

## Species Specific MicroRNA: C. elegans 9.0

Probe Name	Probe Sequence	Length	Replicates	Tm	Annotations
cel tRNA-Arg(Chr:I)_17_37 PosCtrl as	CCGTAGGCAGACGCGTTATCC	21	1	61.21	Positive Control
cel tRNA-Arg(Chr:I)_43_63 PosCtrl as	AGGATTGCAACCTGCAATCTT	21	1	55.83	Positive Control
cel tRNA-Asp(Chr:V)_18_38 PosCtrl as	GTGACAGACGCGGATACTCAC	21	1	58.82	Positive Control
cel tRNA-Asp(Chr:V)_38_58 PosCtrl as	ATTGAACCCGGGTCTCGCATG	21	1	61.21	Positive Control
cel tRNA-Gly(Chr:III)_9_29 PosCtrl as	ATCCATGCTGACCATTACACC	21	1	56.24	Positive Control
cel tRNA-Gly(Chr:III)_20_39 PosCtrl as	CTTGGAAGGCATCCATGCTG	20	1	57.08	Positive Control
cel tRNA-Val(Chr:X)_11_33 PosCtrl as	AGACAGATGTGATAACCACTACA	23	1	55.47	Positive Control
cel tRNA-Val(Chr:X)_32_52 PosCtrl as	CACCGACCTTCTGTGTGTAG	21	1	56.66	Positive Control
cel tRNA-Met(Chr:II)_31_51 PosCtrl as	CACCGACCTCTGGGTATGGG	21	1	60.38	Positive Control
cel tRNA-Met(Chr:II)_52_71 PosCtrl as	AGCAGCGAGTGGTTTCGATC	20	1	58.52	Positive Control
cel tRNA-Phe(Chr:X)_33_53 PosCtrl as	CTGGTGACCTTACGATCTTCA	21	1	55.26	Positive Control
cel tRNA-Phe(Chr:X)_17_37 PosCtrl as	CTTCAGTCGTACGCTCTCCA	21	1	59.66	Positive Control
cel tRNA-Pro(Chr:V)_15_35 PosCtrl as	CCAAAGCGAGAATCATACCAC	21	1	55.11	Positive Control
cel tRNA-Pro(Chr:V)_29_48 PosCtrl as	GGACCTCTGCACCCAAAGC	20	1	61.24	Positive Control
cel tRNA-Trp(Chr:IV)_31_50 PosCtrl as	CCCAACCTTTCGATCTGGAG	20	1	55.79	Positive Control
cel tRNA-Trp(Chr:IV)_13_33 PosCtrl as	GAGTCGAACGCGCTACCATTG	21	1	59.95	Positive Control
cel U6(X07829)_31_54 PosCtrl as	CCATGCTAATCTTCTGTATTGT	24	1	55.48	Positive Control
cel U6(X07829)_61_81 PosCtrl as	AATTTGCGTGTATCCTTGCG	21	1	58.46	Positive Control
cel actin(NM_073418)_946_967 DegradC	AGTTGTAAGAAGTCTCGTGGAT	22	1	55.3	Degradation Control
cel actin(NM_073418)_838_858 DegradC	GTCAGGAAGTTCGTAGGACTT	21	1	55.19	Degradation Control
cel hsp-70(NM_060084)_1642_1663 Deg	CTTCTAATTGATTACGCGAGCT	22	1	55.02	Degradation Control
cel hsp-70(NM_060084)_1767_1789 Deg	CCGCTAATGTATTACGTTCCATC	23	1	56.05	Degradation Control
cel pgk(NM_058844)_590_610 DegradCt	AGGGCCTTGCTAAAGTAGGAG	21	1	57.38	Degradation Control
cel pgk(NM_058844)_1162_1182 Degrad	CGTGAGACACCTTATCTTCCG	21	1	56.25	Degradation Control
cel ubq-1(NM_171139)_2447_2467 Degr	GCATACCTCCTCTGAGACGGA	21	1	58.93	Degradation Control
cel ubq-1(NM_171139)_2621_2641 Degr	TGTAATCGGATAGAGTGCGTC	21	1	55.45	Degradation Control
neg Bio B Spike_394_418 NegCtrl as	GCGCCTGAGATTCACCAACGTGCC	25	1	67.4	NegativeControl
neg Bio C Spike_113_137 NegCtrl as	ACGTGGGTGATTTACGCTGTGGAA	25	1	63.88	NegativeControl
neg Lambda Spike 12_609_633 NegCtrl	CTTCCGGCAATACTCGTAAACCATA	25	1	60.08	NegativeControl
neg Lambda Spike 5_753_777 NegCtrl as	GAACAGTTATCGAAATCAGCCACA	25	1	60.72	NegativeControl
neg Lambda Spike 6_497_521 NegCtrl as	TACAACCGGAATGTTGACCTTGCCCT	25	1	63.95	NegativeControl
neg Lambda Spike 8_329_353 NegCtrl as	GTCACCTTTATCTGCCGCCACTCAT	25	1	64.28	NegativeControl
neg Lambda Spike 9_1167_1191 NegCtrl	GATGTTTGCAGACGTAATGGTGCGG	25	1	64.05	NegativeControl
cel let-7 nat as	AACTATACAACCTACTACCTCA	22	5	51.57	
cel let-7 2mut as	AACTATACAA[C-t]CTACTA[C-t]CTCA	22	5	47.08	
cel lin-4 nat as	TCACACTTGAGGTCTCAGGGA	21	5	58.39	
cel lin-4 2mut as	TCACACTGAG[G-c][G-c]TCTCAGGGA	21	5	58.39	
cel miR-1 nat as	TACATACTTCTTTACATTCCA	21	5	47.63	
cel miR-1 2mut as	TACATA[C-t]TCTTTA[C-a]ATTCCA	21	5	43.98	
cel miR-2 nat as	GCACATCAAAGCTGGCTGTGATA	23	5	60.4	
cel miR-2 2mut as	GCACATCAAAG[C-t]TG[G-c]CTGTGATA	23	5	58.46	
cel miR-34 nat as	CAACCAGCTAACACACTGCCT	22	5	61.51	
cel miR-34 2mut as	CAACCAG[C-t]TAAC[C-a]ACACTGCCT	22	5	57.73	
cel miR-35 nat as	ACTGCTAGTTTCCACCCGGTGA	22	5	62.13	
cel miR-35 2mut as	ACTG[C-t]TAGTTTCCACCC[G-a]GTGA	22	5	57.74	
cel miR-36 nat as	CATGCGAATTTTACCCGGTGA	22	5	60.41	
cel miR-36 2mut as	CATG[C-a]GAATTTTACCC[G-a]GTGA	22	5	55.03	
cel miR-37 nat as	ACTGCAAGTGTTACCCGGTGA	22	5	63.11	
cel miR-37 2mut as	ACTG[C-a]AAGTGTTACCC[G-a]GTGA	22	5	58.25	
cel miR-38 nat as	ACTCCAGTTTTCTCCCGGTGA	22	5	60.08	
cel miR-38 2mut as	ACTC[C-a]AGTTTTTCTCCC[G-a]GTGA	22	5	55.98	
cel miR-39 nat as	CAAGCTGATTTACCCGGTGA	22	5	59.3	
cel miR-39 2mut as	CAAG[C-t]TGATTTACCC[G-a]GTGA	22	5	54.96	
cel miR-40 nat as	TTAGCTGATGTACCCGGTGA	22	5	59.64	
cel miR-40 2mut as	TTAG[C-t]TGATGTACCC[G-a]GTGA	22	5	55.24	
cel miR-41 nat as	TAGGTGATTTTTACCCGGTGA	22	5	58.13	

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Probe Name	Probe Sequence	Length	Replicates	Tm	Annotations
cel miR-41 2mut as	TAGG[T-c]GATTTTTACCC[G-a]GTGA	22	5	58.44	
cel miR-42 nat as	CTGTAGATGTTAACCCGGTG	20	5	53.35	
cel miR-42 2mut as	CTGTAGAT[G-c]TTAACCC[C-a]GGTG	20	5	50.22	
cel miR-43 nat as	GCGACAGCAAGTAACTGTGATA	23	5	57.92	
cel miR-43 2mut as	GCGACAG[C-a]AAGTAACTGT[T-c]GATA	23	5	57.96	
cel miR-44 nat as	AGCTGAATGTGTCTCTAGTCA	21	5	54.29	
cel miR-44 2mut as	AGCTGAATG[T-c]G[T-c]CTCTAGTCA	21	5	59.75	
cel miR-46 nat as	TGAAGAGAGCGACTCCATGACA	22	5	59.6	
cel miR-46 2mut as	TGAAGAGAG[C-a]GACTC[C-a]ATGACA	22	5	54.7	
cel miR-47 nat as	TGAAGAGAGCGCCTCCATGACA	22	5	62.19	
cel miR-47 2mut as	TGAAGAGAGC[G-c][C-t]CTCCATGACA	22	5	59.09	
cel miR-48 nat as	TCGCATCTACTGAGCCTACCTCA	23	5	61.34	
cel miR-48 2mut as	TCGCATCTAC[T-c]GAG[C-t]CTACCTCA	23	5	61.04	
cel miR-49 nat as	TCTGCAGCTTCTCGTGGTGCTT	22	5	63.16	
cel miR-49 2mut as	TCTG[C-a]AGCTTCTC[G-c]TGGTGCTT	22	5	60.14	
cel miR-50 nat as	AACCCAAAGAATACCAGACATATCA	24	5	56.44	
cel miR-50 2mut as	AACC[C-a]AAGAATAC[C-a]AGACATATCA	24	5	53.19	
cel miR-51 nat as	AACATGGATAGGAGCTACGGGTA	23	5	59.23	
cel miR-51 2mut as	AACAT[G-c]GATAGGAGCTAC[G-a]GGTA	23	5	57.01	
cel miR-52 nat as	AGCACGGAACATATGTACGGGTG	24	5	62.13	
cel miR-52 2mut as	AGCAC[G-a]GAAACATATGTAC[G-a]GGTG	24	5	57.96	
cel miR-53 nat as	AGCACGGAACAAATGTACGGGTG	24	5	62.99	
cel miR-53 2mut as	AGCAC[G-a]GAAACAAATGTAC[G-a]GGTG	24	5	58.86	
cel miR-54 nat as	CTCGATTATGAAGATTACGGGTA	24	5	56.63	
cel miR-54 2mut as	CTCG[G-a]ATTATGAAGATTAC[G-a]GGTA	24	5	52.91	
cel miR-55 nat as	CTCAGCAGAACTTATACGGGTA	23	5	56.4	
cel miR-55 2mut as	CTCAG[C-a]AGAACTTATAC[G-a]GGTA	23	5	51.68	
cel miR-56* nat as	TACAACCCAAAATGGATCCGCCA	23	5	61.52	
cel miR-56* 2mut as	TACAAC[C-t]CAAATGGATC[C-a]GCCA	23	5	57.07	
cel miR-56 nat as	CTCAGCGGAACATTACGGGTA	22	5	58.81	
cel miR-56 2mut as	CTCAG[C-a]GGAACATTAC[G-a]GGTA	22	5	53.36	
cel miR-57 nat as	ACACACAGCTCGATCTACAGGGTA	24	5	61.92	
cel miR-57 2mut as	ACACACAG[C-t]TCGATCTACA[G-c]GGTA	24	5	60.48	
cel miR-58 nat as	ATTGCCGTAAGTAAACGATCTCA	22	5	58.24	
cel miR-58 2mut as	ATTG[C-t]CGTACTGAA[C-a]GATCTCA	22	5	53.37	
cel miR-59 nat as	CATCATCCTGATAAACGATTCGA	23	5	55.19	
cel miR-59 2mut as	CATCAT[C-t]CTGATAAA[C-a]GATTCGA	23	5	51.34	
cel miR-60 nat as	TGAACTAGAAAATGTCATAATA	23	5	50.57	
cel miR-60 2mut as	TGAA[C-t]TAGAAAATGTG[C-a]ATAATA	23	5	46.4	
cel miR-61 nat as	GAGATGAGTAACGGTTCTAGTCA	23	5	55.83	
cel miR-61 2mut as	GAGATGAGTAA[C-a][G-a]GTTCTAGTCA	23	5	51.95	
cel miR-62 nat as	CTGTAAGCTAGATTACATATCA	22	5	48.75	
cel miR-62 2mut as	CTGTAAG[C-t]TAGATTA[C-a]ATATCA	22	5	44.92	
cel miR-63 nat as	TTTCCAACCTCGCTTCAGTGCATA	24	5	59.43	
cel miR-63 2mut as	TTTCCAACCTC[G-c]CTTCAG[T-c]GTCATA	24	5	61.08	
cel miR-64 nat as	TTCGGTAACGCTTCAGTGCATA	23	5	58.71	
cel miR-64 2mut as	TTCGGTAAC[G-c]CTTCAG[T-c]GTCATA	23	5	60.4	
cel miR-65 nat as	TTCGGTTACGCTTCAGTGCATA	23	5	58.71	
cel miR-65 2mut as	TTCGGTTAC[G-c]CTTCAG[T-c]GTCATA	23	5	60.4	
cel miR-66 nat as	TCACATCCCTAATCAGTGCATG	23	5	56.67	
cel miR-66 2mut as	TCACATC[C-t]CTAATCAG[T-c]GTCATG	23	5	57.01	
cel miR-67 nat as	TCTACTCTTTCTAGGAGTTGTGA	24	5	57.12	
cel miR-67 2mut as	TCTA[C-t]TCTTTCTAGGAG[G-c]TTGTGA	24	5	55.86	
cel miR-70 nat as	ATGGAACACCAACGACGTATTA	23	5	57.09	
cel miR-70 2mut as	ATGGAACAC[C-a]AACGAC[G-c]TATTA	23	5	54.88	
cel miR-71 nat as	TCACTACCCATGTCTTTCA	19	5	50.45	

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Probe Name	Probe Sequence	Length	Replicates	Tm	Annotations
cel miR-71 2mut as	TCACTAC[C-t]CAT[G-c]TCTTTCA	19	5	47.2	
cel miR-72 nat as	GCTATGCCAACATCTTGCCCT	20	5	56.45	
cel miR-72 2mut as	GCTATG[C-t]CAA[C-a]ATCTTGCCCT	20	5	51.74	
cel miR-73 nat as	ACTGAACTGCCTACATCTTGCCA	23	5	60.91	
cel miR-73 2mut as	ACTGAACTG[C-t]CTA[C-a]ATCTTGCCA	23	5	56.74	
cel miR-74 nat as	TGTAGACTGCCATTTCTTGCCA	22	5	58.71	
cel miR-74 2mut as	TGTAGACTG[C-t]CATTT[C-t]TTGCCA	22	5	54.9	
cel miR-75 nat as	TGAAGCCGGTTGGTAGCTTTAA	22	5	58.69	
cel miR-75 2mut as	TGAAG[C-t]CGGTTGGTAG[C-t]TTTAA	22	5	54.03	
cel miR-76 nat as	TCAAGGCTTCATCAACAACGAA	22	5	57.2	
cel miR-76 2mut as	TCAAG[G-c]CTTCATCAA[C-a]AACGAA	22	5	55.49	
cel miR-77 nat as	TGGACAGCTATGGCCTGATGAA	22	5	60.03	
cel miR-77 2mut as	TGGACAG[C-t]TATGG[C-t]CTGATGAA	22	5	55.31	
cel miR-78 nat as	GCACAAACAACCAGGCCTCCA	21	5	61.89	
cel miR-78 2mut as	GCACAAACA[C-t]CAGG[C-t]CTCCA	21	5	56.91	
cel miR-79 nat as	AGCTTTGGTAACCTAGCTTTAT	22	5	53.62	
cel miR-79 2mut as	AGCTTT[G-c]GTAACCTAG[C-t]TTTAT	22	5	51.62	
cel miR-227 nat as	GTTCAGAATCATGTCGAAAGCT	22	5	55.41	
cel miR-227 2mut as	GTTC[A-c]GAATCATGT[C-a]GAAAGCT	22	5	54.89	
cel miR-80 nat as	TCGGCTTTCAACTAATGATCTCA	23	5	56.6	
cel miR-80 2mut as	TCGG[C-t]TTTCAACTAAT[G-a]ATCTCA	23	5	52.45	
cel miR-81 nat as	ACTAGCTTTCACGATGATCTCA	22	5	55.43	
cel miR-81 2mut as	ACTAG[C-t]TTTCA[C-a]GATGATCTCA	22	5	50.99	
cel miR-82 nat as	ACTGGCTTTCACGATGATCTCA	22	5	58.22	
cel miR-82 2mut as	ACTG[G-c]CTTTCA[C-a]GATGATCTCA	22	5	55.91	
cel miR-83 nat as	TTACTGAATTTATATGGTGCTA	22	5	48.81	
cel miR-83 2mut as	TTAC[T-c]GAATTTATAT[G-c]GTGCTA	22	5	51.31	
cel miR-84 nat as	TACAATATTACATACTACCTCA	22	5	47.35	
cel miR-84 2mut as	TACAATATTA[C-a]ATACTA[C-t]CTCA	22	5	43.32	
cel miR-85 nat as	GCACGACTTTTCAAATACTTTGTA	24	5	55.28	
cel miR-85 2mut as	GCAC[G-a]ACTTTTCAAATA[C-t]TTTGTA	24	5	52.14	
cel miR-86 nat as	GACTGTGGCAAAGCATTCACTTA	23	5	58.4	
cel miR-86 2mut as	GACTGTG[G-c]CAAAG[C-a]ATTCACCTTA	23	5	55.95	
cel miR-87 nat as	ACACCTGAAACTTTGCTCAC	20	5	54.28	
cel miR-87 2mut as	ACAC[C-t]TGAAACTTT[G-c]CTCAC	20	5	51.46	
cel miR-90 nat as	GGGGCATTCAAACAACATATCA	22	5	55.69	
cel miR-90 2mut as	GGGG[C-a]ATTCAAACAA[C-a]ATATCA	22	5	51.35	
cel miR-124 nat as	TGGCATTACCCGCGTGCCCTTA	21	5	63.45	
cel miR-124 2mut as	TGGCATTAC[C-a]G[C-a]GTGCCCTTA	21	5	57.86	
cel miR-228 nat as	CCGTGAATTCATGCAGTGCCATT	23	5	61.19	
cel miR-228 2mut as	CCGTGAATT[C-a]ATGCAGTG[C-t]CATT	23	5	56.63	
cel miR-229 nat as	ACGATGGAAAAGATAACCAGTGCATT	27	5	60.81	
cel miR-229 2mut as	ACGAT[G-c]GAAAAGATAAC[C-a]AGTGCATT	27	5	59.37	
cel miR-230 nat as	TCTCCTGGTCGCACAACCTAATAC	23	5	58.78	
cel miR-230 2mut as	TCTCCTGGTC[G-c]C[A-c]CAACTAATAC	23	5	59.71	
cel miR-231 nat as	TTCTGCCTGTTGATCACGAGCTTA	24	5	61.31	
cel miR-231 2mut as	TTCTG[C-t]CTGTTGATCA[C-a]GAGCTTA	24	5	56.83	
cel miR-232 nat as	TCACCGCAGTTAAGATGCATTTA	23	5	57.41	
cel miR-232 2mut as	TCACC[G-c]CAGTTAAGATG[C-a]ATTTA	23	5	54.04	
cel miR-233 nat as	TCCCGCACATGCGCATTGCTCAA	23	5	66.98	
cel miR-233 2mut as	TCCCGCACATG[C-a][G-c]CATTGCTCAA	23	5	63.89	
cel miR-234 nat as	AAGGGTATTCTCGAGCAATAA	21	5	52.6	
cel miR-234 2mut as	AAGG[G-c]TATTCTCGAG[C-a]AATAA	21	5	50.21	
cel miR-235 nat as	TCAGGCCGGGGAGAGTGCAATA	22	5	64.05	
cel miR-235 2mut as	TCAGG[C-t]CGGGGAGAGTG[C-a]AATA	22	5	58.83	
cel miR-236 nat as	AGCGTCATTACCTGACAGTATTA	23	5	55.84	

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Probe Name	Probe Sequence	Length	Replicates	Tm	Annotations
cel miR-236 2mut as	AGCGTCATTA[C-t]CTGA[C-a]AGTATTA	23	5	52.07	
cel miR-237 nat as	AAGCTGTTTCGAGAATTCTCAGGGA	24	5	60.83	
cel miR-237 2mut as	AAGCTGTT[C-a]GAGAATTCTC[A-c]GGGA	24	5	60.38	
cel miR-238 nat as	TCTGAATGGCATCGGAGTACAAA	23	5	58.77	
cel miR-238 2mut as	TCTGAATG[G-c]CATC[G-a]GAGTACAAA	23	5	56.55	
cel miR-239a nat as	CCAGTACCTATGTGTAGTACAAA	23	5	53.86	
cel miR-239a 2mut as	CCAGTA[C-t]CTATG[T-c]GTAGTACAAA	23	5	54.31	
cel miR-239b nat as	CAGTACTTTTGTGTAGTACAA	21	5	49.19	
cel miR-239b 2mut as	CAGTACTTTT[G-c][T-c]GTAGTACAA	21	5	51.06	
cel miR-240 nat as	AGCGAAGATTTGGGGGCCAGTA	22	5	62.58	
cel miR-240 2mut as	AGCGAA[G-c]ATTTGGGGG[C-t]CAGTA	22	5	60.47	
cel miR-241 nat as	TCATTCTCGCACCTACCTCA	21	5	57.01	
cel miR-241 2mut as	TCATTCTC[G-c]CACCTA[C-t]CTCA	21	5	53.71	
cel miR-242 nat as	TCGAAGCAAAGGCCTACGCAA	21	5	61.05	
cel miR-242 2mut as	TCGAAG[C-a]AAAGG[C-t]CTACGCAA	21	5	55.73	
cel miR-243 nat as	GATATCCCGCCGCGATCGTACCG	23	5	65.8	
cel miR-243 2mut as	GATATCCCGCC[G-c][C-a]GATCGTACCG	23	5	63.08	
cel miR-244 nat as	CATACCACTTTGTACAACCAAGA	24	5	56.27	
cel miR-244 2mut as	CATAC[C-a]ACTTTGTACAAC[C-a]AAAGA	24	5	53.11	
cel miR-245 nat as	GAGCTACTTGGAGGGGACCAAT	22	5	60.04	
cel miR-245 2mut as	GAGCTACTT[G-c]GAGG[G-t]GACCAAT	22	5	58.26	
cel miR-246 nat as	AGCTCCTACCCGAAACATGTAA	22	5	57.65	
cel miR-246 2mut as	AGCTCCTACC[C-a][G-a]AAACATGTAA	22	5	54.09	
cel miR-247 nat as	AAGAAGAGAATAGGCTCTAGTCA	23	5	54.69	
cel miR-247 2mut as	AAGAAG[A-c]GAATAG[G-c]CTCTAGTCA	23	5	57.76	
cel miR-248 nat as	TGAGCGTTATCCGTGCACGTGA	23	5	63.21	
cel miR-248 2mut as	TGAG[C-a]GTTATCCGTG[C-a]ACGTGA	23	5	57.9	
cel miR-249 nat as	GCAACGCTCAAAAGTCTGTGA	22	5	60.26	
cel miR-249 2mut as	GCAAC[G-c]CTCAAAAGT[C-t]CTGTGA	22	5	57.73	
cel miR-250 nat as	CCATGCCAACAGTTGACTGTGA	22	5	59.76	
cel miR-250 2mut as	CCATG[C-t]CAACAGTTG[A-c]CTGTGA	22	5	59.76	
cel miR-251 nat as	AATAAGAGCGGCACCACTACTTAA	24	5	59.04	
cel miR-251 2mut as	AATAAGAG[C-a]GGCAC[C-a]ACTACTTAA	24	5	54.5	
cel miR-252 nat as	GTTACCTGCGGCACTACTACTTA	23	5	58.53	
cel miR-252 2mut as	GTTACCTG[C-a]GGC[A-c]CTACTACTTA	23	5	57.21	
cel miR-253 nat as	GGTCAGTGTAGTGAGGTGTG	21	5	56.34	
cel miR-253 2mut as	GGTCAG[T-c]GTTAGTGAG[G-c]TGTG	21	5	59.32	
cel miR-254 nat as	CCTACAGTCGCGAAAGATTTGCA	23	5	60.31	
cel miR-254 2mut as	CCTACAGTCG[C-a]GAAA[G-c]ATTTGCA	23	5	57.88	
cel miR-256 nat as	TACAGTCTTCTATGCATTCCA	21	5	52.24	
cel miR-256 2mut as	TACAG[T-c]CTTCTATG[C-a]ATTCCA	21	5	52.23	
cel miR-257 nat as	TCACTGGGTACTCCTGATACTC	22	5	56.58	
cel miR-257 2mut as	TCACTG[G-t]GTA CT[C-t]CTGATACTC	22	5	53.11	
cel miR-258 nat as	AAAAGGATTCTCTCAAAACC	21	5	52.11	
cel miR-258 2mut as	AAAAGGATT[C-t]CTCT[C-a]AAAACC	21	5	47.91	
cel miR-259 nat as	TACCAGATTAGGATGAGATTT	21	5	49.2	
cel miR-259 2mut as	TACCAGATTA[G-c][G-a]ATGAGATTT	21	5	47.97	
cel miR-260 nat as	CTACAAGAGTTCGACATCAC	20	5	51.25	
cel miR-260 2mut as	CTACAAGA[G-c]TT[C-a]GACATCAC	20	5	48.12	
cel miR-261 nat as	CGTGAAAATAAAAAGCTA	19	5	46.18	
cel miR-261 2mut as	CGTGAAAA[C-t]TAAAA[A-c]GCTA	19	5	47.02	
cel miR-262 nat as	ATCAGAAAACATCGAGAAAC	20	5	49.26	
cel miR-262 2mut as	ATCAGAAAA[C-a]AT[C-a]GAGAAAC	20	5	44.14	
cel miR-264 nat as	CATAACAACAACCACCCGCC	20	5	57.55	
cel miR-264 2mut as	CATAACAA[C-a]AACCAC[C-t]CGCC	20	5	53.3	
cel miR-265 nat as	ATACCACCTTCTCCCTCA	20	5	57.3	

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cel miR-265 2mut as	ATACCAC[C-t]CTTCCTC[C-t]CTCA	20	5	52.18	
cel miR-266 nat as	GCTTTGCCAAAGTCTTGCCCT	20	5	57.44	
cel miR-266 2mut as	GCTTTG[C-t]CAAAG[T-c]CTTGCCCT	20	5	57.44	
cel miR-267 nat as	TGCAGCAGACACTTCACGGG	20	5	60.82	
cel miR-267 2mut as	TGCAG[C-a]AGACACTTC[A-c]CGGG	20	5	59.99	
cel miR-268 nat as	ACCAAAGTCTTCTAATTCTTGCC	24	5	58.94	
cel miR-268 2mut as	ACCAAAGT[G-c]CTTCTAATT[C-t]TTGCC	24	5	57.07	
cel miR-269 nat as	AGTTTTGCCAGAGTCTTGCC	20	5	56.52	
cel miR-269 2mut as	AGTTTTG[C-t]CAGAG[T-c]CTTGCC	20	5	56.52	
cel miR-270 nat as	CTCCACTGCTACATCATGCC	20	5	56.21	
cel miR-270 2mut as	CTCCACT[G-c]CTA[C-a]ATCATGCC	20	5	53.41	
cel miR-271 nat as	AATGCTTCCCACCCGGCGA	20	5	62.85	
cel miR-271 2mut as	AATGCTTTC[C-t]CACCC[G-a]GCGA	20	5	57.84	
cel miR-272 nat as	CAAACACCCATGCCTACA	18	5	51.92	
cel miR-272 2mut as	CAAACAC[C-t]CATG[C-t]CTACA	18	5	46.12	
cel miR-273 nat as	CAGCCGACACAGTACGGGCA	20	5	62.7	
cel miR-273 2mut as	CAGC[C-a]GACACAGTAC[G-a]GGCA	20	5	57.8	
cbr miR-50 nat as	AACCCAAAGAATATCAGACATATCA	24	5	54.37	
cbr miR-50 2mut as	AACC[C-a]AAGAATATCAGA[C-a]ATATCA	24	5	51.13	
cbr miR-60 nat as	TGGACTAGAAAATGTGCATAATA	23	5	52.24	
cbr miR-60 2mut as	TGGA[C-t]TAGAAAATGTG[C-a]ATAATA	23	5	48.06	
cbr miR-73 nat as	ACTGAACTGCCAACATCTTGCCA	23	5	61.9	
cbr miR-73 2mut as	ACTGAACTG[C-t]CAA[C-a]ATCTTGCCA	23	5	57.76	
cbr miR-74 nat as	TCTAGACTGCCATTTCTTGCCA	22	5	58.19	
cbr miR-74 2mut as	TCTAGACTG[C-t]CATTT[C-t]TTGCCA	22	5	54.36	
cbr miR-75 nat as	TGAAGCGGTTGGTAGCTTTAA	22	5	58.69	
cbr miR-75 2mut as	TGAAGG[C-a]GGTTGGTAG[C-t]TTTAA	22	5	53.41	
cbr miR-85 nat as	GCACGCCTTTCAAATACTTTGTA	24	5	57.61	
cbr miR-85 2mut as	GCAC[G-c]CCTTTCAAATA[C-t]TTTGTA	24	5	55.3	
cbr miR-230 nat as	TTTCTGGTCCGACAATAATAC	23	5	57.64	
cbr miR-230 2mut as	TTTCTGGTC[G-c]C[A-c]CAACTAATAC	23	5	58.53	
cbr miR-241 nat as	TCATTTCTCACACCTACCTCA	21	5	54.21	
cbr miR-241 2mut as	TCATTTCTC[A-c]CACCTA[C-t]CTCA	21	5	53.71	
cbr miR-248 nat as	TGAGCGTTATCCGAGCAGTGTA	23	5	62.75	
cbr miR-248 2mut as	TGAG[C-a]GTTATCCGAG[C-a]ACGTGTA	23	5	57.41	
cbr miR-250 nat as	CCGTGCCAACAGTTGACTGTGA	22	5	61.9	
cbr miR-250 2mut as	CCGTG[C-t]CAACAGTTG[A-c]CTGTGA	22	5	61.9	
cbr miR-259 nat as	AACCAGATTAGGATGAGATTT	21	5	50.06	
cbr miR-259 2mut as	AACCAGATTA[G-c][G-a]ATGAGATTT	21	5	48.83	
cbr miR-268 nat as	ACCAAAGTCTTCTAATTCTTGCC	25	5	59.65	
cbr miR-268 2mut as	ACCAAAGT[G-c]CTTCTAATT[C-t]TTGCC	25	5	57.86	
cbr miR-72 nat as	GCTATGCCAACATCTGCCT	19	5	55.41	
cbr miR-72 2mut as	GCTATG[C-t]CAA[C-a]ATCTGCCT	19	5	50.46	
cel miR-353 nat as	AATACCAACACATGGCAATTG	21	5	53.46	
cel miR-353 2mut as	AATAC[C-a]AACACATG[G-c]CAATTG	21	5	51.67	
cel miR-354 nat as	AGGAGCAGCAACAACAAGGT	21	5	58.9	
cel miR-354 2mut as	AGGAGCAG[C-a]AACAAA[C-a]AAGGT	21	5	54.35	
cel miR-355 nat as	CATAGCTCAGGCTAAAACAAA	21	5	52.28	
cel miR-355 2mut as	CATAGCTCAG[G-c][C-t]TAAAACAAA	21	5	50.5	
cel miR-356 nat as	TGATTTGTTGCGTTGCTCAA	21	5	57.74	
cel miR-356 2mut as	TGATTTGTT[C-g][C-a]GTTGCTCAA	21	5	54.43	
cel miR-357 nat as	TCCTGCAACGACTGGCATTTA	21	5	58.44	
cel miR-357 2mut as	TCCTG[C-a]AACGACTG[G-c]CATTTA	21	5	55.75	
cel miR-358 nat as	CCTTGACAGGGATACCAATTG	21	5	54.43	
cel miR-358 2mut as	CCTTGACAG[G-t]GATAC[C-a]AATTG	21	5	50.87	
cel miR-359 nat as	TCGTCAGAGAAAGACCAGTGA	21	5	56.58	

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Probe Name	Probe Sequence	Length	Replicates	Tm	Annotations
cel miR-359 2mut as	TCGTC[A-c]GAGAAAGAC[C-a]AGTGA	21	5	57.17	
cel miR-360 nat as	TTGTGAACGGGATTACGGTCA	21	5	57.81	
cel miR-360 2mut as	TTGTGAAC[G-a]GGATTAC[G-a]GTCA	21	5	52.95	
cel lsy-6 nat as	CGAAATGCGTCTCATACAAAA	21	5	53.28	
cel lsy-6 2mut as	CGAAATG[C-a]GTCTCATA[C-a]AAAA	21	5	48.19	
cbr lsy-6 nat as	CGGAATGCGTCTCATACAAAA	21	5	55.04	
cbr lsy-6 2mut as	CGGAATG[C-a]GTCTCATA[C-a]AAAA	21	5	49.95	
cel miR-392 nat as	TCATCACACGTGATCGATGATA	22	5	55.55	
cel miR-392 2mut as	TCATCACAC[G-c]TGAT[C-a]GATGATA	22	5	52.05	
cbr miR-353 nat as	GATACCAACACATGATACTTG	21	5	50.11	
cbr miR-353 2mut as	GATAC[C-a]AACACAT[G-a]ATACTTG	21	5	46.01	
cbr miR-64 nat as	TCCGTACACGCTTCAGTGCATG	23	5	61.61	
cbr miR-64 2mut as	TCCGTACAC[G-c]CTTCAG[T-c]GTCATG	23	5	63.3	
cbr miR-231 nat as	TCCTGCCTGTTGTTACGAGCTTA	24	5	63.32	
cbr miR-231 2mut as	TCCTG[C-t]CTGTTGTTCA[C-a]GAGCTTA	24	5	58.87	
cbr miR-356 nat as	GGATTTGTTGCGGTTGCTCAT	21	5	58.19	
cbr miR-356 2mut as	GGATTTGTTG[C-c][C-a]GTTGCTCAT	21	5	54.91	
cbr miR-83 nat as	ACACTGAATTTATATGGTGCTA	22	5	51.39	
cbr miR-83 2mut as	ACAC[T-c]GAATTTATAT[G-c]GTGCTA	22	5	53.84	
cbr miR-246 nat as	AGCTCCTACCCAATACATGTAA	22	5	54.84	
cbr miR-246 2mut as	AGCTCCTAC[C-t]CAATA[C-a]ATGTAA	22	5	50.77	
cbr miR-51 nat as	AACATGGCAAGGAGCTACGGGTA	23	5	62.65	
cbr miR-51 2mut as	AACATG[G-c]CAAGGAGCTAC[G-a]GGTA	23	5	60.44	
cbr miR-357 nat as	TCCGTCAATGACTGGCATTIT	21	5	56.65	
cbr miR-357 2mut as	TCCGTCAATG[A-c]CTG[G-c]CATTIT	21	5	59.36	
cbr miR-253 nat as	AGTTAGTGTAGTGAGGTGTG	21	5	53.04	
cbr miR-253 2mut as	AGTTAG[T-c]GTTAGTGAG[G-c]TGTG	21	5	56.13	
cbr miR-70 nat as	CTGGGAACACCAATCACGTATTA	23	5	57.16	
cbr miR-70 2mut as	CTGGGAACAC[C-a]AATCAC[G-c]TATTA	23	5	54.95	
cbr miR-358 nat as	CCACGACTAAGGATACCAATTG	22	5	54.96	
cbr miR-358 2mut as	CCAC[G-a]ACTAAGGATAC[C-a]AATTG	22	5	51.47	
cbr miR-61 nat as	GAGCAGAGTCAAGTTCTAGTCA	23	5	58.18	
cbr miR-61 2mut as	GAGCAGAG[T-c]CAAG[G-c]TTCTAGTCA	23	5	60.94	
cbr miR-239a nat as	CCAGTACCTAATTGTAGTACAAA	23	5	52.19	
cbr miR-239a 2mut as	CCAGTA[C-t]CTAATT[G-c]TAGTACAAA	23	5	49.55	
cbr miR-249 nat as	GCAACACTCAAAAATCCTGTGA	22	5	56.07	
cbr miR-249 2mut as	GCAAC[A-c]CTCAAAAAT[C-t]CTGTGA	22	5	56.08	
cbr miR-240 nat as	AGCGAAAATTTGGAGGCCAGTA	22	5	59.04	
cbr miR-240 2mut as	AGCGAAAATT[T-c]GGAGG[C-t]CAGTA	22	5	58.2	
cbr miR-254 nat as	TATACAGTTGCAAAAGATTTGCA	23	5	54.05	
cbr miR-254 2mut as	TATACAGTTG[C-a]AAAA[G-c]ATTTGCA	23	5	52.07	
cbr miR-239b nat as	CAGTACTTTTGTGCAGTACAA	21	5	52.44	
cbr miR-239b 2mut as	CAGTACTTTT[G-c]TG[C-a]AGTACAA	21	5	49.17	
cbr miR-55 nat as	CTCGGCAGAAAAATATACGGGTA	23	5	57.02	
cbr miR-55 2mut as	CTCG[G-c]CAGAAAAATATAC[G-a]GGTA	23	5	54.82	
cbr miR-84 nat as	GACAGCATTGCAAACTACCTCA	22	5	57.58	
cbr miR-84 2mut as	GACAGCATTG[C-a]AAACTA[C-t]CTCA	22	5	52.85	
cbr miR-35 nat as	CTTGCAAGTTTTACCCGGTGA	22	5	60.26	
cbr miR-35 2mut as	CTTG[C-a]AAGTTTTACCC[G-a]GTGA	22	5	55.42	
cbr miR-36 nat as	ATTGCGAATTTTACCCGGTGA	22	5	59.84	
cbr miR-36 2mut as	ATTG[C-a]GAATTTTACCC[G-a]GTGA	22	5	54.36	
cbr miR-38 nat as	ATACCAGTTGTCTCCCGGTGA	22	5	61.4	
cbr miR-38 2mut as	ATAC[C-a]AGGTTGTCTCCCG[G-a]GTGA	22	5	57.28	
cbr miR-39 nat as	CTAACCGTTTTTACCCGGTGA	22	5	59.47	
cbr miR-39 2mut as	CTAAC[C-a]GTTTTTACCC[G-a]GTGA	22	5	54.89	
cbr miR-40 nat as	CTAGCTGATTGACACCCGGTGA	22	5	60.5	

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Probe Name	Probe Sequence	Length	Replicates	Tm	Annotations
cbr miR-40 2mut as	CTAG[C-t]TGATTGACACCC[G-a]GTGA	22	5	56.16	
cbr miR-41 nat as	TGGGAGTTTTTCACCCGGTGA	21	5	60.12	
cbr miR-41 2mut as	TGGGA[G-c]TTTTTCACCC[G-a]GTGA	21	5	57.68	
sme bantam-a nat as	CCAGCTTTCATAGTGATCTCA	21	5	53.24	
sme bantam-a 2mut as	CCAG[C-t]TTTCATAG[T-c]GATCTCA	21	5	53.88	
sme bantam-b nat as	ATCAGCTTTCGCAGTGATCTCA	22	5	58.52	
sme bantam-b 2mut as	ATCAGCTTTC[G-c][C-a]AGTGATCTCA	22	5	55.91	
sme bantam-c nat as	AAAAGCTTTCATATGATCTCA	22	5	50.19	
sme bantam-c 2mut as	AAAAG[C-t]TTTCATAAT[G-a]ATCTCA	22	5	45.78	
sme let-7a nat as	AGTCATCCAACATTCTACCTCA	22	5	55.04	
sme let-7a 2mut as	AGTCATC[C-a]AACATTCTA[C-t]CTCA	22	5	51.06	
sme let-7b nat as	AGTCATCCAACAATCTACCTCA	22	5	55.04	
sme let-7b 2mut as	AGTCATC[C-a]AACAATCTA[C-t]CTCA	22	5	51.06	
sme let-7b* nat as	GAGAAGACAGATAGTTGAATGG	22	5	52.39	
sme let-7b* 2mut as	GAGAAGA[C-a]AGATAGTT[G-a]AATGG	22	5	48.41	
sme let-7c nat as	AACCTTTTGAGTCACTACCTCA	22	5	55.44	
sme let-7c 2mut as	AACCTTTT[G-a]AGTCACTA[C-t]CTCA	22	5	50.91	
sme lin-4 nat as	ACACAGTCGAAGGTCTCAGGGA	22	5	61.26	
sme lin-4 2mut as	ACACAGT[C-a]GAAG[G-c]TCTCAGGGA	22	5	58.75	
sme miR-1a nat as	ATGCATATTTCTCGACATTCCA	22	5	54.36	
sme miR-1a 2mut as	ATGCATATTT[C-t]T[C-a]GACATTCCA	22	5	50.24	
sme miR-1b nat as	GACCATAATTCACGACATTCCA	22	5	54.89	
sme miR-1b 2mut as	GACCATAATT[C-a][C-a]GACATTCCA	22	5	50.28	
sme miR-1c nat as	GACACTATTCACAACATTCCA	21	5	51.94	
sme miR-1c 2mut as	GACACTATTC[A-c]CAA[C-a]ATTCCA	21	5	51.9	
sme miR-2a nat as	AGCGTCCAAGCGGGGCTGTGATA	24	5	67.61	
sme miR-2a 2mut as	AGCGTCCAAG[C-a]GGG[G-c]CTGTGATA	24	5	64.85	
sme miR-2a* nat as	ATATCACAAACCCGTAGAAC	20	5	50.54	
sme miR-2a* 2mut as	ATATC[A-c]CAACAC[C-a]GTAGAAC	20	5	49.8	
sme miR-2b* nat as	CTGACAACCAACAATGATGA	20	5	51.6	
sme miR-2b* 2mut as	CTGACAAC[C-a]AA[C-a]AATGATGA	20	5	47.86	
sme miR-2b nat as	ATCTCATAAAATTGGCTGTGA	22	5	54.76	
sme miR-2b 2mut as	ATCTCAT[C-a]AAAATTG[G-c]CTGTGA	22	5	52.48	
sme miR-2c nat as	AGATCATCAGTTTTGGCTGTGA	22	5	56.44	
sme miR-2c 2mut as	AGATCATC[A-c]GTTTTG[G-c]CTGTGA	22	5	58.76	
sme miR-2d nat as	GGACATCAAATTTGGCTGTGA	21	5	55.19	
sme miR-2d 2mut as	GGACAT[C-a]AAATTTG[G-c]CTGTGA	21	5	52.83	
sme miR-7a nat as	TCAAATAAATCAATAGTCTTCCA	23	5	51.84	
sme miR-7a 2mut as	TCAAATAAAT[C-a]AATAG[T-c]CTTCCA	23	5	52.16	
sme miR-7b nat as	ACAACGAAATCGACAGTCTTCCA	23	5	59.15	
sme miR-7b 2mut as	ACAA[C-a]GAAATCGA[C-a]AGTCTTCCA	23	5	55.33	
sme miR-7c nat as	TCAGCAAATCATCAGTCTTCCA	22	5	56.17	
sme miR-7c 2mut as	TCAG[C-a]AAATCATCAG[T-c]CTTCCA	22	5	56.18	
sme miR-8 nat as	GGCATCGTTACCTGACAGTATTA	23	5	56.71	
sme miR-8 2mut as	GGCATC[G-c]TTACCTGA[C-a]AGTATTA	23	5	54.5	
sme miR-10 nat as	TCAAACCTCGGATCTACAGGGTT	22	5	57.32	
sme miR-10 2mut as	TCAAACCTC[G-a]GATCTACA[G-c]GGTT	22	5	55.56	
sme miR-10* nat as	TTCACCTTGAAGATTCTGA	18	5	47.71	
sme miR-10* 2mut as	TTCA[C-t]CTTGAA[G-c]ATTCTGA	18	5	45.74	
sme miR-12 nat as	TCGACTCCTGATAGAATACTCA	22	5	53.76	
sme miR-12 2mut as	TCGACT[C-t]CTGATA[G-c]AATACTCA	22	5	52.56	
sme miR-13 nat as	GCTCTTTAGCATGACTGTGATA	22	5	54.37	
sme miR-13 2mut as	GCTCTTTAG[C-a]ATGACTG[T-c]GATA	22	5	54.43	
sme miR-745 nat as	ACACAGCTCTTAACCAGGCAGCA	23	5	63.3	
sme miR-745 2mut as	ACACAG[C-t]TCTTAACCAG[G-c]CAGCA	23	5	61.34	
sme miR-746 nat as	ATCCCGATATACCCTGGTGCTA	22	5	58.52	

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Probe Name	Probe Sequence	Length	Replicates	Tm	Annotations
sme miR-746 2mut as	ATCC[C-a]GATATAC[C-t]CTGGTGCTA	22	5	53.81	
sme miR-31a nat as	TCAGTTATGCCAACATCTTGCCCT	23	5	59.32	
sme miR-31a 2mut as	TCAGTTATG[C-t]CAA[C-a]ATCTTGCCCT	23	5	55.14	
sme miR-31b nat as	TCAGCTATGCCAGCATCTTGCCCT	23	5	63.27	
sme miR-31b 2mut as	TCAGCTATG[C-t]CAG[C-a]ATCTTGCCCT	23	5	58.29	
sme miR-36* nat as	AAACCAAGTAGCATGCATCA	20	5	53.47	
sme miR-36* 2mut as	AAAC[C-a]AAGTAGCATG[C-a]ATCA	20	5	48.71	
sme miR-36 nat as	TAATGAATGTCTACCCGGTGA	21	5	54.35	
sme miR-36 2mut as	TAATGAAT[G-c]TCTACCC[G-a]GTGA	21	5	51.29	
sme miR-61 nat as	ACAGTAAGTGAACCTTCTAGTCA	23	5	53.66	
sme miR-61 2mut as	ACAGTAAG[T-c]GAA[C-t]TTTCTAGTCA	23	5	54.62	
sme miR-71a nat as	ATCTCACTACCCGTGTCTTTCA	22	5	57.31	
sme miR-71a 2mut as	ATCTCACTAC[C-t][C-a]GTGTCTTTCA	22	5	52.14	
sme miR-71b nat as	GTCCCACTACCTGTGTCTTTCA	22	4	58.09	
sme miR-71b 2mut as	GTCC[C-a]ACTACCTG[T-c]GTCTTTCA	22	4	58.95	
sme miR-71b* nat as	CGAAAAACACATTAGAAGGA	20	4	49.17	
sme miR-71b* 2mut as	CGAAAAAC[A-c]CATT[A-g]AAGGA	20	4	51.6	
sme miR-71c nat as	ATCTCACTACCCATGTCTTTCA	22	4	55.04	
sme miR-71c 2mut as	ATCTCACTAC[C-t][C-a]ATGTCTTTCA	22	4	50.45	
sme miR-79 nat as	GCACTTTGGTAATTTAGCTTTAC	23	4	53.12	
sme miR-79 2mut as	GCACTTT[G-c]GTAATTTAG[C-t]TTTAC	23	4	51.29	
sme miR-87a nat as	TACACTTGAAACTTTGCTCA	20	4	50.78	
sme miR-87a 2mut as	TACACTT[G-a]AAACTTT[G-c]CTCA	20	4	47.26	
sme miR-87b nat as	CTCATTTGAAGCTTTGCTCAC	21	4	54.09	
sme miR-87b 2mut as	CTCATTTGAA[G-c]CTTT[G-c]CTCAC	21	4	52.85	
sme miR-92 nat as	GATAATTAAC TAGTGAATC	20	4	44.59	
sme miR-92 2mut as	GATAATTAAC[C-t]TAGTG[C-a]AATC	20	4	39.89	
sme miR-124a nat as	AAGCATTACCCGCGTGCCTTA	21	4	61.39	
sme miR-124a 2mut as	AAGCATTAC[C-a]G[C-a]GTGCCTTA	21	4	55.75	
sme miR-124b nat as	TCAGCATTACCCGCGTGCCTTA	22	4	63.5	
sme miR-124b 2mut as	TCAG[C-a]ATTCACCG[C-a]GTGCCTTA	22	4	57.9	
sme miR-124c* nat as	ACAAAGGTCACGAGGTGAGCGC	22	4	63.9	
sme miR-124c* 2mut as	ACAAAGGTCAC[C-a][G-a]AGGTGAGCGC	22	4	60.55	
sme miR-125a nat as	ATGCAGTCAATGGTCTCAGGGA	22	4	59.97	
sme miR-125a 2mut as	ATGCAG[T-c]CAAT[G-c]GTCTCAGGGA	22	4	62.57	
sme miR-125a* nat as	ATCCTGATACCAAAAACTAC	20	4	47.88	
sme miR-125a* 2mut as	ATCCTGATA[C-t][C-a]AAAACTAC	20	4	42.93	
sme miR-125b nat as	AGGCATATTATGATCTCAGGGA	22	4	54.43	
sme miR-125b 2mut as	AGGCATATTA[T-c]GATCTC[A-c]GGGA	22	4	59.07	
sme miR-133 nat as	TGCTGGTTGATGGGGACCAA	20	4	59.7	
sme miR-133 2mut as	TGCT[G-c]GTTGATGG[G-t]GACCAA	20	4	57.75	
sme miR-184 nat as	TTCTTAGCAAACCTCCGTC	20	4	55.36	
sme miR-184 2mut as	TTCTTAG[C-a]AAA[C-t]CTCCGTC	20	4	50.13	
sme miR-190a nat as	TCACCAATTAACCAACATATCT	23	4	52.68	
sme miR-190a 2mut as	TCAC[C-a]AATTAAC[C-a]AAACATATCT	23	4	49.35	
sme miR-190a* nat as	TGGATATGCTCGGTCAAGTGGT	21	4	59.19	
sme miR-190a* 2mut as	TGGATAT[G-c]CTC[G-a]GTCAGTGGT	21	4	55.85	
sme miR-190b nat as	TCACCAATAAACCACATATCA	23	4	52.95	
sme miR-190b 2mut as	TCAC[C-a]AATAAAC[C-a]AAACATATCA	23	4	49.63	
sme miR-190b* nat as	ACACGATACATTAGGCTAATGGT	23	4	56.17	
sme miR-190b* 2mut as	ACAC[G-a]ATACATTAG[G-c]CTAATGGT	23	4	54.43	
sme miR-747 nat as	ACTTCAATTACCAGATGAGATTA	23	4	51.64	
sme miR-747 2mut as	ACTTCAATTAC[C-a][A-c]GATGAGATTA	23	4	52.26	
sme miR-219 nat as	TGAGAAGTGCATGACCAATCA	23	4	58.75	
sme miR-219 2mut as	TGAGAAGTGCAT[G-c]GAT[G-c]GACCAATCA	23	4	55.77	
sme miR-277a nat as	GTCATATCCGATAGTGCAATTA	22	4	51.99	

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Probe Name	Probe Sequence	Length	Replicates	Tm	Annotations
sme miR-277a 2mut as	GTCATATC[C-a]GATAGTG[C-a]ATTTA	22	4	47.01	
sme miR-277b* nat as	GAAGCTGCATTTCTGATCAA	20	4	52.05	
sme miR-277b* 2mut as	GAAGCTG[C-a]ATTT[C-t]GATCAA	20	4	51.77	
sme miR-277b nat as	TCTTGCCAGATAATGCATTTT	22	4	55.1	
sme miR-277b 2mut as	TCTTGG[C-t]CAGATAATG[C-a]ATTTT	22	4	49.83	
sme miR-277c nat as	ATCATACCAGATAATGCATTTA	22	4	49.2	
sme miR-277c 2mut as	ATCATAC[C-a]AGATAATG[C-a]ATTTA	22	4	44.78	
sme miR-278 nat as	TCGAATGTTACTCCCACCGA	20	4	56.31	
sme miR-278 2mut as	TCGAAT[G-c]TACTC[C-t]CACCGA	20	4	53.26	
sme miR-281* nat as	ACCTCATGAATAGCTCTTCA	20	4	51.31	
sme miR-281* 2mut as	ACCTCAT[G-a]AATAG[C-t]CTTCA	20	4	46.45	
sme miR-281 nat as	GAAGAGCATATCCATGACA	19	4	49.21	
sme miR-281 2mut as	GAAGAG[C-a]ATATC[C-a]ATGACA	19	4	44.23	
sme miR-67 nat as	ACCCTCGTTCATGGAGGTTGTGA	23	4	62.53	
sme miR-67 2mut as	ACCCTC[G-c]TTCAT[G-c]GAGGTTGTGA	23	4	62.05	
sme miR-748 nat as	CTCATTACACTCCGTTCCA	19	4	51.69	
sme miR-748 2mut as	CTCATTAC[A-c]CTTC[C-a]GTCCA	19	4	50.94	
sme miR-749 nat as	ACCACCGAGGCTCATCCCAGC	21	4	64.82	
sme miR-749 2mut as	ACCACCGAG[G-c]CTCATC[C-t]CAGC	21	4	62.41	
sme miR-750 nat as	AGAACTGGAAGAGTTAGATCTGA	23	4	54.89	
sme miR-750 2mut as	AGAACT[G-c]GAAGA[G-c]TTAGATCTGA	23	4	54.95	
sme miR-751 nat as	TGTCATGGCCATTCAAACATG	21	4	55.53	
sme miR-751 2mut as	TGTCATGG[C-t]CATT[C-a]AAACATG	21	4	50.48	
sme miR-752 nat as	AAACCACCAATGCTGACT	18	4	51.4	
sme miR-752 2mut as	AAACCAC[C-a]AAT[G-c]CTGACT	18	4	48.18	
sme miR-753 nat as	TGAGATCACAATCCAAGCTC	20	4	52.97	
sme miR-753 2mut as	TGAGATC[A-c]CAATC[C-a]AAGCTC	20	4	52.96	
sme miR-754 nat as	TAGTAATAACCCCAAGCAAC	20	4	50.39	
sme miR-754 2mut as	TAGTAATAA[C-t]C[C-t]CAAGCAAC	20	4	45.55	
sme miR-755 nat as	GGTGAAATACAATAGCTCCA	20	4	50.48	
sme miR-755 2mut as	GGTGAAATA[C-a]AATAG[C-t]TCCA	20	4	46.28	
sme miR-756 nat as	TCATCCAAATTACCACATATCG	22	4	52.44	
sme miR-756 2mut as	TCATC[C-a]AAATTAC[C-a]ACATATCG	22	4	49.04	
sme miR-277d nat as	CTTGCCAGATAAATGCATTTA	22	4	53.5	
sme miR-277d 2mut as	CTTGG[C-t]CAGATAAATG[C-a]ATTTA	22	4	48.28	