA	23	1
mml miR-607 nat as	GTTCCAATCCAGATCTATAAC	21	1
mml miR-607 2mut as	GTTCCA[A-t]TCCAGAT[C-g]TATAAC	21	1
mml miR-609 nat as	AGAGATGAGAGCAACACCCT	20	1
mml miR-609 2mut as	AGAGA[T-a]GAGAGCAACA[C-g]CCT	20	1
mml miR-612 nat as	AGGAGCTCAGAAGCCCTCCCCAG	23	1
mml miR-612 2mut as	AGGAGCTCAGA[A-t]GCCCTCCC[C-g]AG	23	1
mml miR-616 nat as	AGTCATTGGAGGGTTT	16	1
mml miR-616 2mut as	AGT[C-g]ATTGGAGGG[T-a]TT	16	1
mml miR-619 nat as	GGCACAACATGTCCAGATC	20	1
mml miR-619 2mut as	GGCA[C-g]AAACATGTC[C-g]AGATC	20	1
mml miR-624 nat as	AGGTAATACCAGTATCTTGTG	21	1
mml miR-624 2mut as	AGGTA[A-t]TACCAGTAT[C-g]TTGTG	21	1
mml miR-625 nat as	AGGGAGAAAGTTCTACAGTCC	21	1
mml miR-625 2mut as	AGGGAGAA[A-t]GTTCTA[C-g]AGTCC	21	1
mml miR-626 nat as	AAGACATTTTCGGACAGCT	19	1

mml miR-626 2mut as	AAGAC[A-t]TTTTCGGA[C-g]AGCT	19	1
mml miR-627 nat as	GTGAGTCTCTAAGAAAAGAGGA	22	1
mml miR-627 2mut as	GTGAGT[C-g]TCTAAGA[A-t]AAGAGGA	22	1
mml miR-636 nat as	TGCAGGCCGGGACGAGCAAGCACA	23	1
mml miR-636 2mut as	TGCA[G-c]GCGGGA[C-g]GAGCAAGCACA	23	1
mml miR-638 nat as	AGGCCGCCGCCCGCCCGCGATCCCT	25	1
mml miR-638 2mut as	AGGCCGCCGCCCGC[C-g]CGCGATC[C-g]CT	25	1
mml miR-639 nat as	AGAGCGCTCGCGACCGCTGCGCT	23	1
mml miR-639 2mut as	AGAGCGCTCG[C-g]GACCGC[T-a]GCGCT	23	1
mml miR-643 nat as	CTACCTGAGCTAGAATACAAGT	22	1
mml miR-643 2mut as	CTAC[C-g]TGAGCTAG[A-t]ATACAAGT	22	1
mml miR-644 nat as	GCTCTAAGCAAGCCACACT	19	1
mml miR-644 2mut as	GC[T-a]CTAAGCAAG[C-g]CACACT	19	1
mml miR-648 nat as	ATCAGTGCCCTGCACACTT	19	1
mml miR-648 2mut as	AT[C-g]AGTGCCCTGCACA[C-g]TT	19	1
mml miR-650b nat as	GTCCCGAGAGCGCTGCCTCCT	21	1
mml miR-650b 2mut as	GTC[C-g]CGAGAG[C-g]GCTGCCTCCT	21	1
mml miR-650c nat as	CTGAGAGCGCTGCCTCCT	18	1
mml miR-650c 2mut as	CTGAG[A-t]GCGCTG[C-g]CTCCT	18	1
mml miR-650d nat as	GTCCCGACAGCACTGTCTCCT	21	1
mml miR-650d 2mut as	GT[C-g]CCGA[C-g]AGCACTGTCTCCT	21	1
mml miR-651 nat as	CAAAGTCAAGCTTATTCTAAA	22	1
mml miR-651 2mut as	CAAAA[G-c]TCAAG[C-g]TTATTCTAAA	22	1
mml miR-657 nat as	CCTAGAGAGGGTGAGGACCTGCC	23	1
mml miR-657 2mut as	CCTAGAGAGGGT[G-c]AGGAC[C-g]TGCC	23	1
mml miR-661 nat as	ACGCACGGGCCAGATACCCAGGCA	24	1
mml miR-661 2mut as	ACGCA[C-g]GGGCCA[G-c]ATACCCAGGCA	24	1
mml miR-663 nat as	GCGGTCCCGCAGCGCCCCGCCT	22	1
mml miR-663 2mut as	GCGGTCCCG[C-g]AGCG[C-g]CCCCGCCT	22	1
mml miR-664 nat as	TAGGCTGGGGATAAATGAATA	21	1
mml miR-664 2mut as	TAGG[C-g]TGGGGAT[A-t]AATGAATA	21	1
mml miR-758 nat as	GGGTAGTGGACCAGGTCACAAA	22	1
mml miR-758 2mut as	GGGTAGTGGACC[A-t]GGT[C-g]ACAAA	22	1
mml miR-765 nat as	CAGCACTTCCCTCTCCTCCA	21	1
mml miR-765 2mut as	CAGCA[C-g]CTTCCCTCTCCT[C-g]CA	21	1
mml miR-875-3p nat as	CACAACCTCAGTATTTCCAGG	21	1
mml miR-875-3p 2mut as	CA[C-g]AACCTCAG[T-a]ATTTCCAGG	21	1

mml miR-890 nat as	AACTGGTGCCTTTCCAAGTA	20	1
mml miR-890 2mut as	AA[C-g]TGGTGCC[T-a]TTCCAAGTA	20	1
mml miR-920 nat as	TACCGCTTCTACAGCTCCCC	20	1
mml miR-920 2mut as	TACCGC[T-a]TCTA[C-g]AGCTCCCC	20	1
mml miR-922 nat as	GACGTAGTCTCATTCTCTGCTGC	23	1
mml miR-922 2mut as	GA[C-g]GTA[G-c]TCTCATTCTCTGCTGC	23	1
mml miR-924 nat as	GCAAGACAACACAAGACTCT	20	1
mml miR-924 2mut as	GCAAGACAA[C-g]ACAA[G-c]ACTCT	20	1
mml miR-934 nat as	CAGTGTCTCCAGTAGTAGACA	21	1
mml miR-934 2mut as	CAGTGTCTC[C-g]AGTAG[T-a]AGACA	21	1
mml miR-936 nat as	CTGCGATTCTCCCTCTCCTGT	22	1
mml miR-936 2mut as	CT[G-c]CGATTCTCCCTCTC[C-g]TGT	22	1
mml miR-937 nat as	GGTGGAGAGTCAGAGTGGCGAT	22	1
mml miR-937 2mut as	GGTGGAG[G-c]AGTCAGAGTG[C-g]GGAT	22	1
mml miR-938 nat as	ACCGGCTTCATCTTTAAGTGCA	22	1
mml miR-938 2mut as	ACCGG[C-g]TTCATCTTTA[A-t]GTGCA	22	1
mml miR-942 nat as	CACATGGCCAAAACAGAGAAG	21	1
mml miR-942 2mut as	CA[C-g]ATGG[C-g]CAAAACAGAGAAG	21	1
mml miR-944 nat as	CTCATCTGATATACAATAATTT	22	1
mml miR-944 2mut as	CT[C-g]ATCT[G-c]ATATACAATAATTT	22	1
hsa miR-320d nat as	TCCTCTCAACCCAGCTTTT	19	1
hsa miR-320d 2mut as	TC[C-g]TCTCAACCCAGCT[T-a]TT	19	1
hsa miR-1825 nat as	GGAGAGGAGGGCACTGGA	18	1
hsa miR-1825 2mut as	GGAG[A-t]GGAGGGCA[C-g]TGGA	18	1
hsa miR-1826 nat as	ATTGCGTTCGAAGTGTGATGATCAAT	27	1
hsa miR-1826 2mut as	ATTG[C-g]GTTCGAAGTGTGATGATC[A-t]AT	27	1
hsa miR-1827 nat as	ATTC AATCTACTGCCTCA	18	1
hsa miR-1827 2mut as	ATT[C-g]AAT[C-g]TACTGCCTCA	18	1
hsa miR-1908 nat as	GACCAATCGCGTCCCCGCCG	21	1
hsa miR-1908 2mut as	GACCA[A-t]TCGCGTC[C-g]CCGCCG	21	1
hsa miR-1909 nat as	CGGTGAGCACCCGGCCCCCTGCG	22	1
hsa miR-1909 2mut as	CGGTGAGCACCCGG[C-g]CCCT[G-c]CG	22	1
hsa miR-1910 nat as	AGGCGGCAGGCACAGGACTGG	21	1
hsa miR-1910 2mut as	AGGC[G-c]GCAGGCACAGGA[C-g]TGG	21	1
hsa miR-1911 nat as	CCCAACAGACATGGCGGTACTCA	23	1
hsa miR-1911 2mut as	CCCAA[C-g]AGACATGGCGGT[A-t]CTCA	23	1
hsa miR-1912 nat as	TTCACACTGCATGCTCTGGGTA	22	1

hsa miR-1912 2mut as	TTCACACTGCATG[C-g]TCTG[G-c]GTA	22	1
hsa miR-1913 nat as	TGGCAGCAGCGGAGGGGGCAGA	22	1
hsa miR-1913 2mut as	TGGCAGCAGCG[G-c]AGGGGG[C-g]AGA	22	1
hsa miR-1914 nat as	CAGAAGTGGGCCGGGCACAGGG	22	1
hsa miR-1914 2mut as	CAGAAGTGGG[C-g]CGGG[C-g]ACAGGG	22	1
hsa miR-1915 nat as	CCCGCCGCGTCGCCCTGGGG	20	1
hsa miR-1915 2mut as	CCCGCCGCG[T-a]CGCC[C-g]TGGGG	20	1
ptr miR-1225 nat as	TGGGGGCGGCACAGGGGCTCA	21	1
ptr miR-1225 2mut as	TGGGGGCGGCACA[G-c]GGG[C-g]TCA	21	1
ptr miR-1227 nat as	TGGGGAAAAGGGTGGCACG	19	1
ptr miR-1227 2mut as	TGGG[G-c]AAAAGGGTGG[C-g]ACG	19	1
ptr miR-1236 nat as	TGGAGAGACAAGGGGAAGAGG	21	1
ptr miR-1236 2mut as	TGGAGAGA[C-g]AAGGGGAA[G-c]AGG	21	1
ptr miR-1278 nat as	AGATGATATGCACAGTACTA	20	1
ptr miR-1278 2mut as	AGATG[A-t]TATGCA[C-g]AGTACTA	20	1
ptr miR-1299 nat as	CCCTCACACAGAATTCCAGAA	21	1
ptr miR-1299 2mut as	CCCTC[A-t]CACAGAATTC[C-g]AGAA	21	1
ptr miR-1300b nat as	AAGCAGCCTCCTTCTCAA	18	1
ptr miR-1300b 2mut as	AAG[C-g]AGCCT[C-g]CTTCTCAA	18	1
ptr miR-1827 nat as	ATTC AATCGACTGCCTCA	18	1
ptr miR-1827 2mut as	ATTC AATC[G-c]ACTG[C-g]CTCA	18	1
ptr miR-320d nat as	CCTCTCAACCCAGCTTTT	18	1
ptr miR-320d 2mut as	CCTCT[C-g]AACCC[A-t]GCTTTT	18	1
ptr miR-339 nat as	GGCTCTGTCTCGAGGCGCTCA	22	1
ptr miR-339 2mut as	GGCTCTGT[C-g]GTCTG[A-t]GGCGCTCA	22	1
ptr miR-449a nat as	ACGAGCTAACAATACACTGCCA	22	1
ptr miR-449a 2mut as	ACGAGCT[A-t]ACAATA[C-g]ACTGCCA	22	1
ptr miR-492 nat as	AGAATCTTGTCCCGCAGGTCCT	22	1
ptr miR-492 2mut as	AGAAT[C-g]TTGTCCC[G-c]CAGGTCCT	22	1
ptr miR-517b nat as	AGACAGTGCTTCCATCTAGAGG	22	1
ptr miR-517b 2mut as	AGACAG[T-a]GCTT[C-g]CATCTAGAGG	22	1
ptr miR-520c nat as	ACAGAAAGTGCTTCCCTCTAGA	22	1
ptr miR-520c 2mut as	AC[A-t]GAAAGTG[C-g]TCCCTCTAGA	22	1
ptr miR-548j nat as	CAAAGACCGCAATTACTTTT	20	1
ptr miR-548j 2mut as	CAAAGA[C-g]CGCAAT[T-a]ACTTTT	20	1
ptr miR-561 nat as	AACTTCAAGGATCTTAACTTT	22	1
ptr miR-561 2mut as	AAC[T-a]TCAAGGATCTTAA[C-g]TTT	22	1

ptr miR-582 nat as	TAGTAACTGGTTGAACAACCTGTA	23	1
ptr miR-582 2mut as	TAG[T-a]AACTGGTTGAA[C-g]AACTGTA	23	1
ptr miR-586 nat as	GGGACCTAAAAATACAATGCATA	23	1
ptr miR-586 2mut as	GGGA[C-g]CTA[A-t]AAATACAATGCATA	23	1
ptr miR-633 nat as	TTTTATTGTGGTAGATACTATTA	23	1
ptr miR-633 2mut as	TT[T-a]TATTGTGGTAGATA[C-g]TATTA	23	1
ptr miR-641 nat as	GGTGA CTCTATCCTATGTCTTT	22	1
ptr miR-641 2mut as	GGTGA[C-g]TCTA[T-a]CCTATGTCTTT	22	1
ptr miR-658 nat as	CCAACGGACCTACTTCCCTCCGCC	24	1
ptr miR-658 2mut as	CCA[A-t]CGGACCTACTT[C-g]CCTCCGCC	24	1
ptr miR-891a nat as	TGGCTCAGGTTTCGTTGCA	18	1
ptr miR-891a 2mut as	TGGCT[C-g]AGG[T-a]TCGTTGCA	18	1
ptr miR-922 nat as	TAGTCCTATTCTCTGCTGC	19	1
ptr miR-922 2mut as	TAGT[C-g]CTATTCTCTG[C-g]TGC	19	1
hsa miR-1972 nat as	TGAGCCACTGTGCCTGGCCTGA	22	1
hsa miR-1972 2mut as	TGAGCCACT[G-c]TGC[C-g]TGGCCTGA	22	1
hsa miR-1973 nat as	TATGCTACCTTGCACGGT	19	1
hsa miR-1973 2mut as	TAT[G-c]CTAC[C-g]TTTGCACGGT	19	1
hsa miR-1974 nat as	TATTCTCGCACGGACTACAACCA	23	1
hsa miR-1974 2mut as	TATTC[T-a]CGCACGGA[C-g]TACAACCA	23	1
hsa miR-1975 nat as	AGCTAGTCAAGCGCGGTTGTGGGGG	25	1
hsa miR-1975 2mut as	AG[C-g]TAGTCAAGCGC[G-c]GTTGTGGGGG	25	1
hsa miR-1976 nat as	ACAGCAAGGAGGGCAGGAGG	20	1
hsa miR-1976 2mut as	ACAG[C-g]AAGGA[G-c]GGCAGGAGG	20	1
hsa miR-1977 nat as	TTAACAGCTAAGCACCCCTAATC	22	1
hsa miR-1977 2mut as	TTAACAGCT[A-t]AGCACCC[C-g]TAATC	22	1
hsa miR-1978 nat as	TAGAAAGGCTAGGACCAAACC	21	1
hsa miR-1978 2mut as	TA[G-c]AAAGG[C-g]TAGGACCAAACC	21	1
hsa miR-1979 nat as	TAGTCAAGTGAAGCAGTGGGAG	22	1
hsa miR-1979 2mut as	TAGT[C-g]AAGTGAAGCAG[T-a]GGGAG	22	1
hsa miR-2052 nat as	ACATTACTGTTATCAAAAACA	20	1
hsa miR-2052 2mut as	ACATTA[C-g]TGTTA[T-a]CAAAAACA	20	1
hsa miR-2053 nat as	GTAAATAGAGGTTTAATTAACAC	23	1
hsa miR-2053 2mut as	GTAAATAG[A-t]GGTTTAATTAAC[C-g]AC	23	1
hsa miR-2054 nat as	AATAAATTAATTTATATTACAG	23	1
hsa miR-2054 2mut as	AATAAATTAATTTAT[A-t]TTA[C-g]AG	23	1
hsa miR-2110 nat as	CACTCAGCGGCCGTTTCCCAA	22	1

hsa miR-2110 2mut as	CAC[T-a]CAG[C-g]GGCCGTTTCCCAA	22	1
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