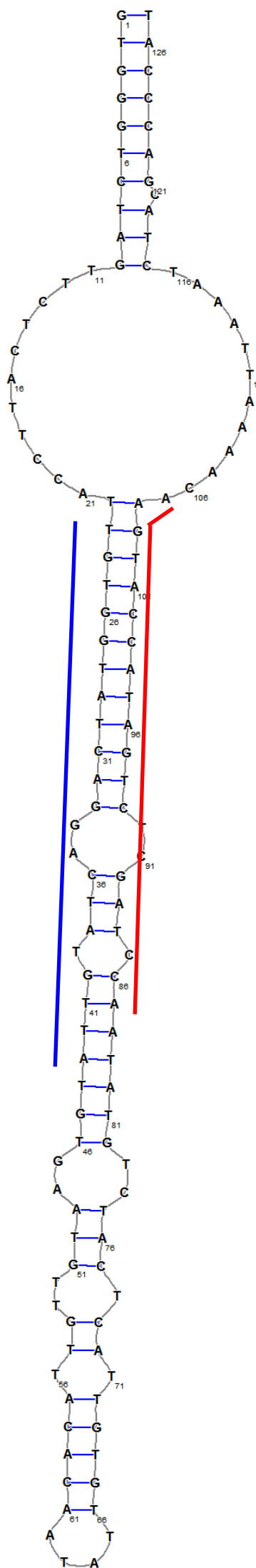
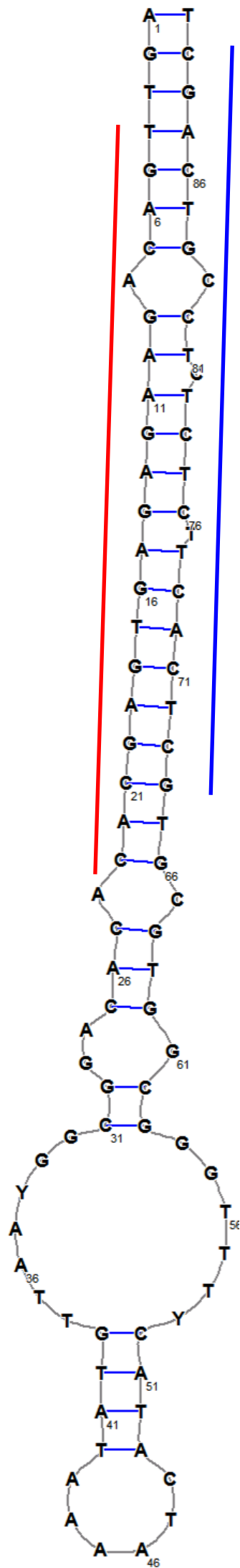


Figure S1 Secondary structure-based identification of the microRNA*s (miRNA*s) in apple. The mature miRNAs (based on miRBase release 19) and the miRNA*s were denoted by red and blue lines on the pre-miRNAs (precursor microRNAs) respectively. The secondary structures of the pre-miRNAs were predicted by using RNAshapes. miRNA*s were identified based on secondary structures and abundances (refer to **Data S1**).

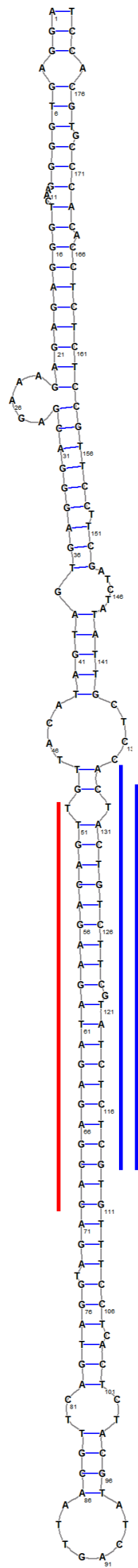
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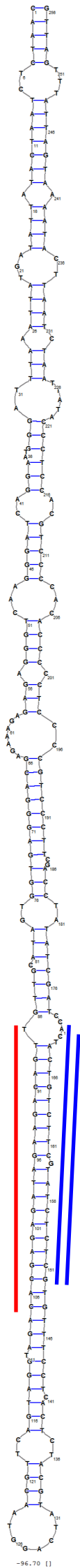
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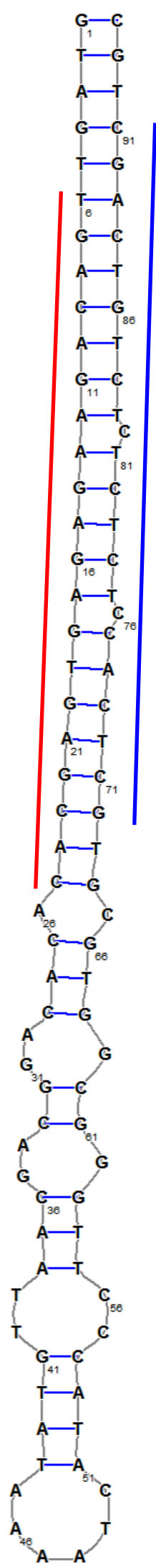
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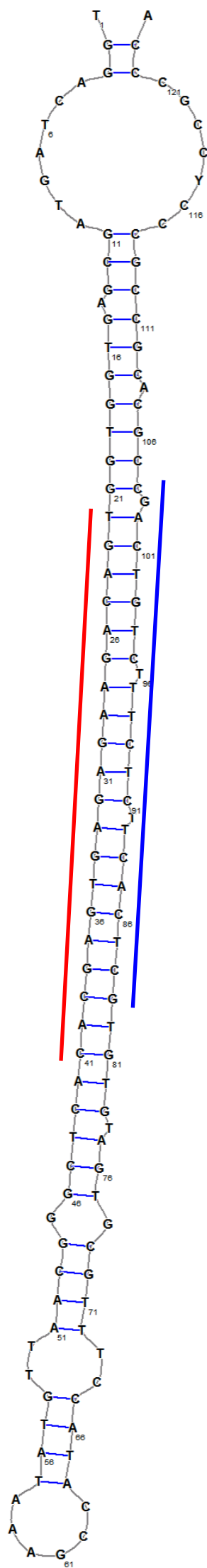
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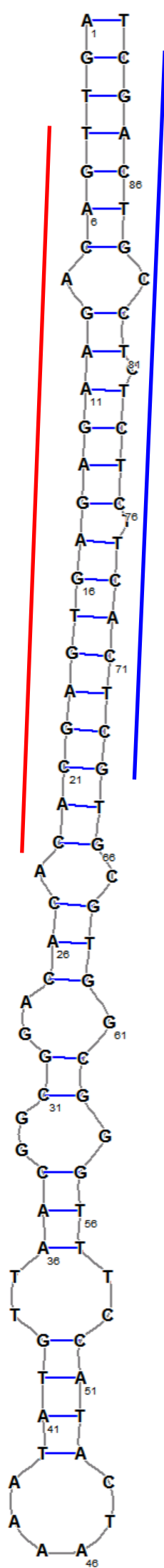
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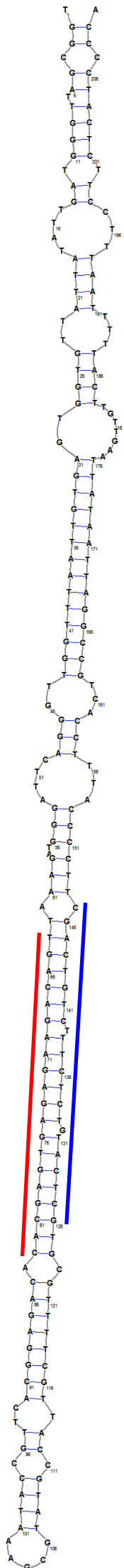
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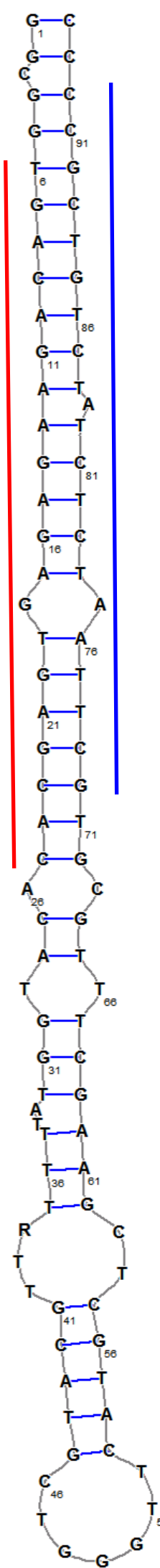
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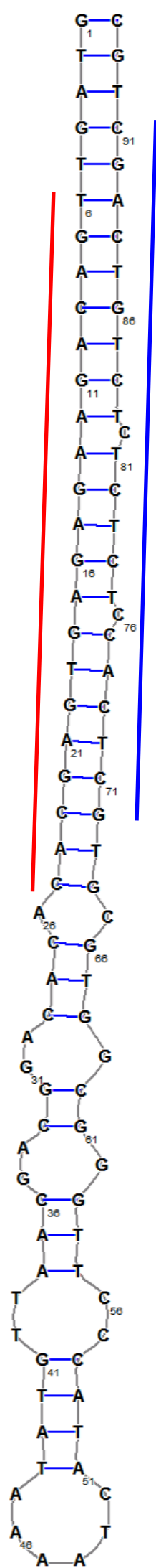
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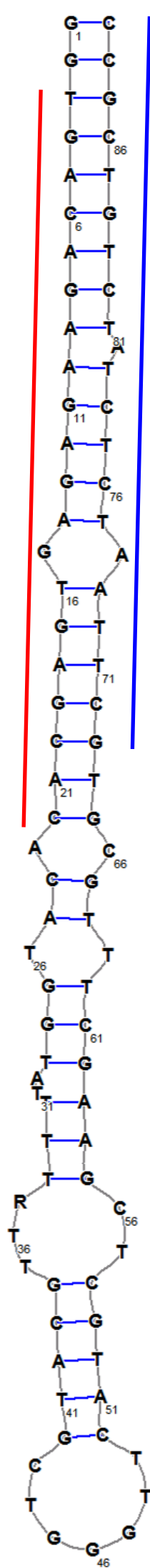
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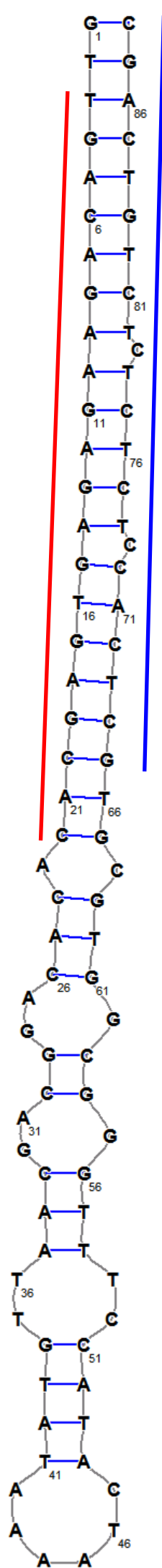
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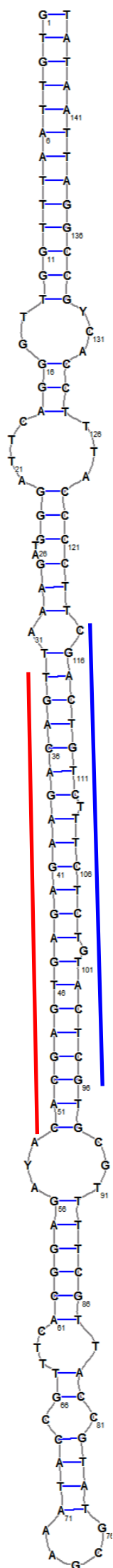
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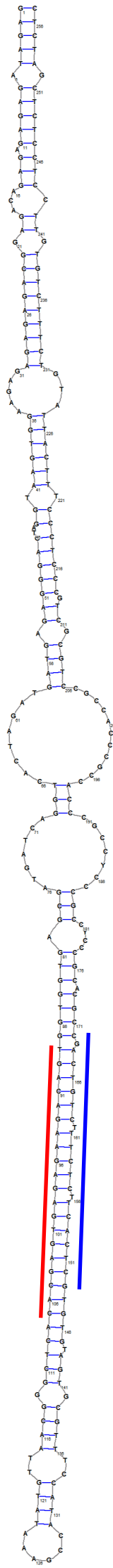
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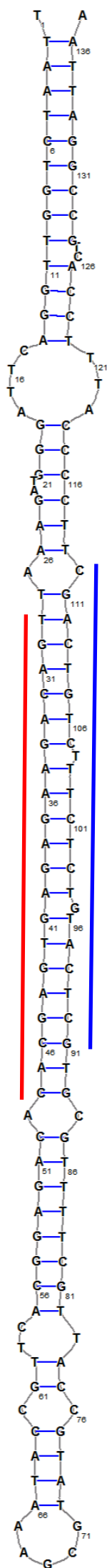
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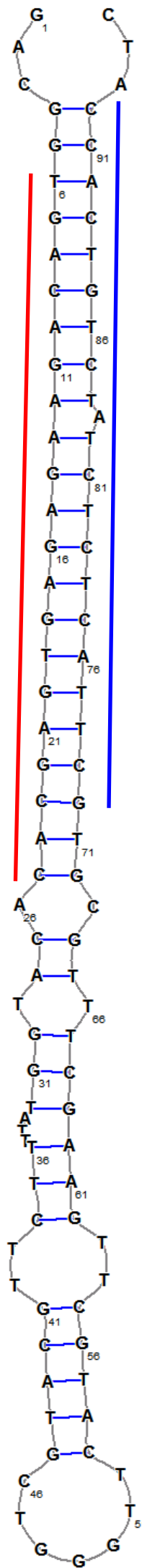
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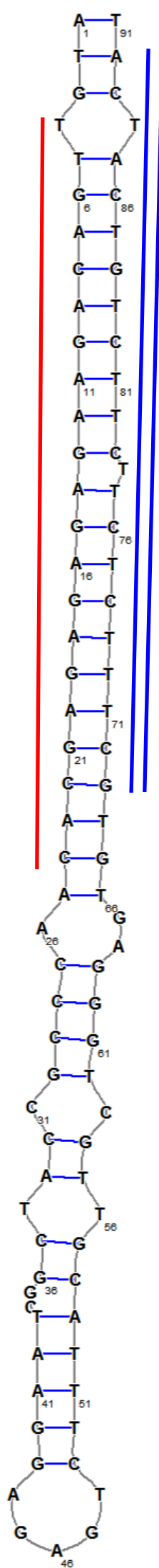
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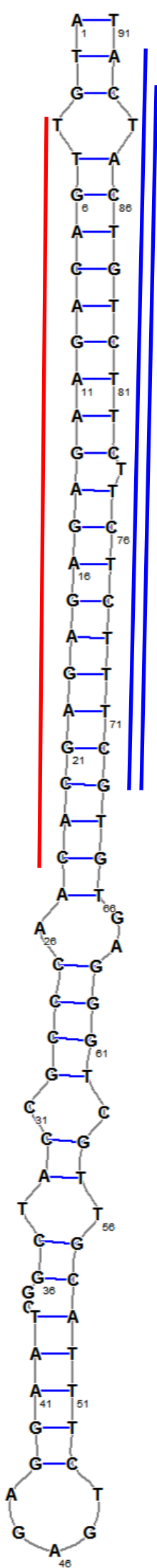
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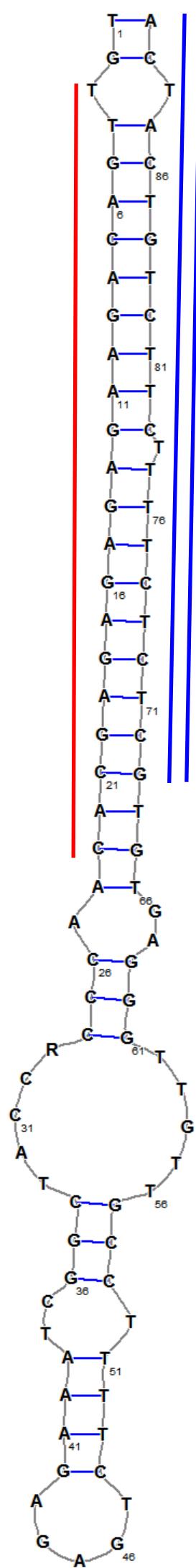
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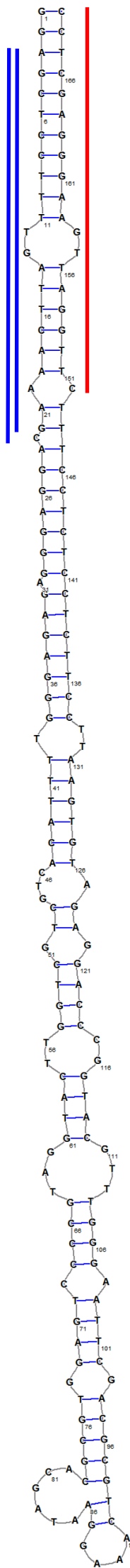
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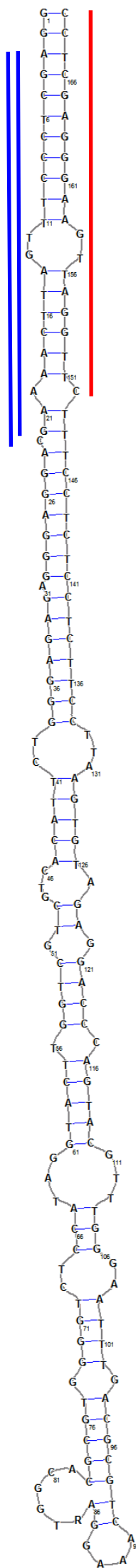
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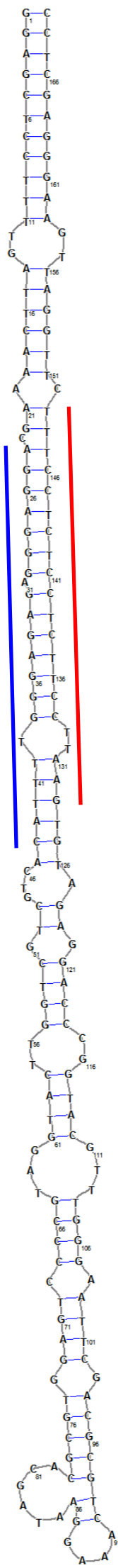
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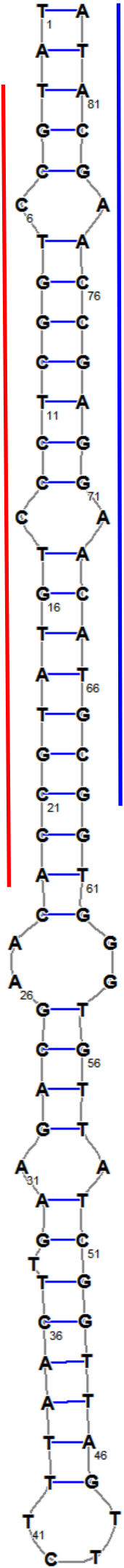
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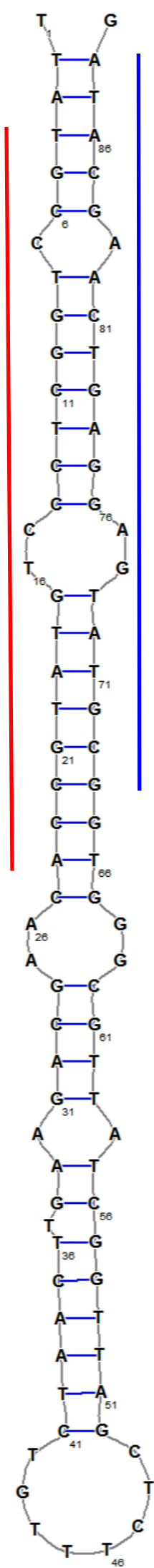
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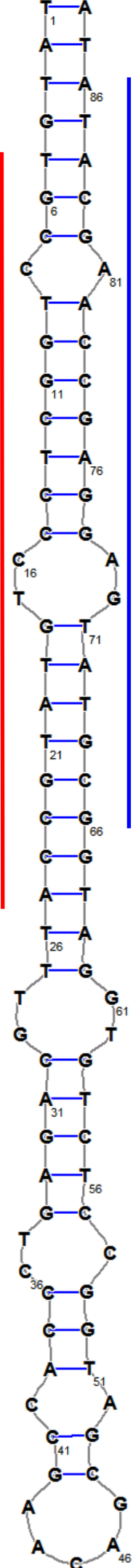
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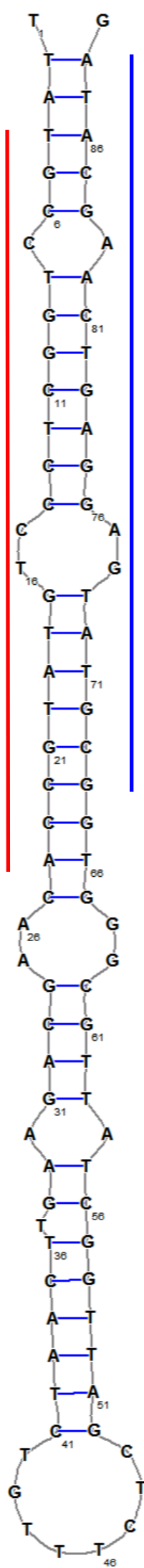
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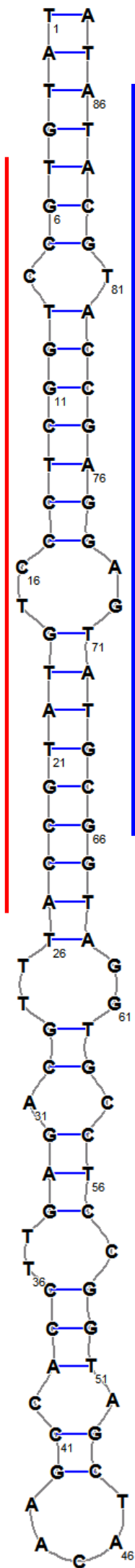


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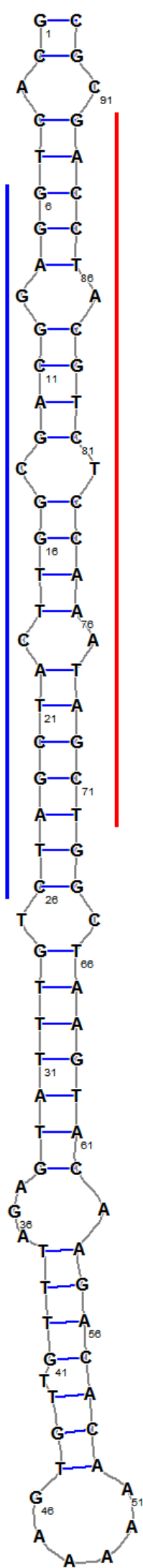


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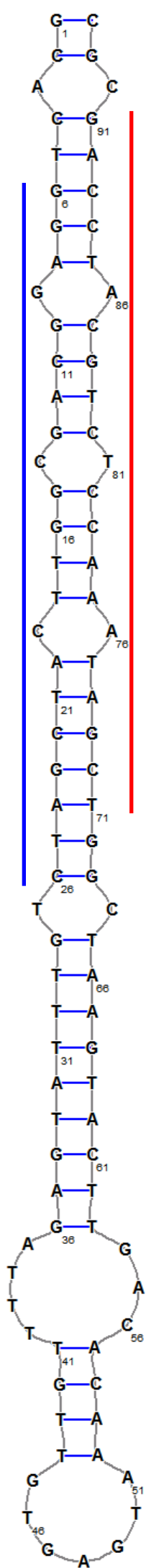
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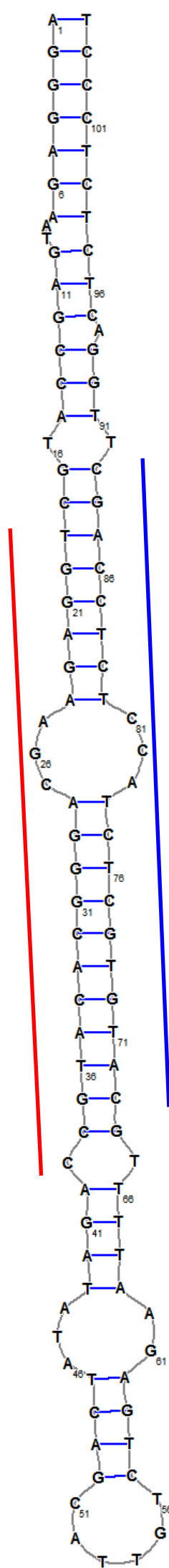
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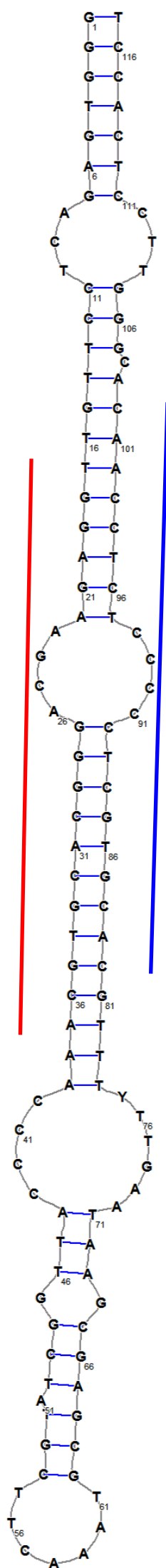
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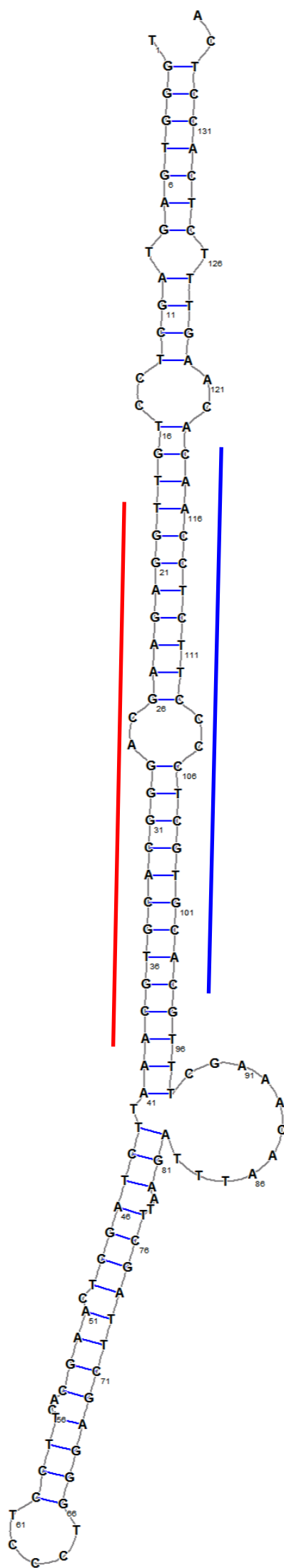
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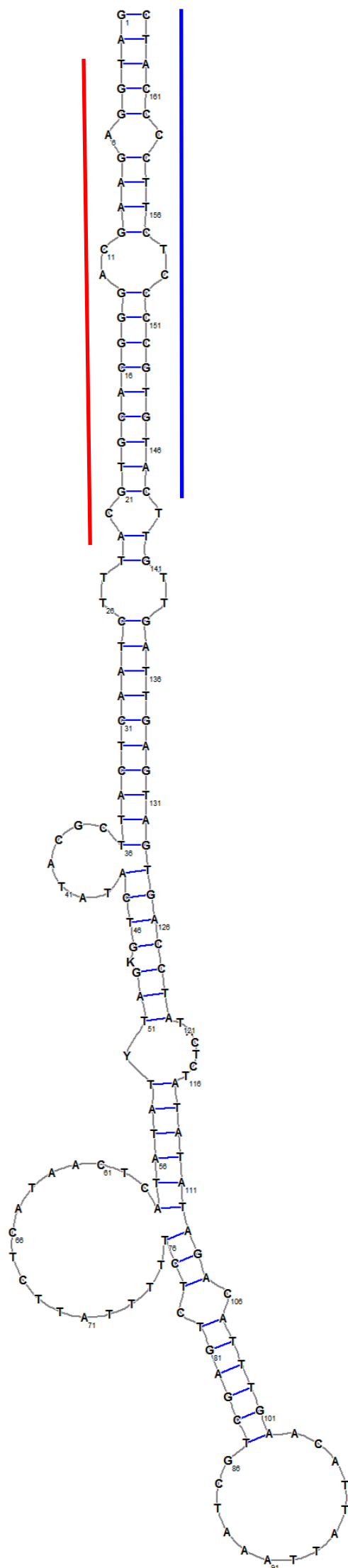
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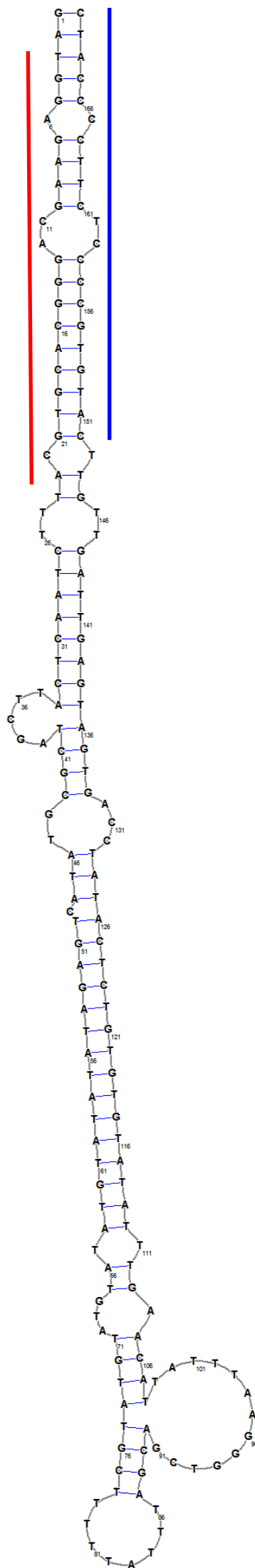
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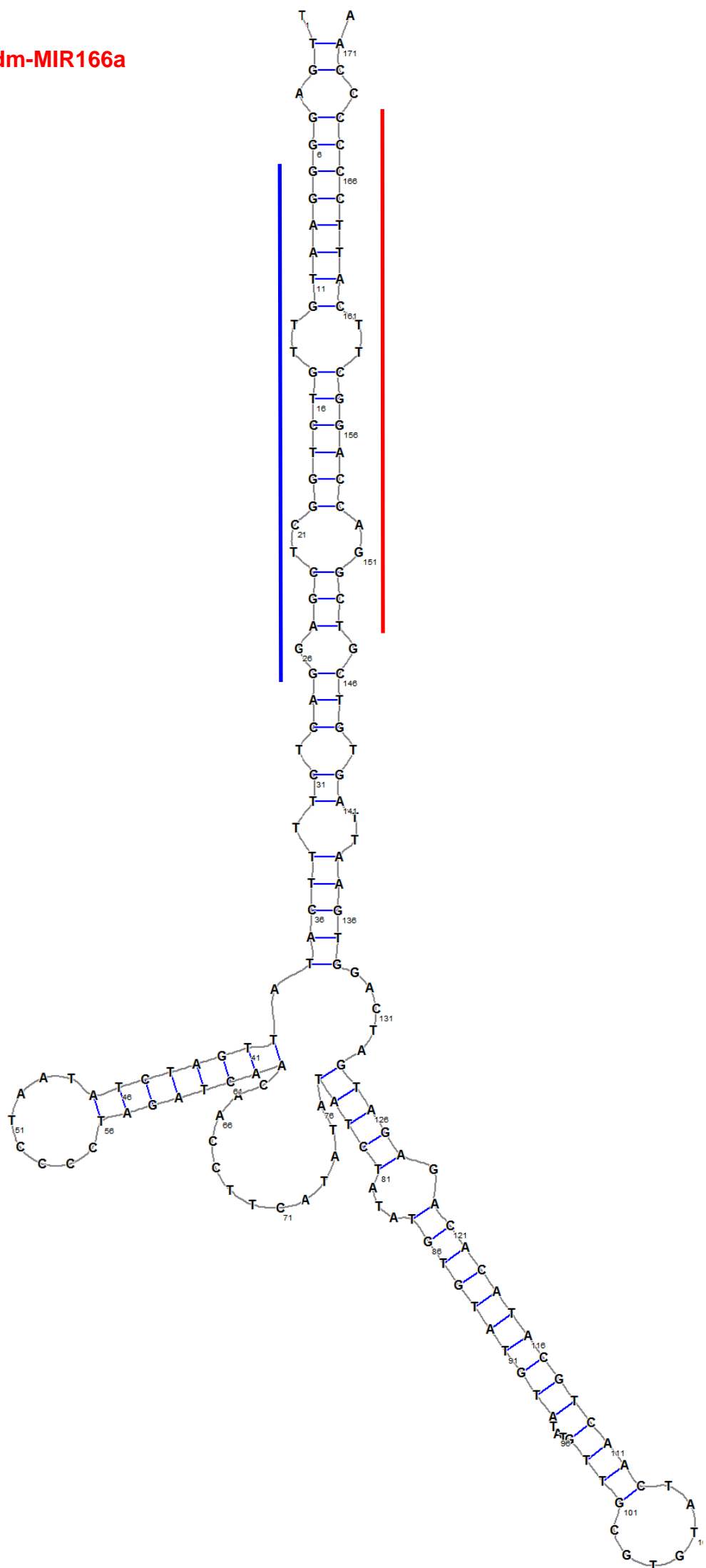
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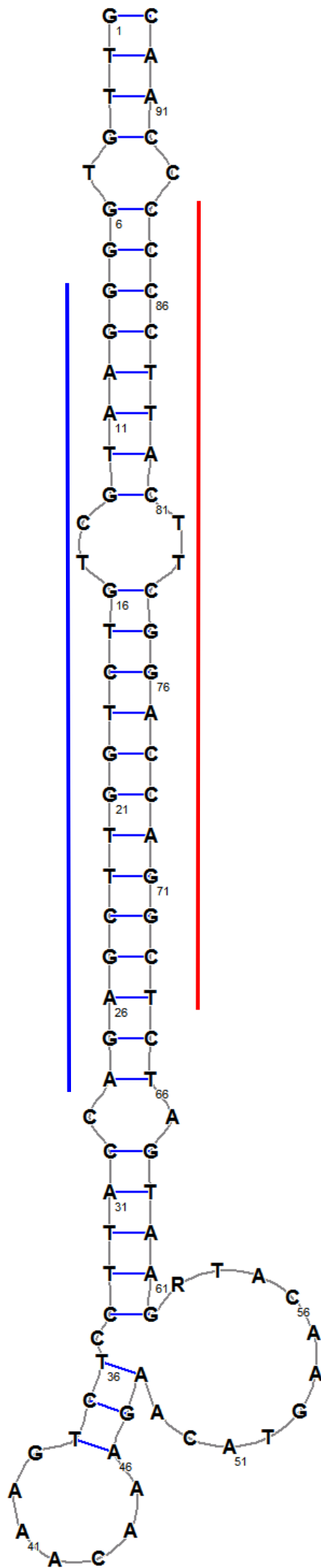
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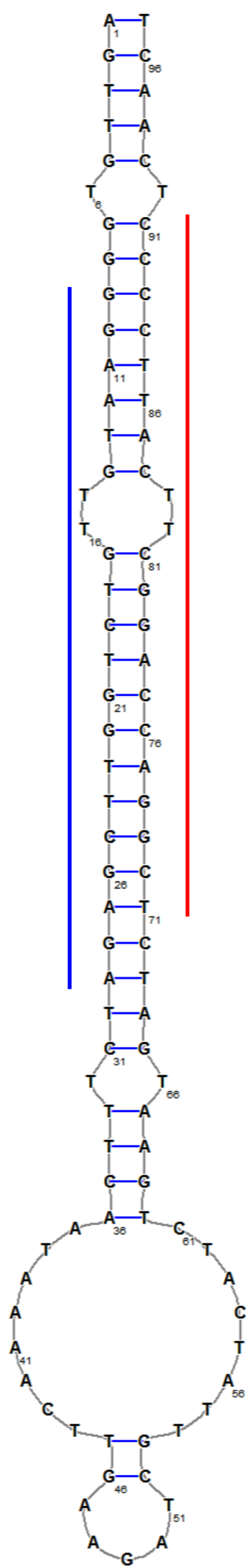
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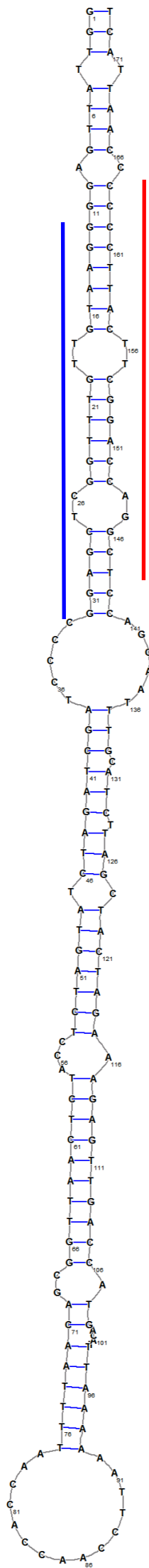
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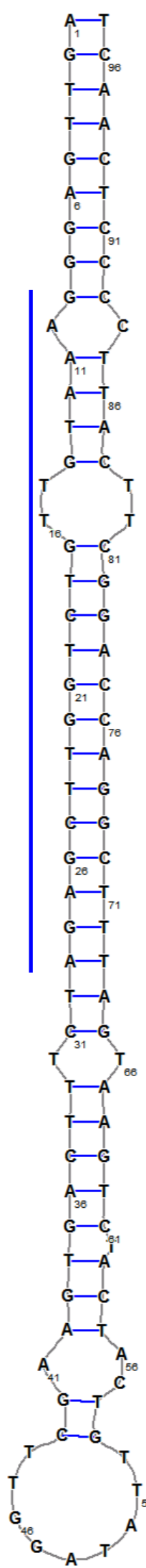
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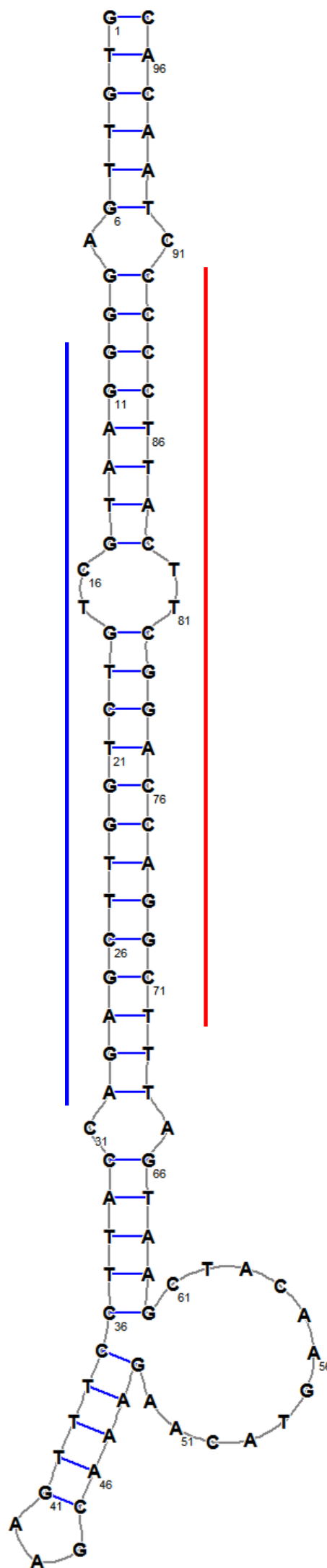
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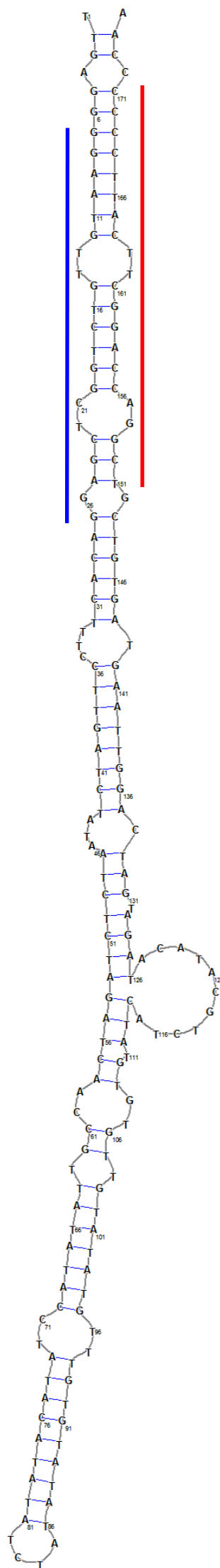
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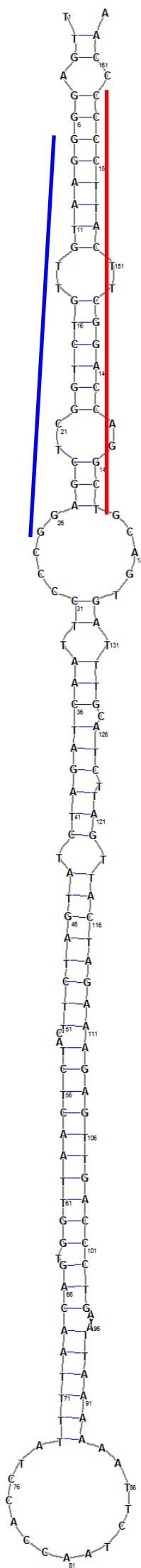
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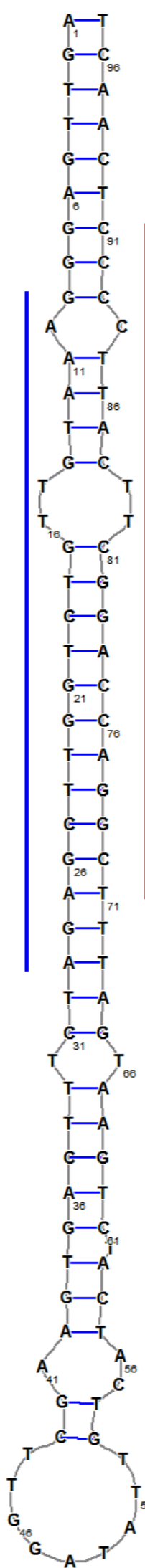
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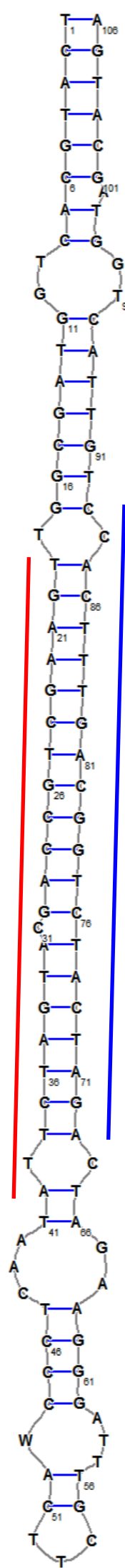
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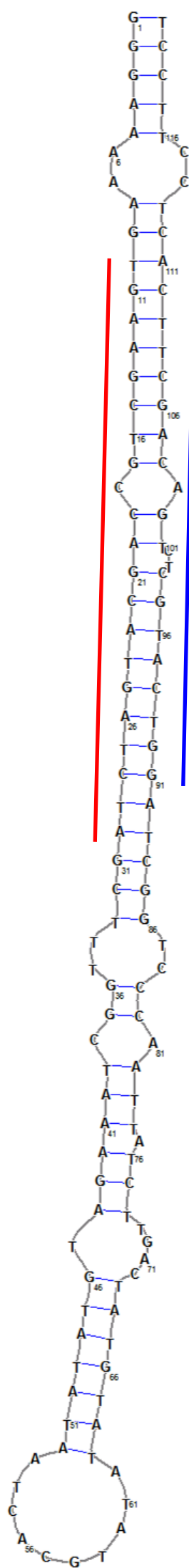
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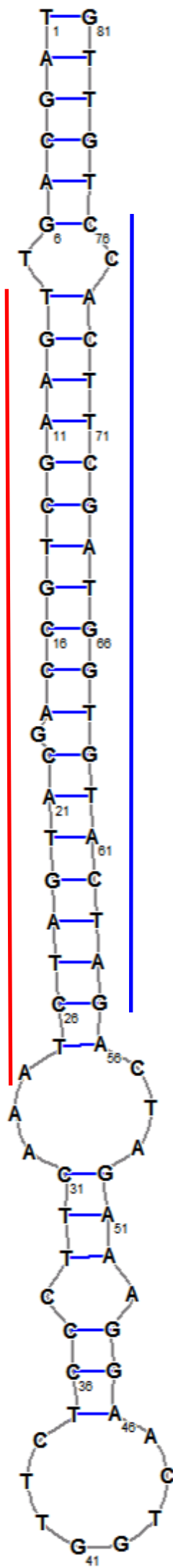
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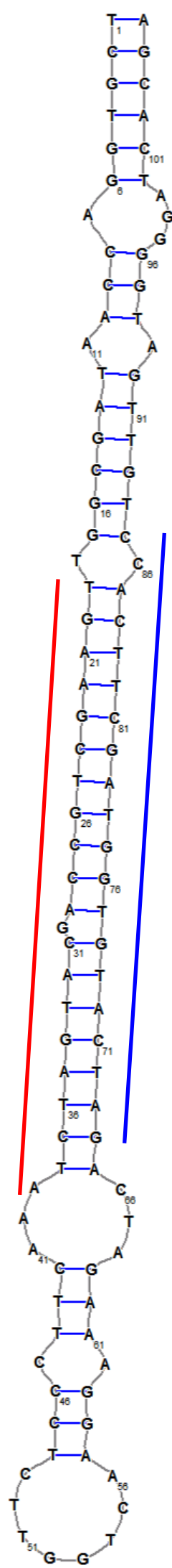
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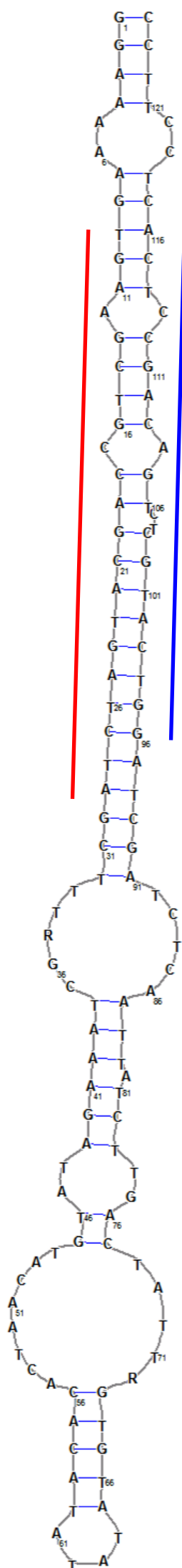
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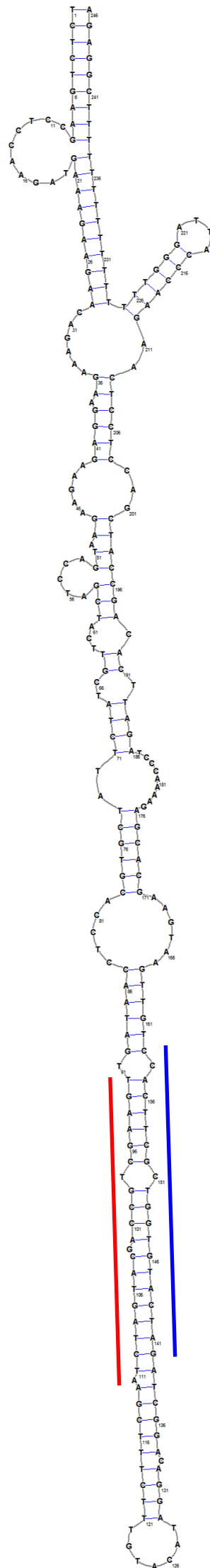
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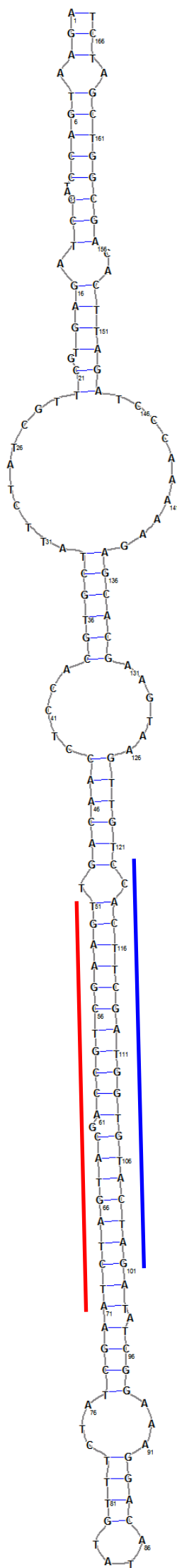
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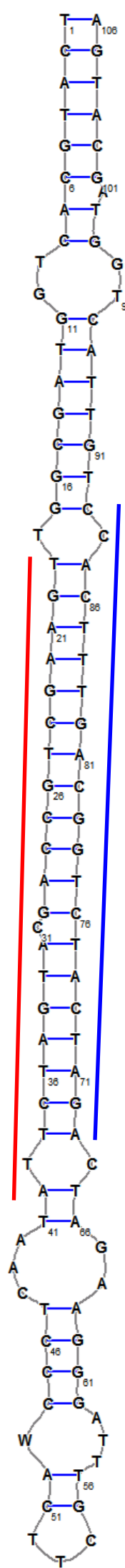
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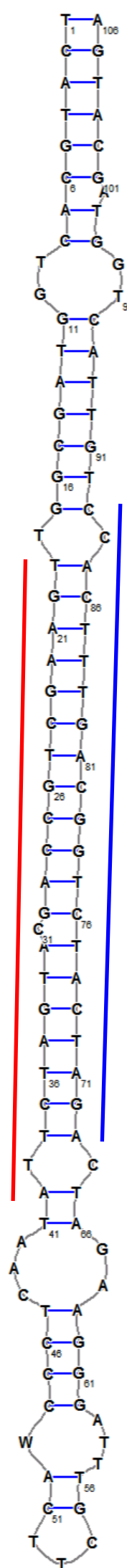
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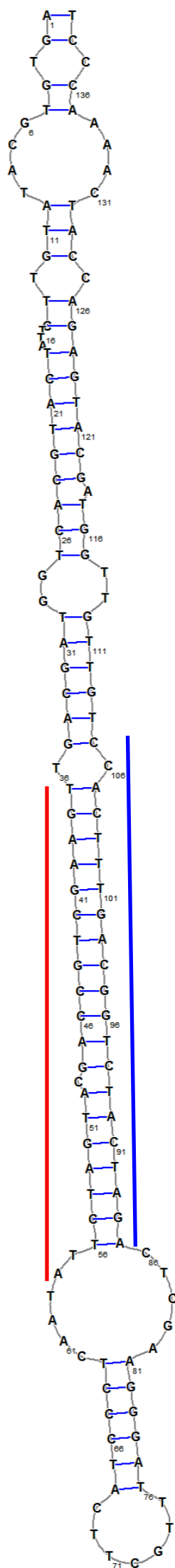
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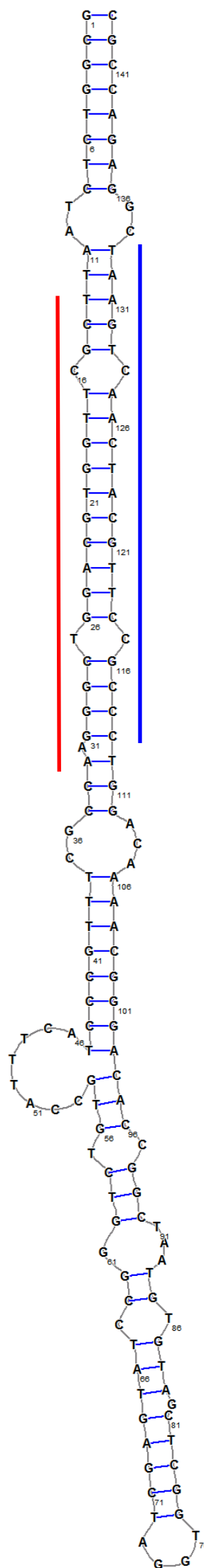
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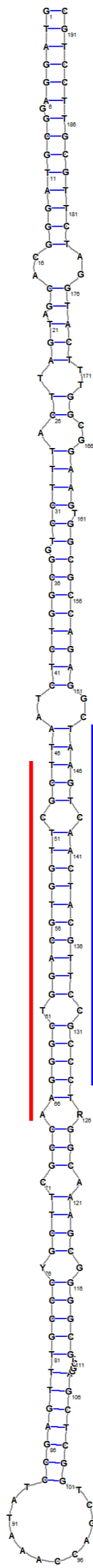
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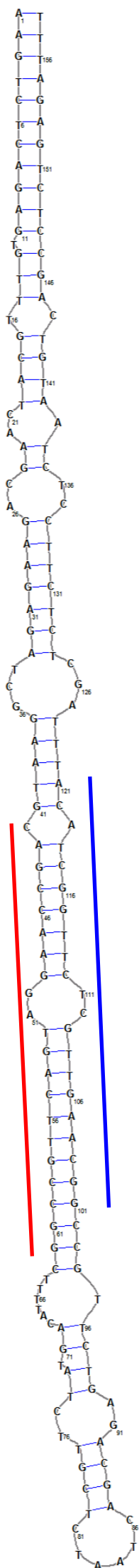
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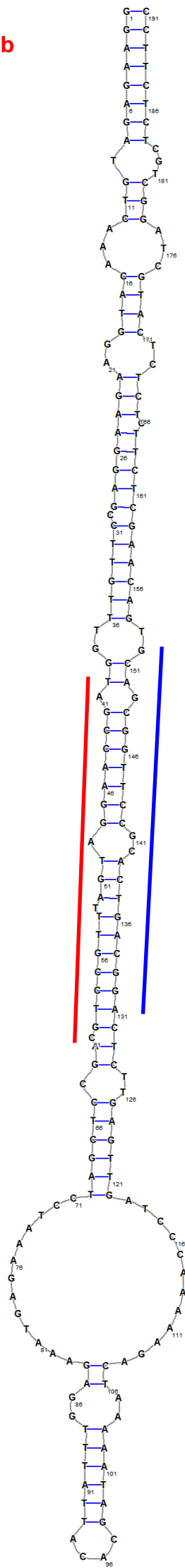
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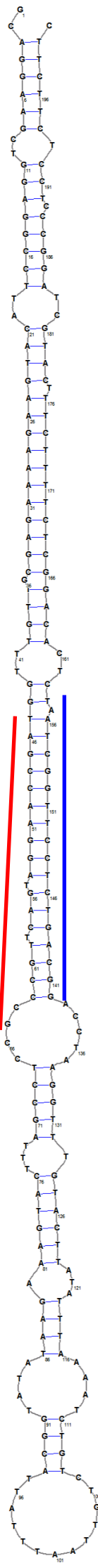
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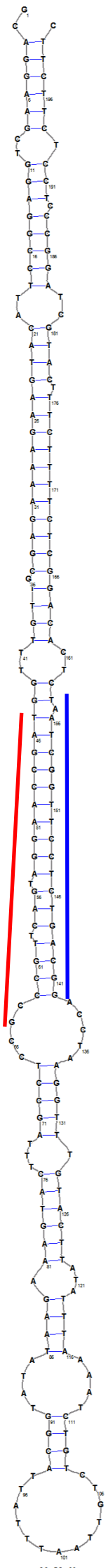
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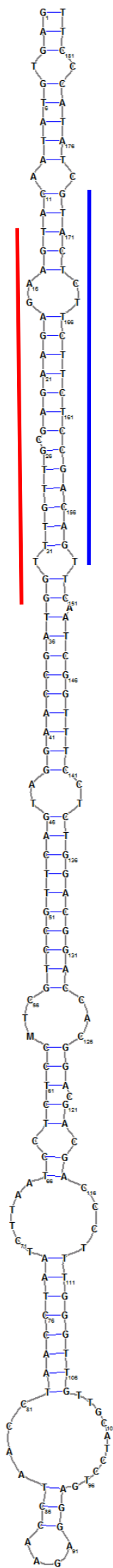
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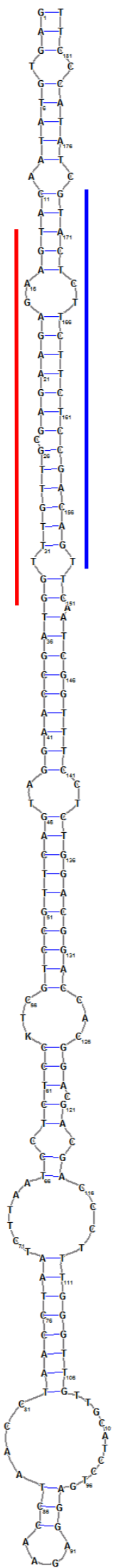
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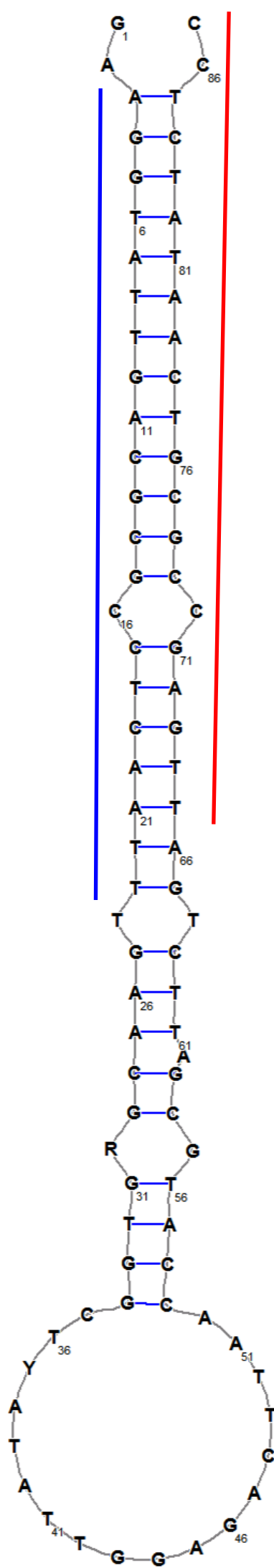
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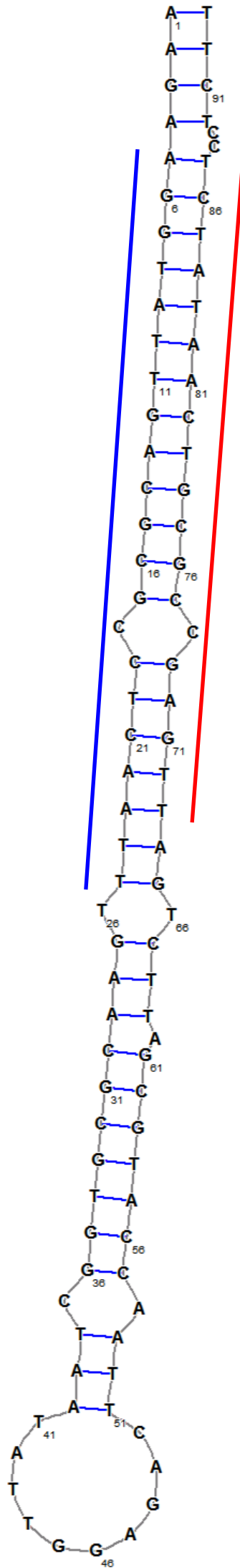
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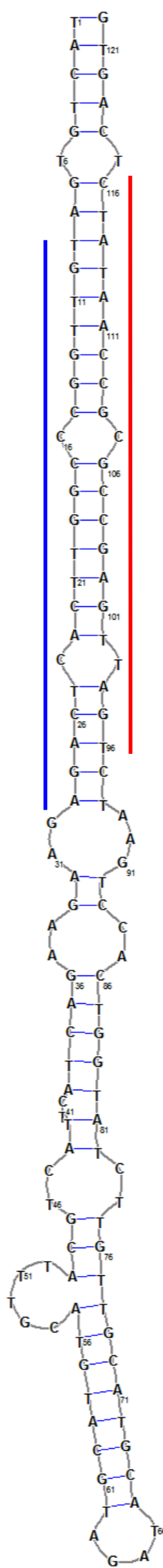


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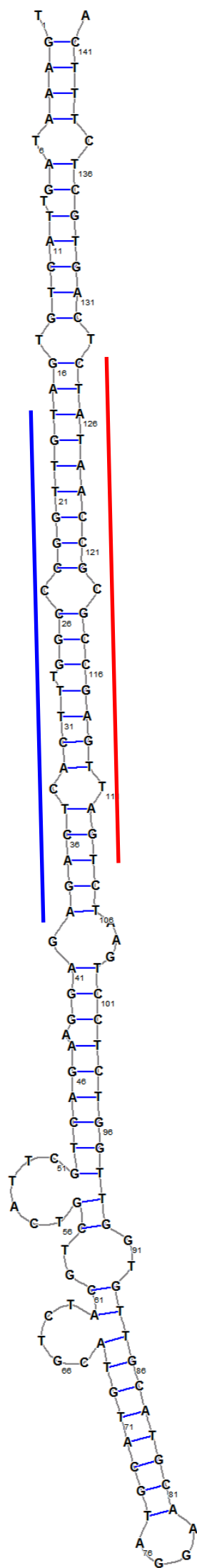


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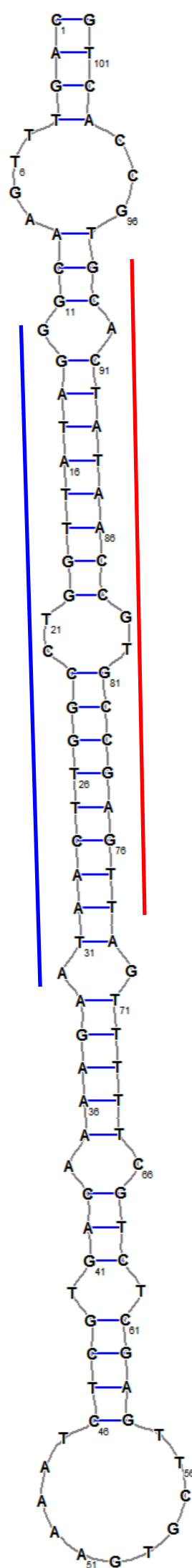
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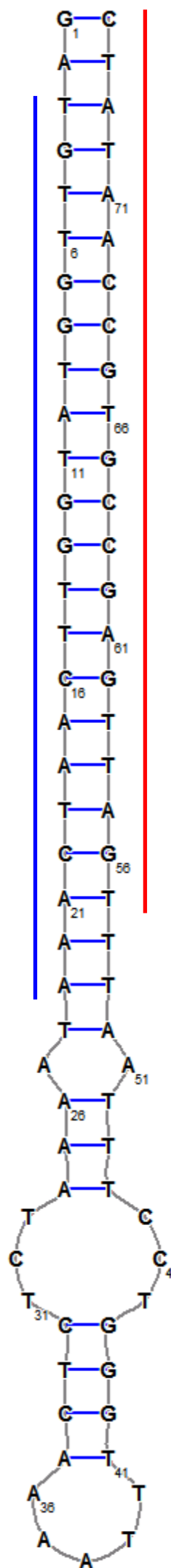
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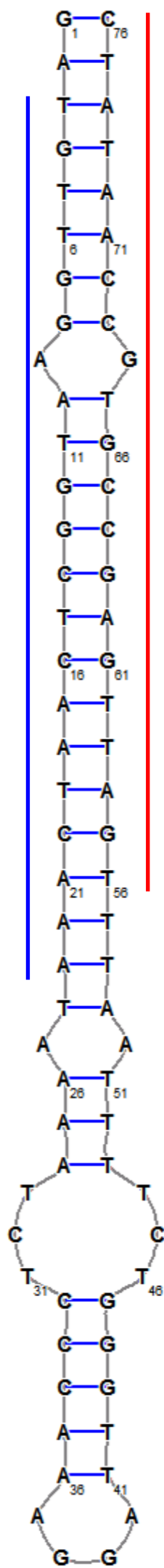
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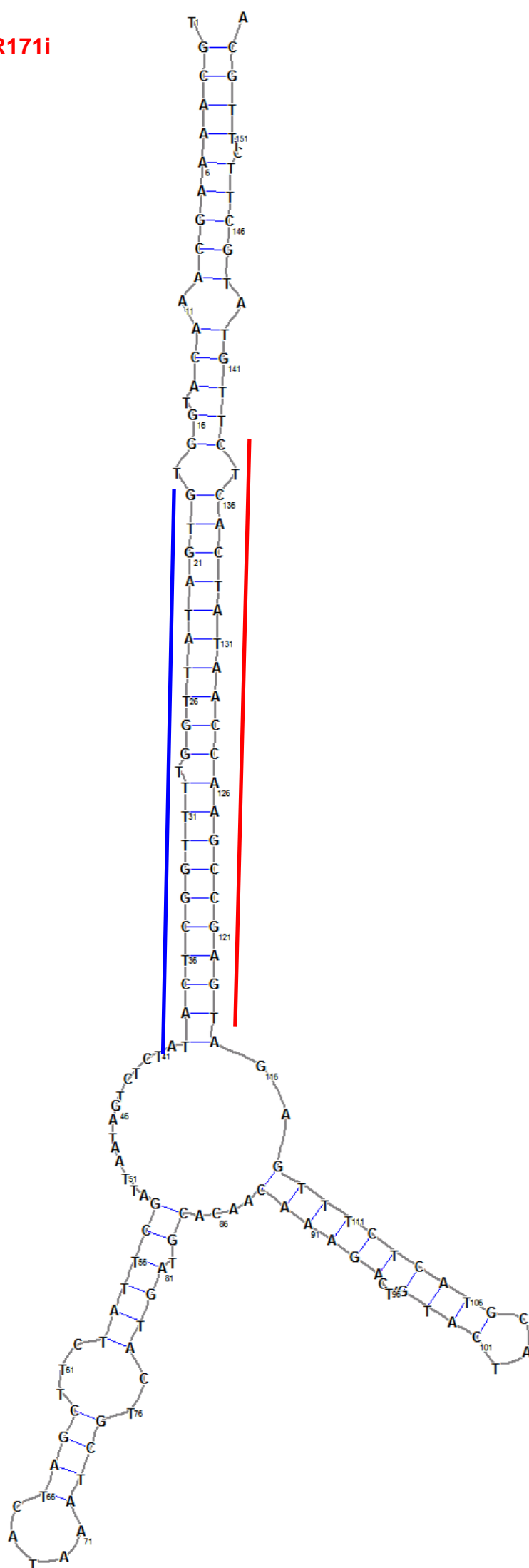
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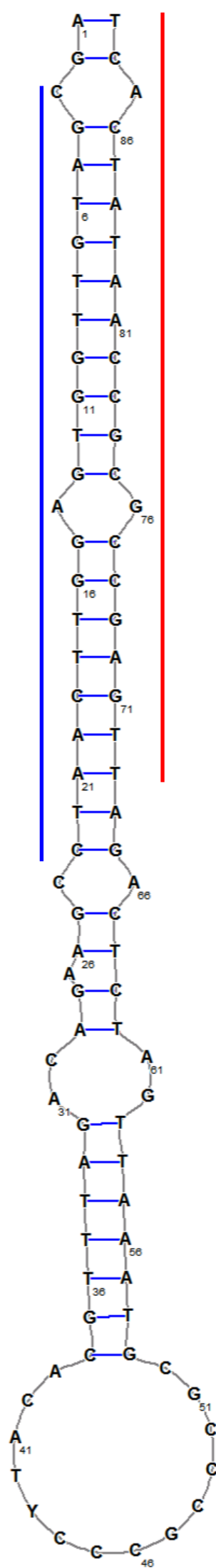
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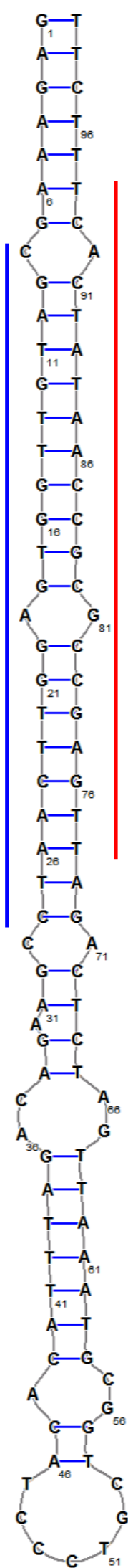
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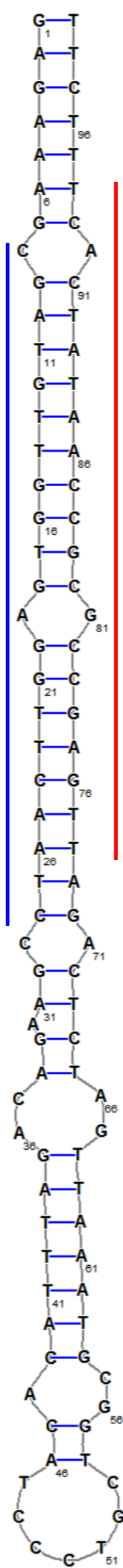
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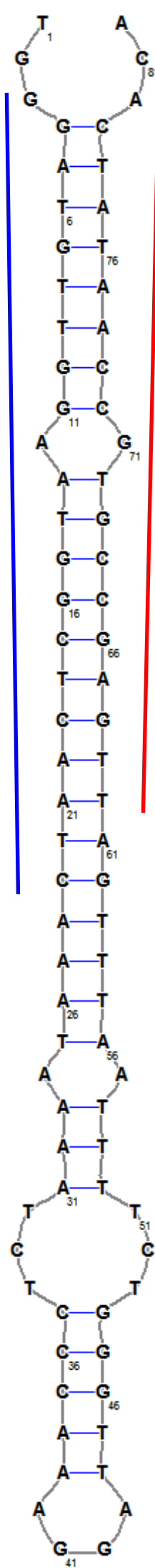
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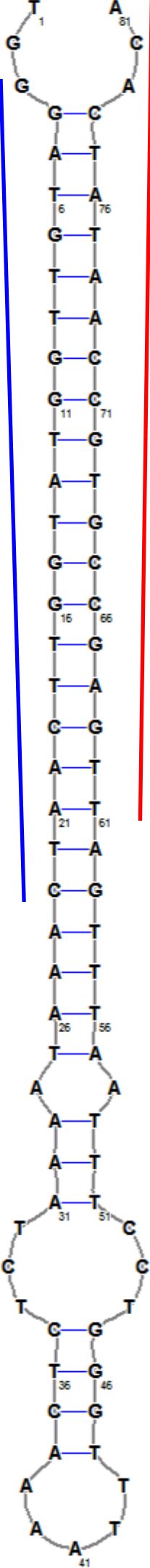
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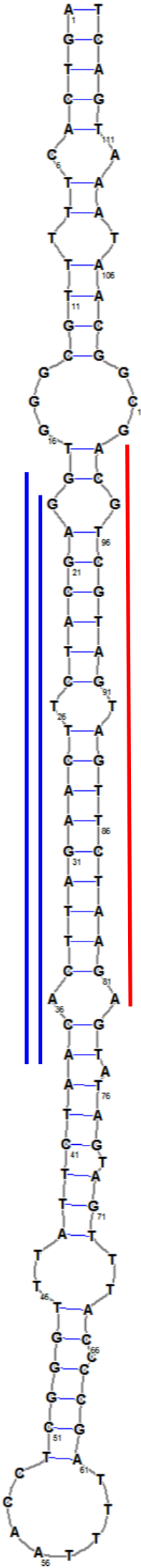


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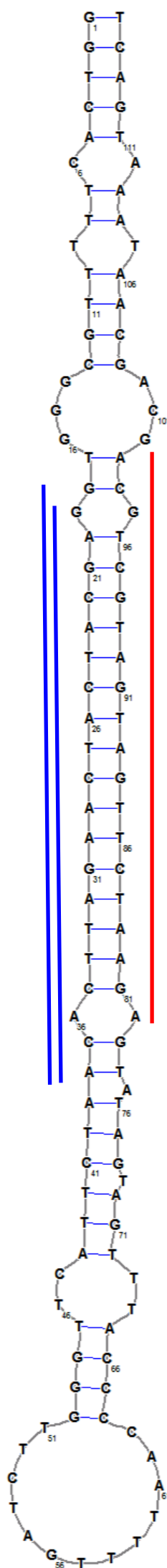


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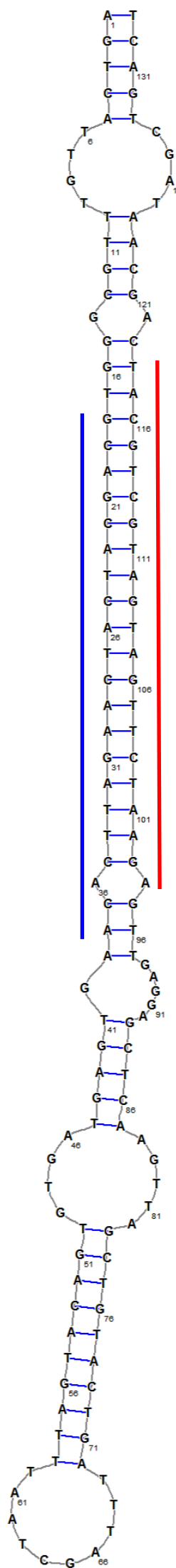
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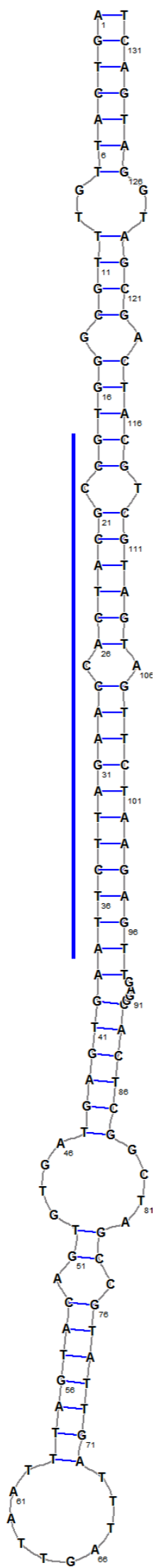
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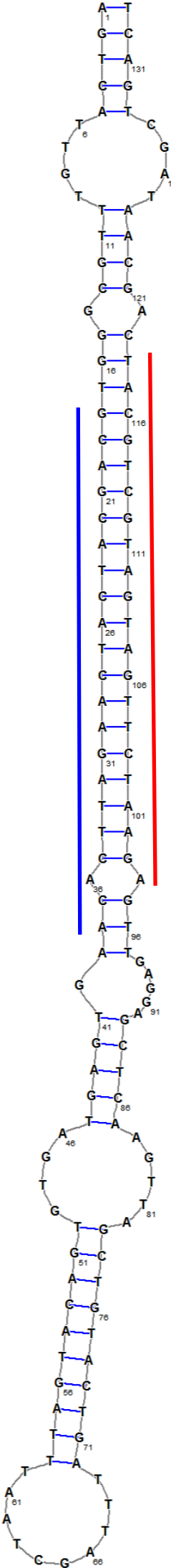
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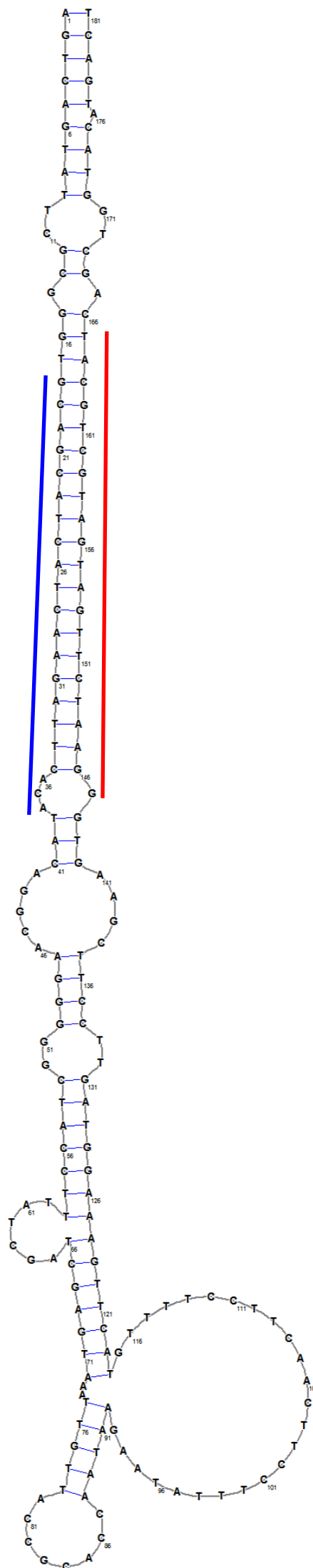
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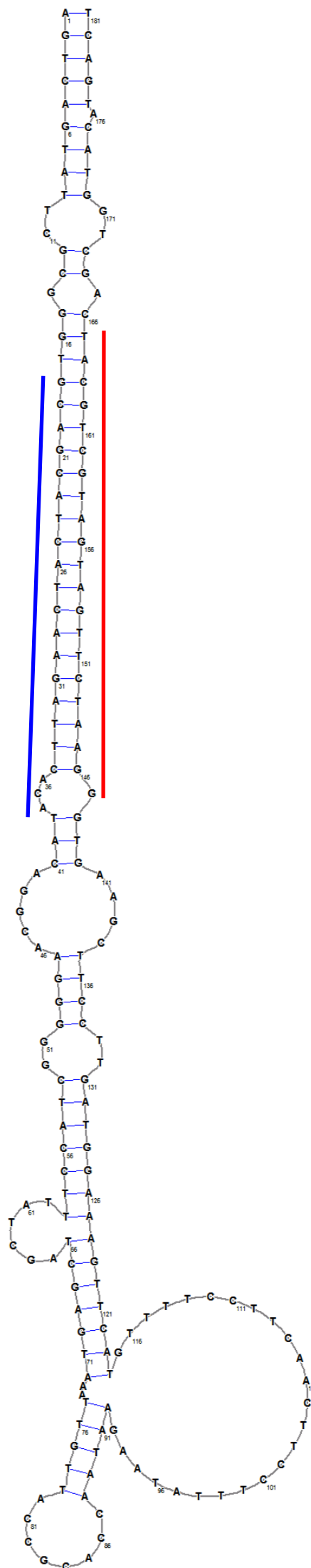
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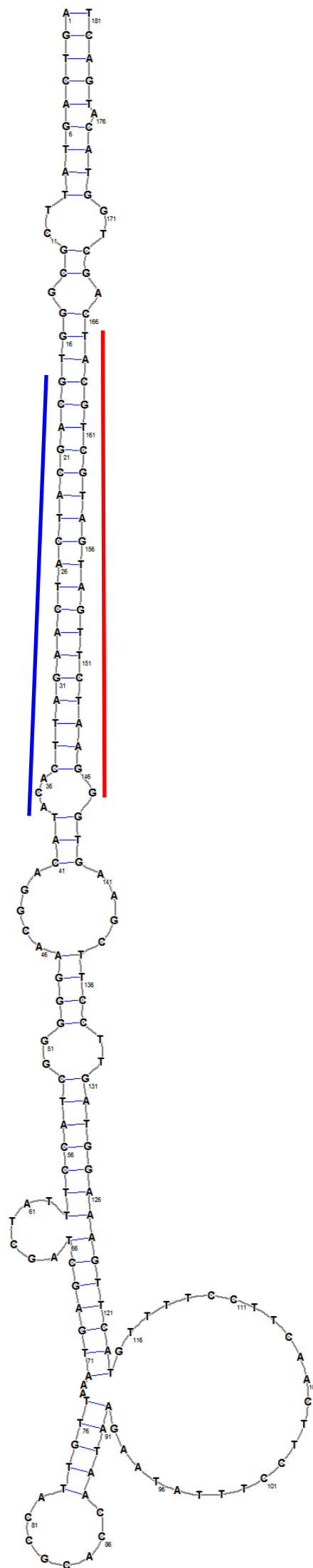
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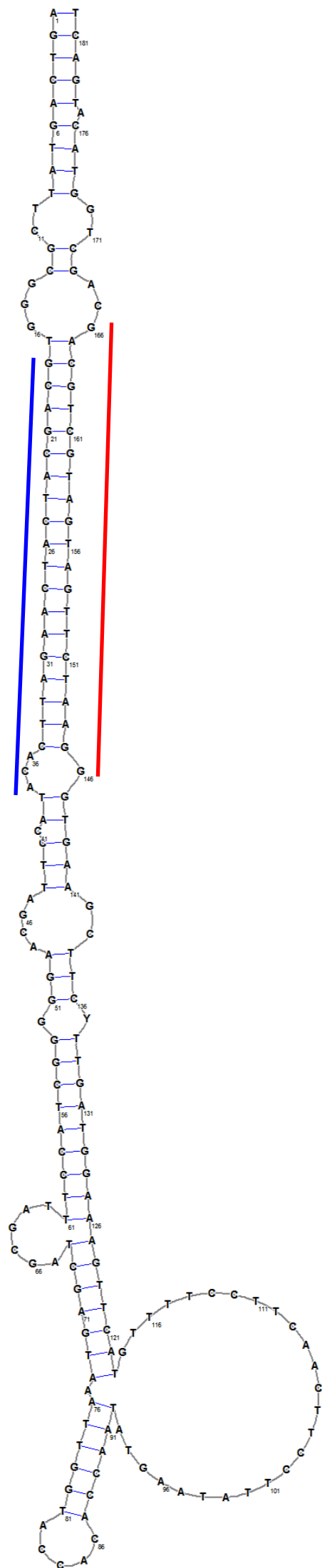
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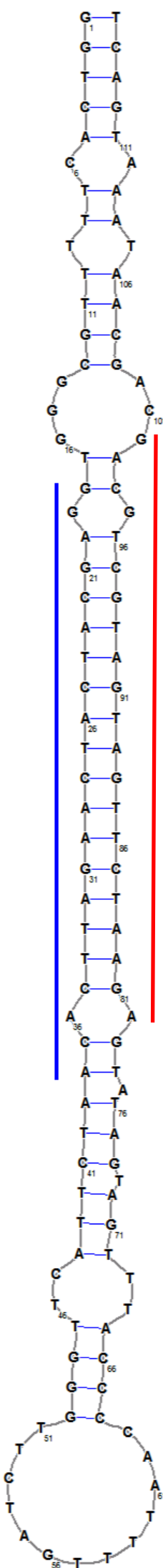
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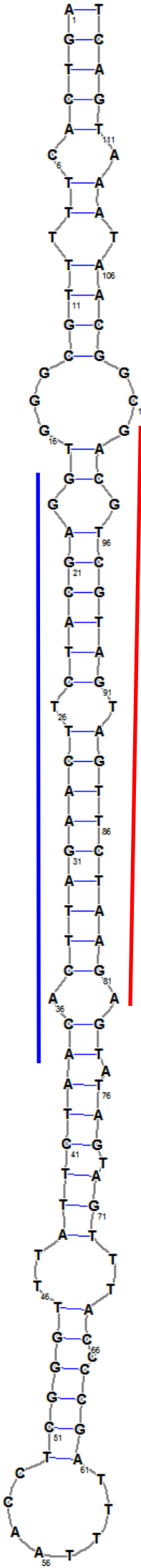
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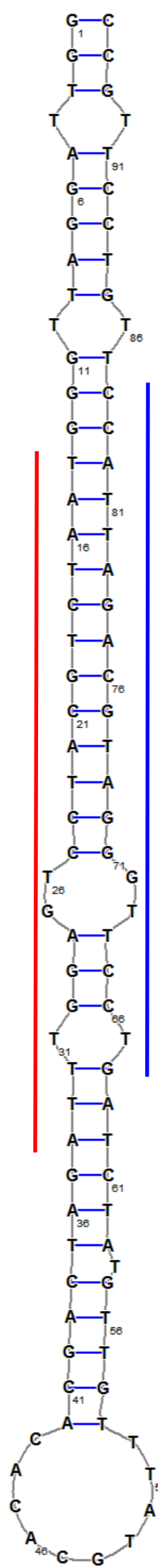
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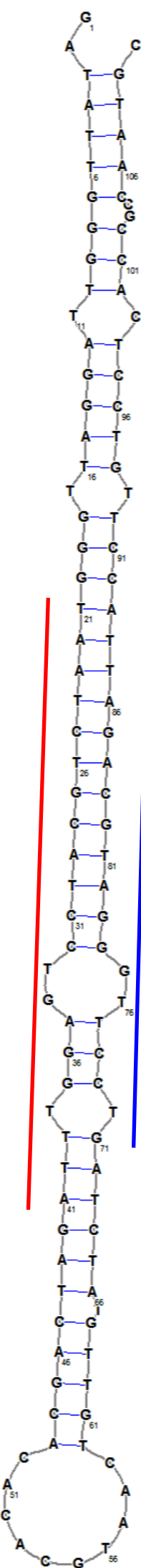
mdm-MIR172o



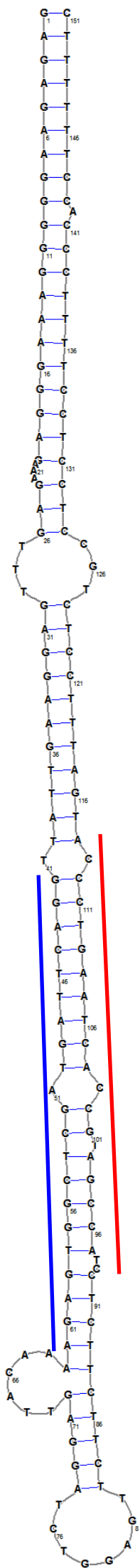
mdm-MIR2111a



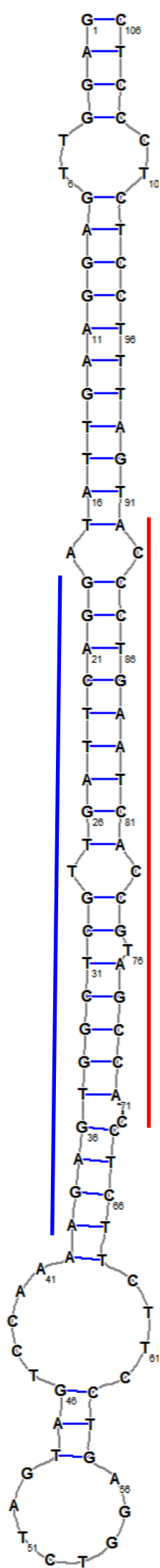
mdm-MIR2111b



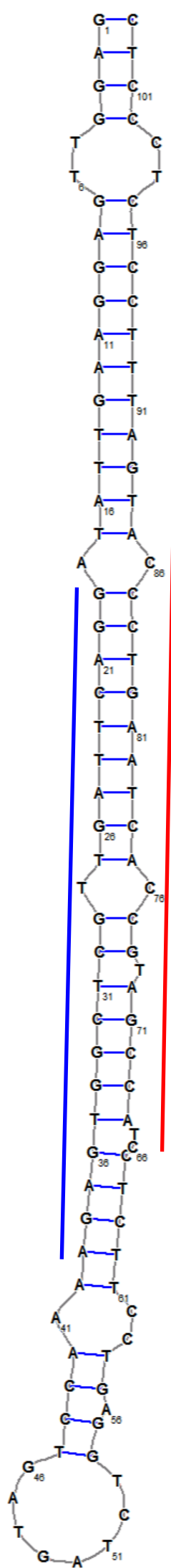
mdm-MIR2118a



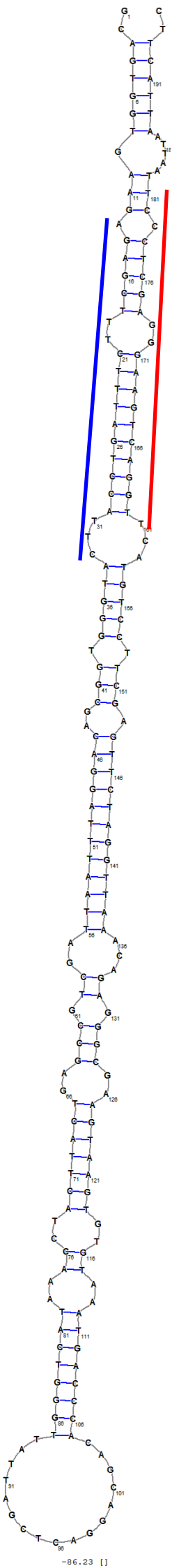
mdm-MIR2118b



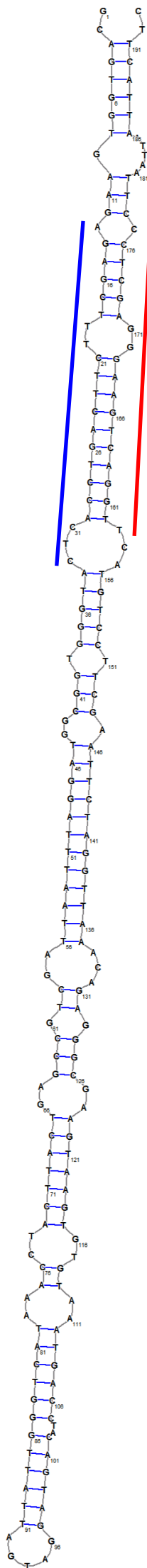
mdm-MIR2118c



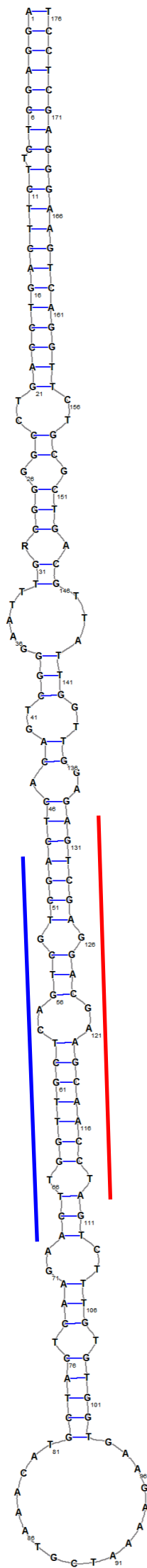
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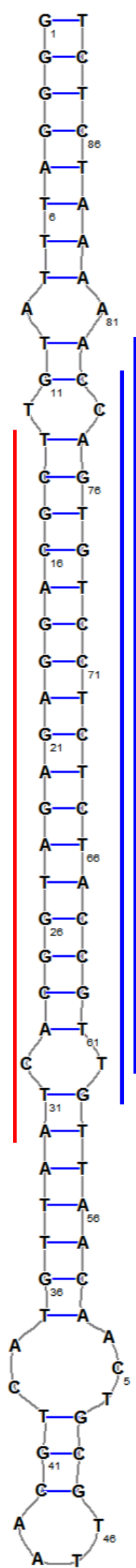
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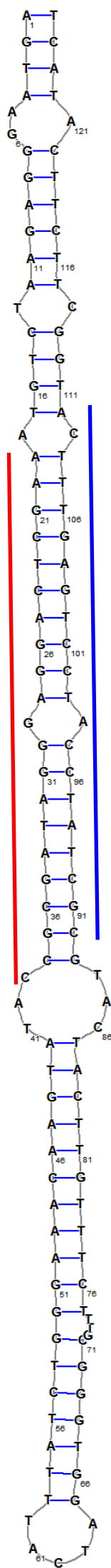
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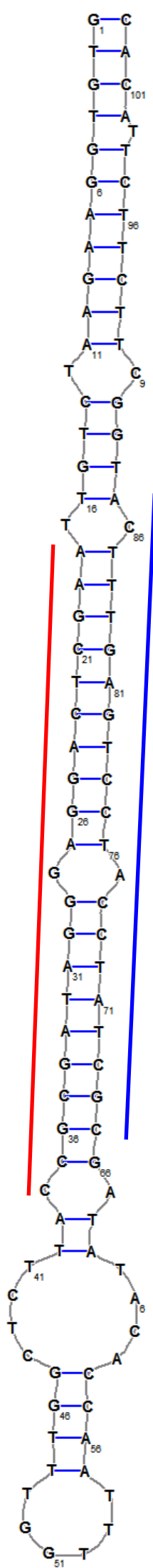
mdm-MIR3627c



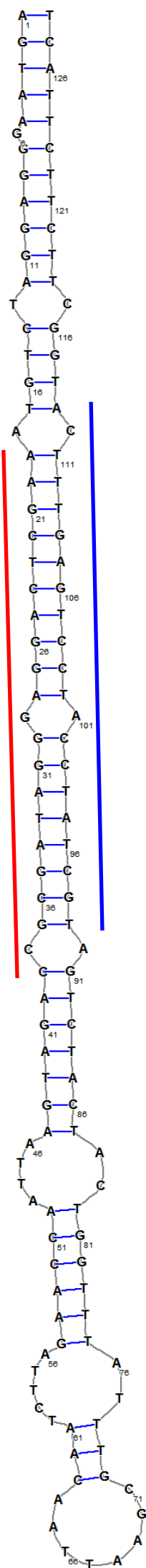
mdm-MIR390a



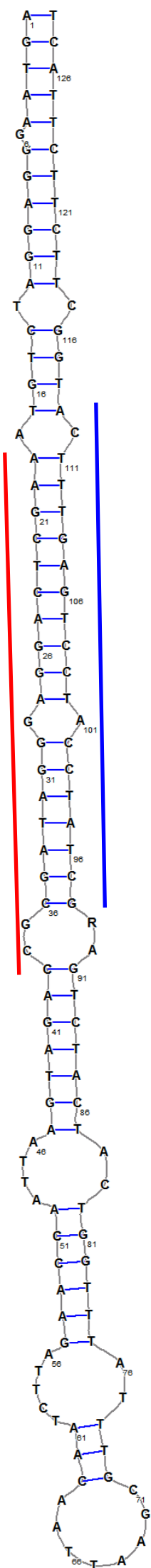
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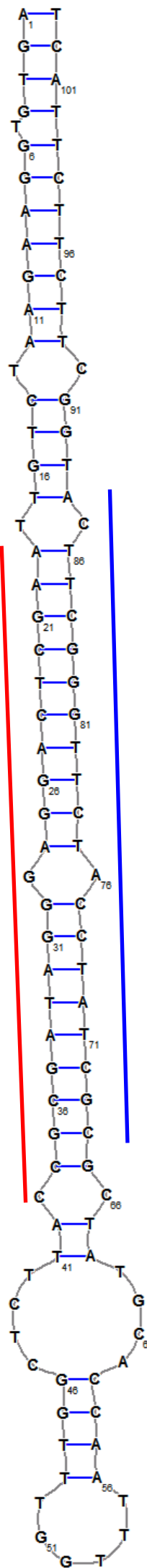
mdm-MIR390c



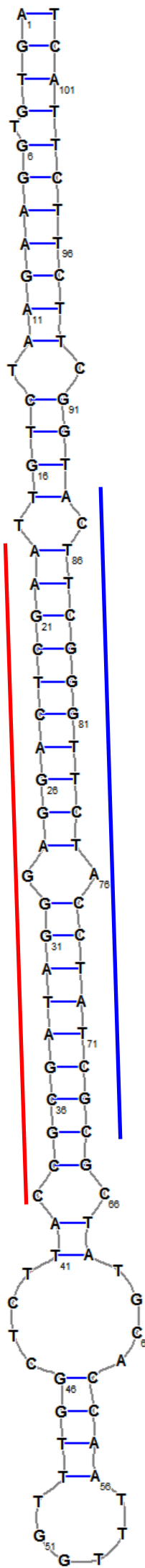
mdm-MIR390d



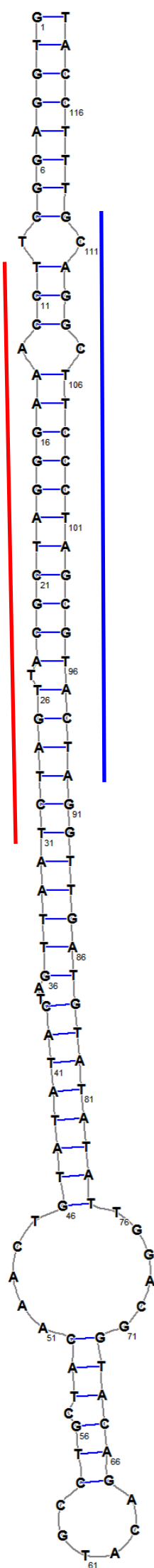
mdm-MIR390e



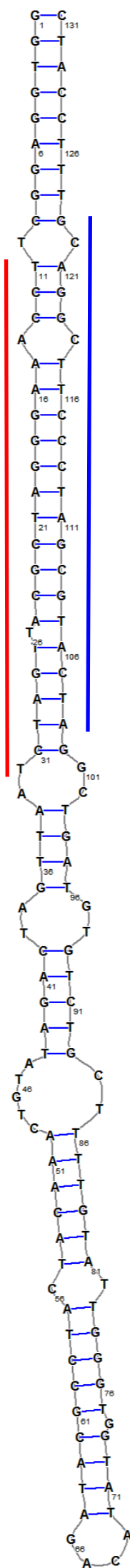
mdm-MIR390f



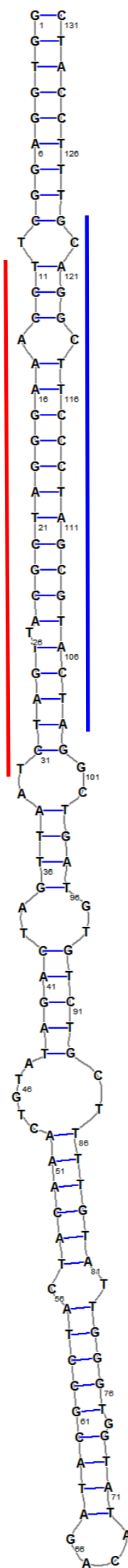
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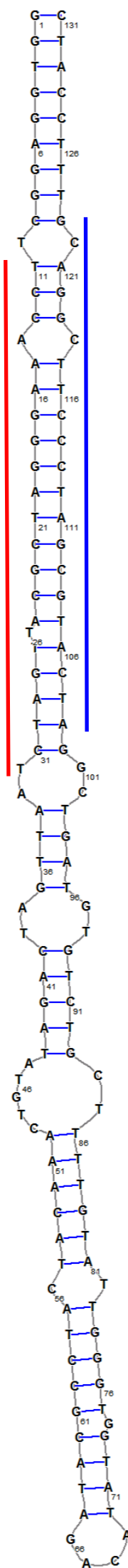
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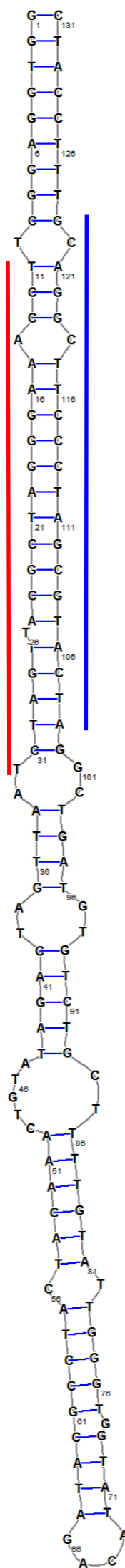
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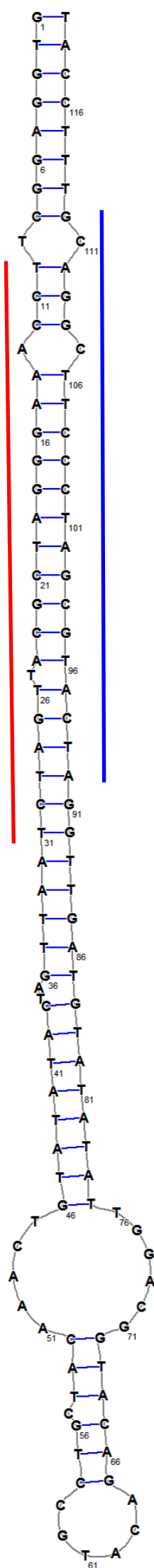
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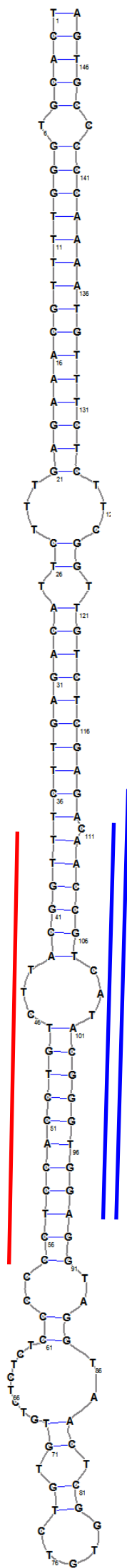
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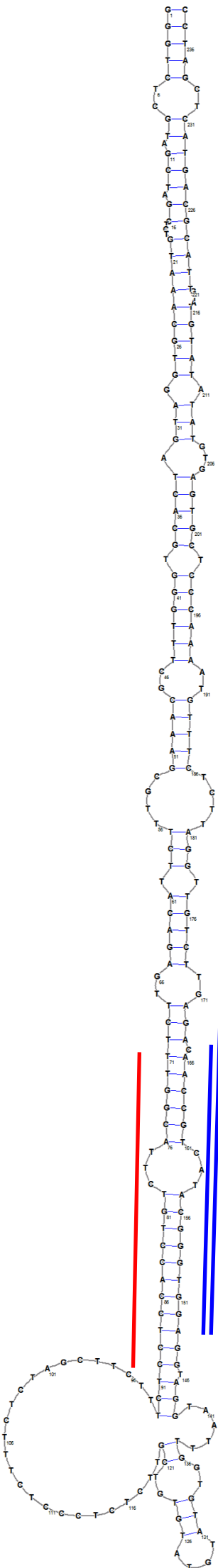
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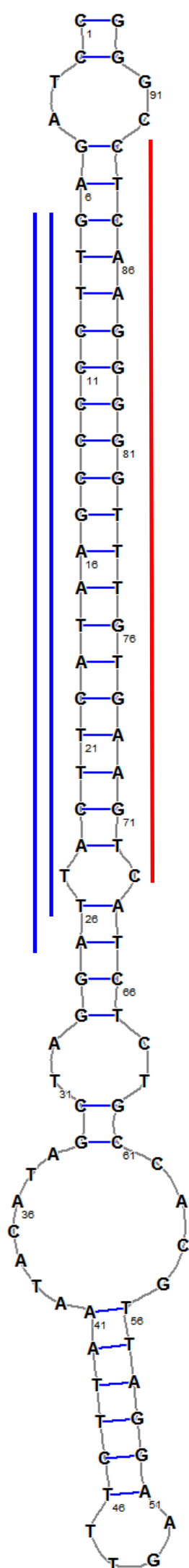
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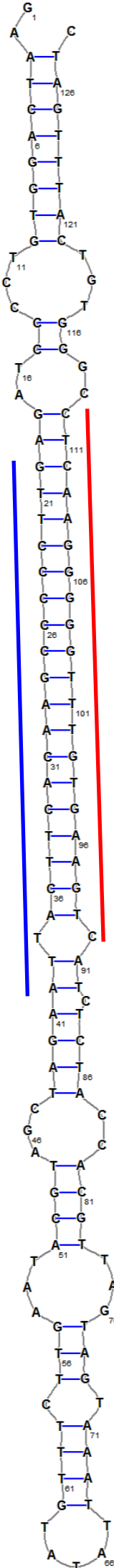
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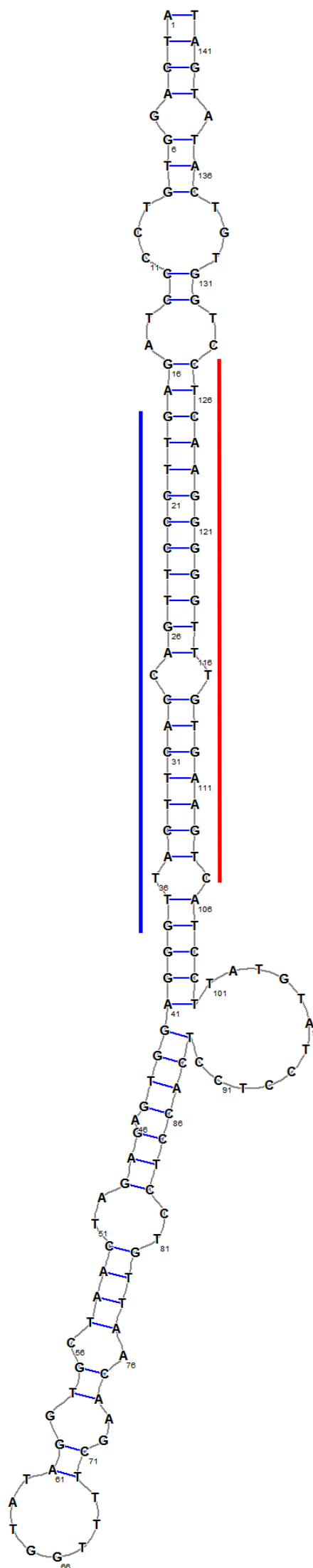
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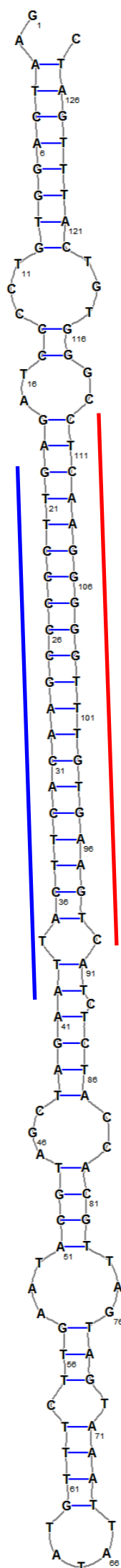
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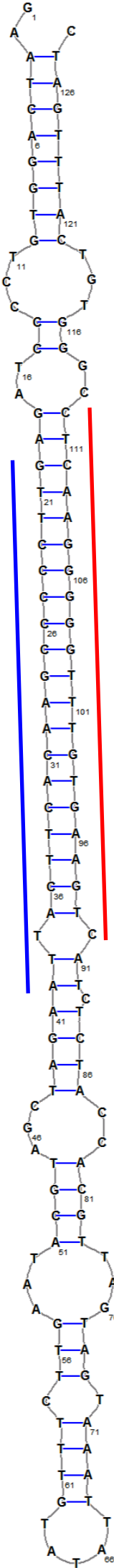
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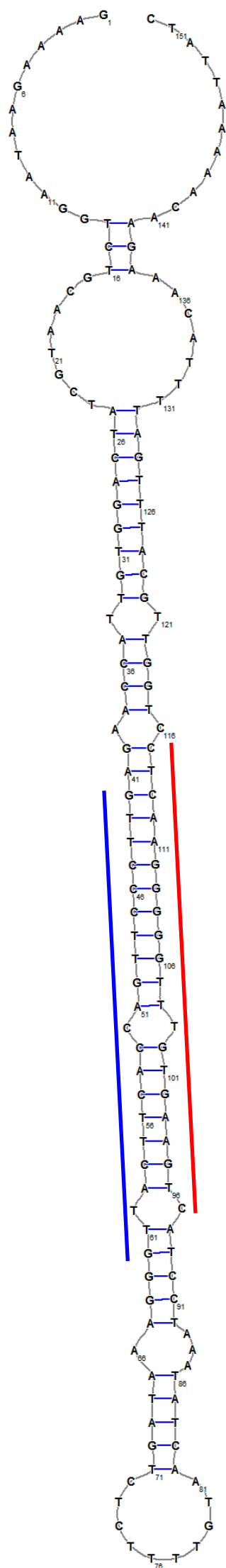
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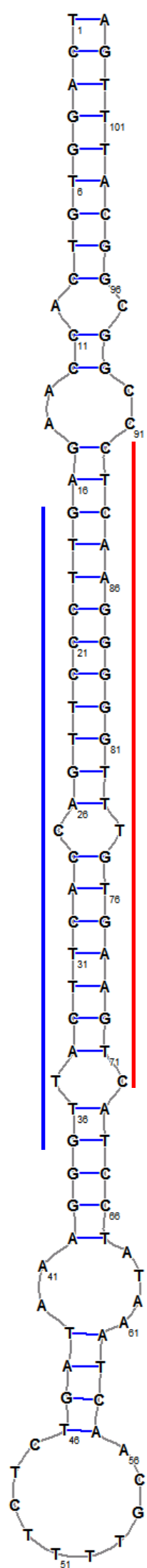
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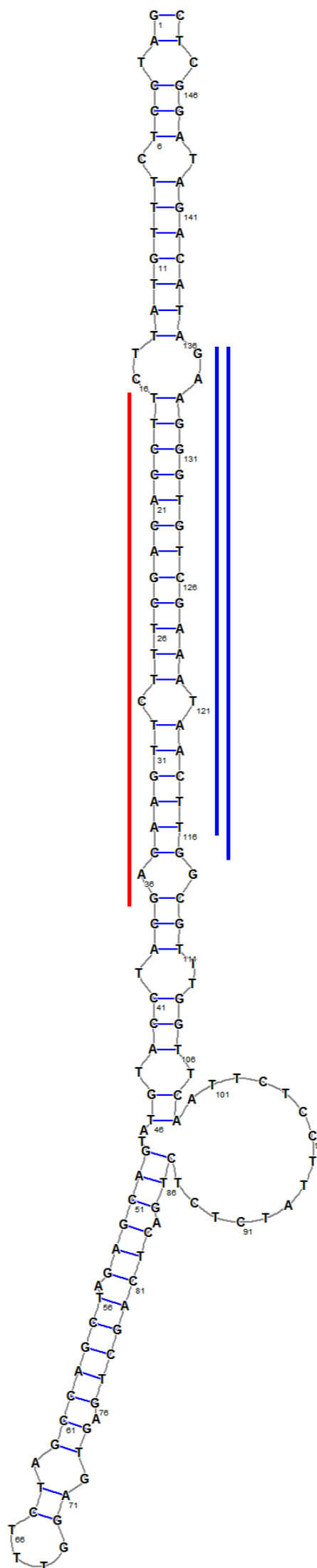
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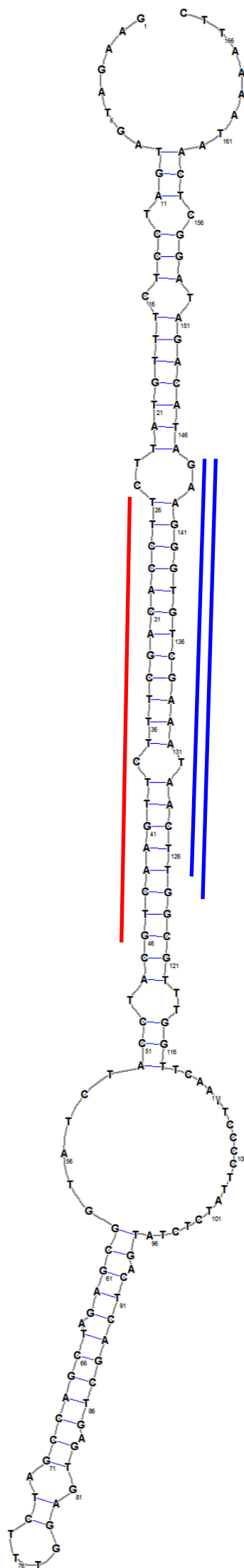
mdm-MIR395i



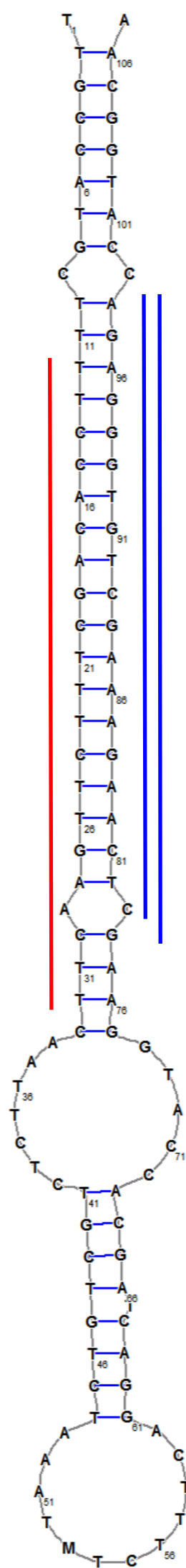
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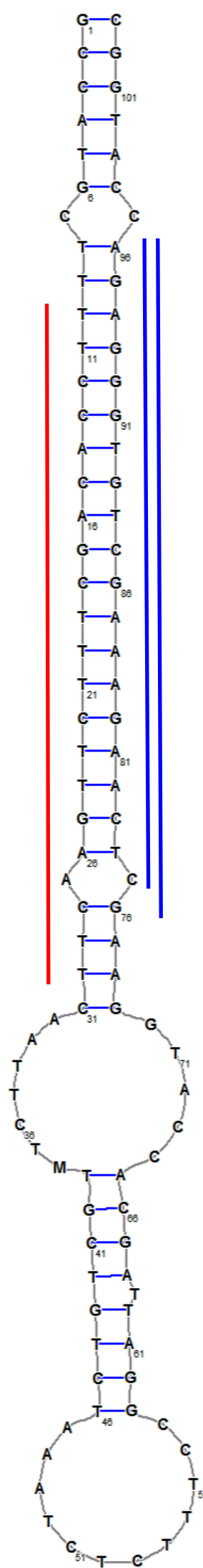
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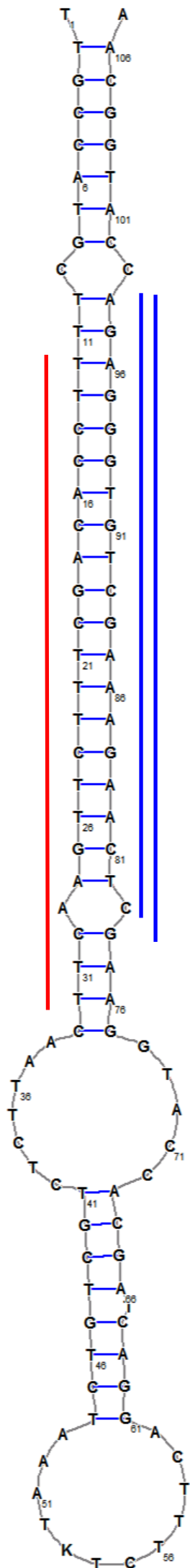
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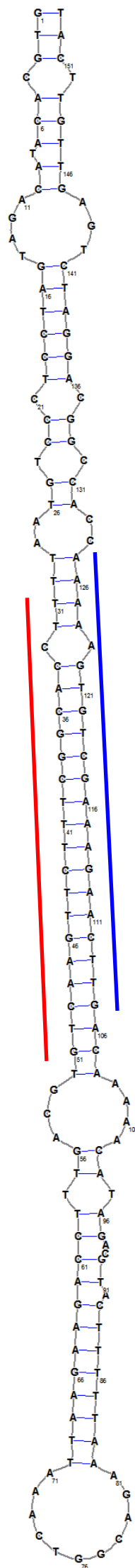
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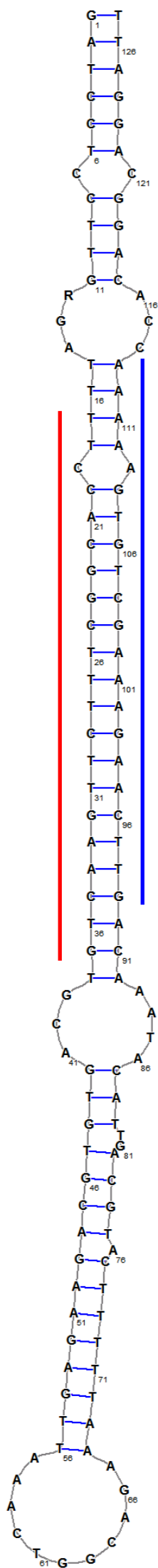
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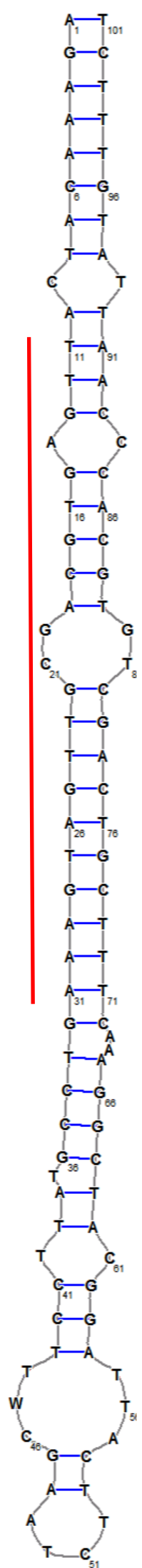
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mdm-MIR396g

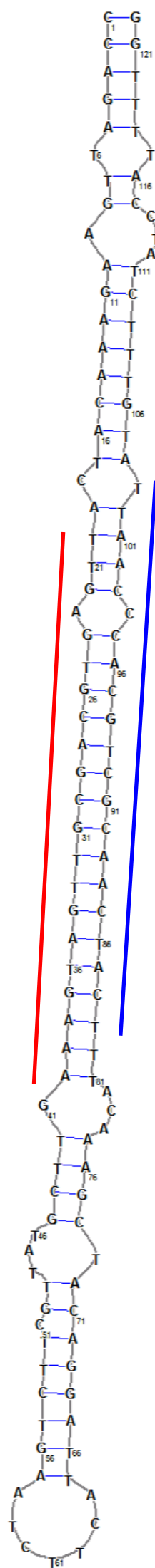


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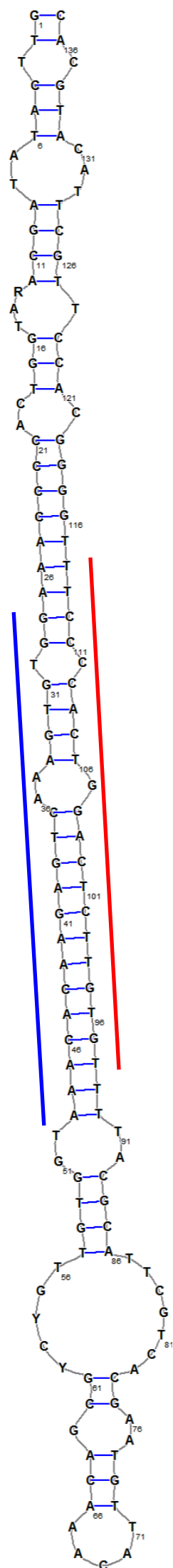


-41.70 [kcal/mol]

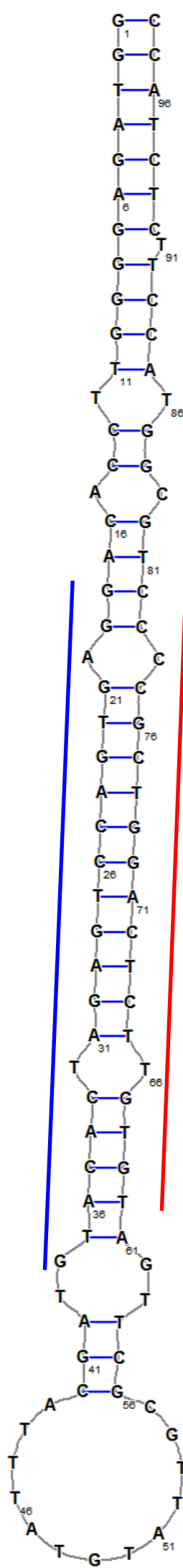
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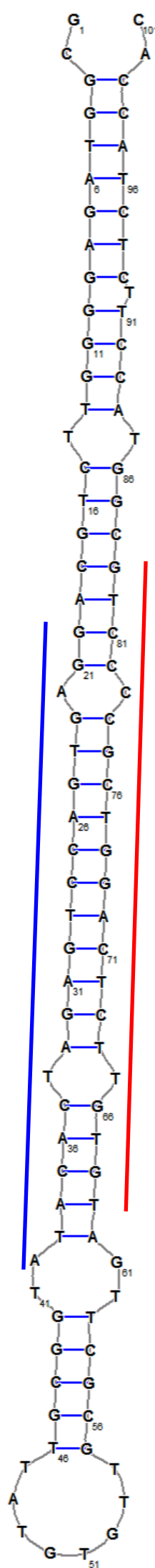
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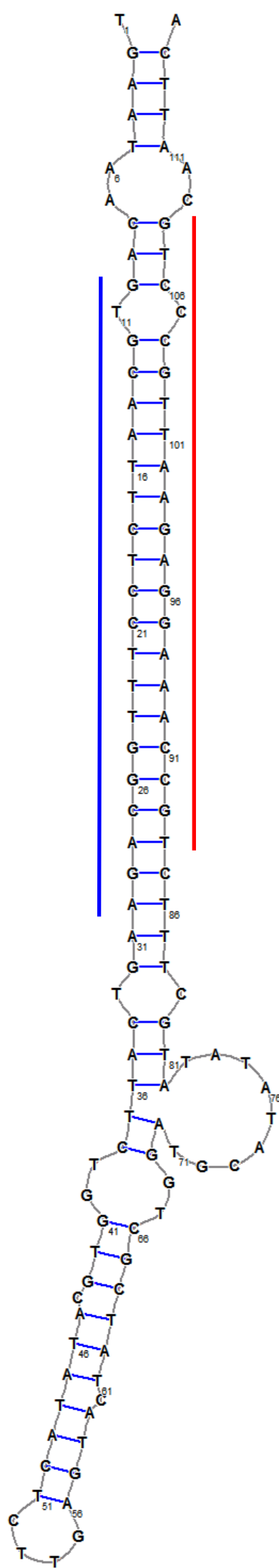
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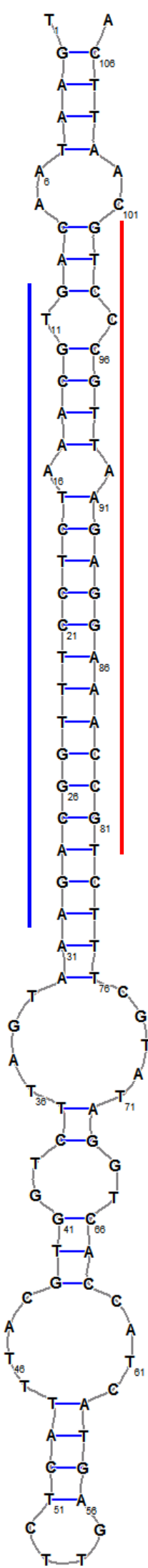
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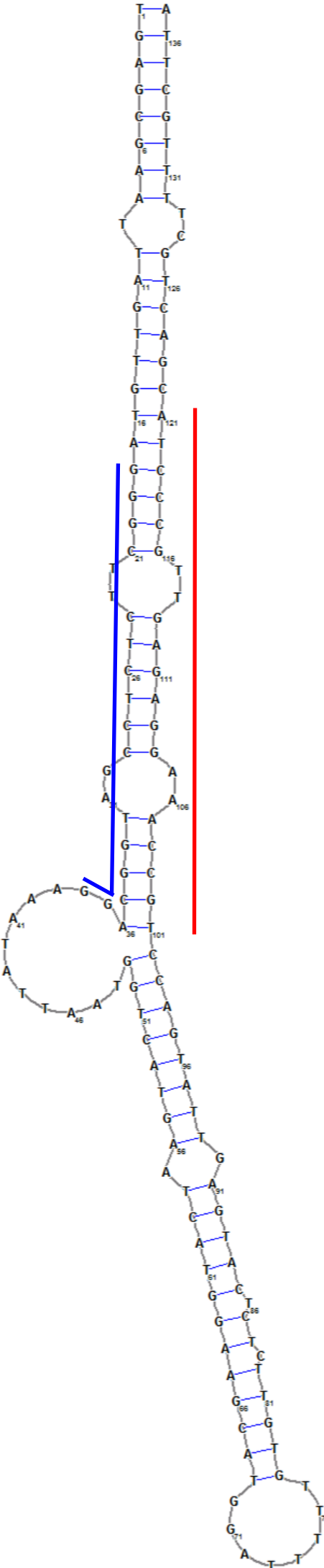
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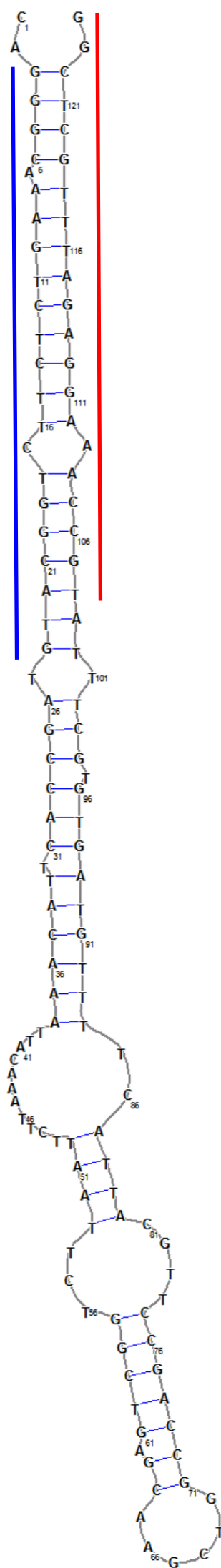
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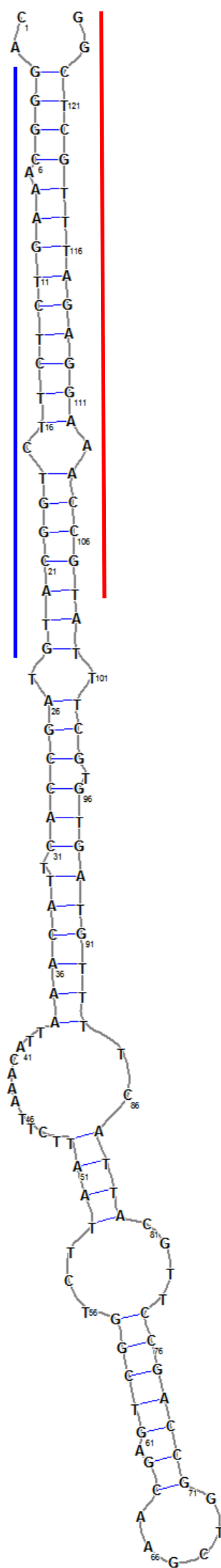
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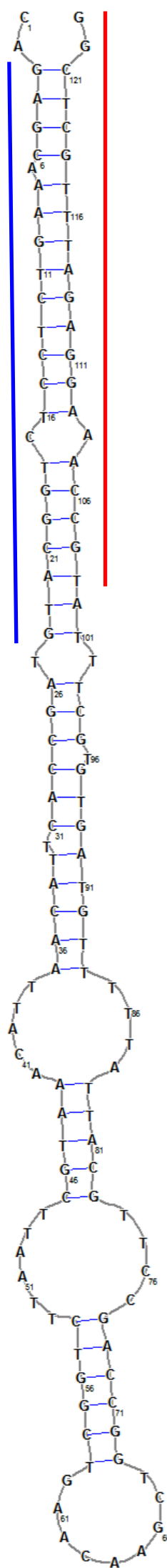
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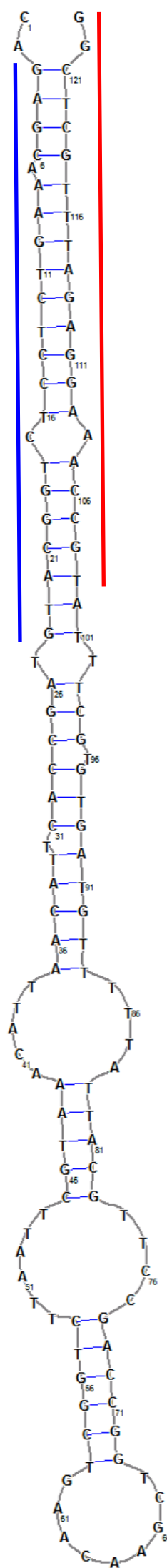
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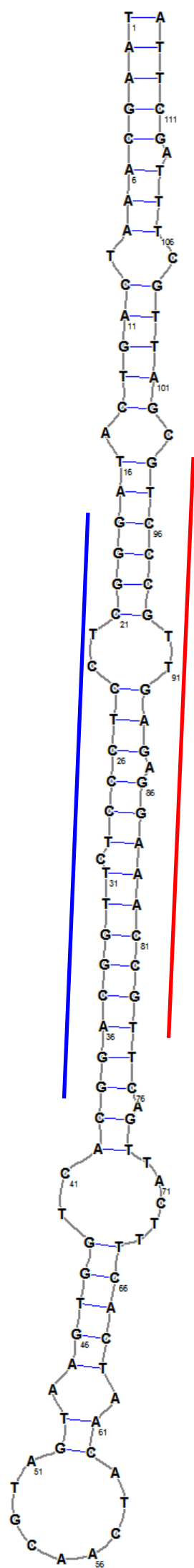
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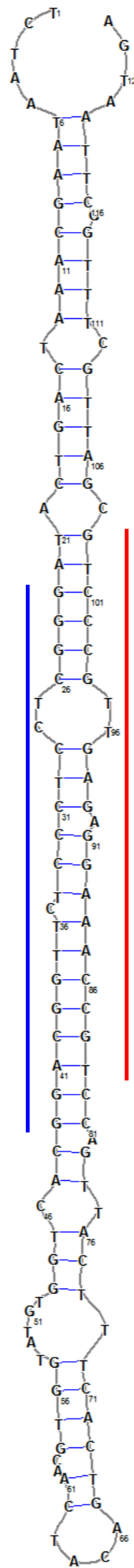
mdm-MIR399h



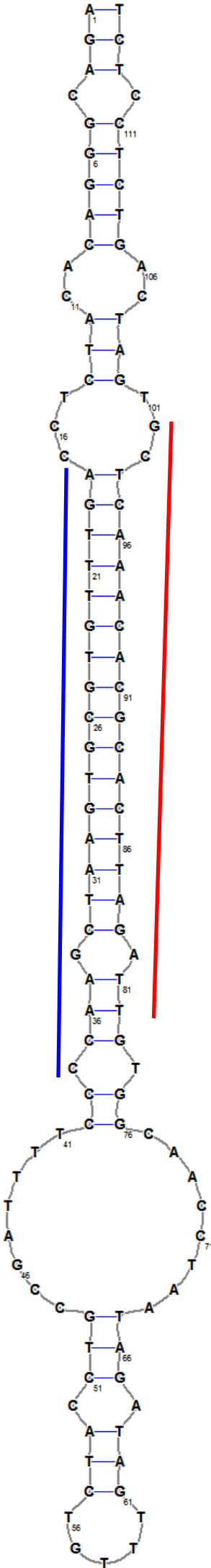
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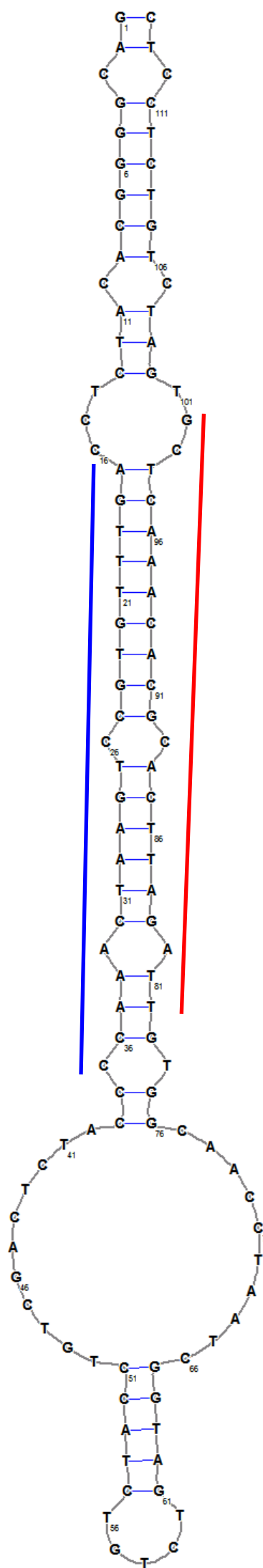
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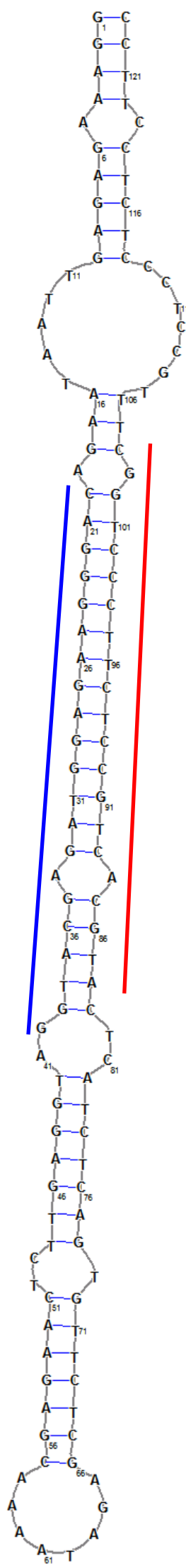
mdm-MIR403a



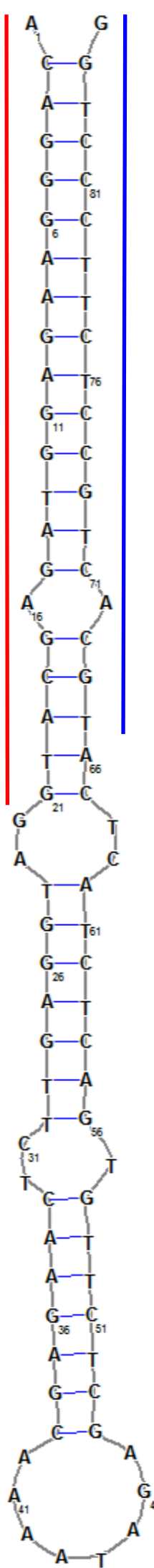
mdm-MIR403b



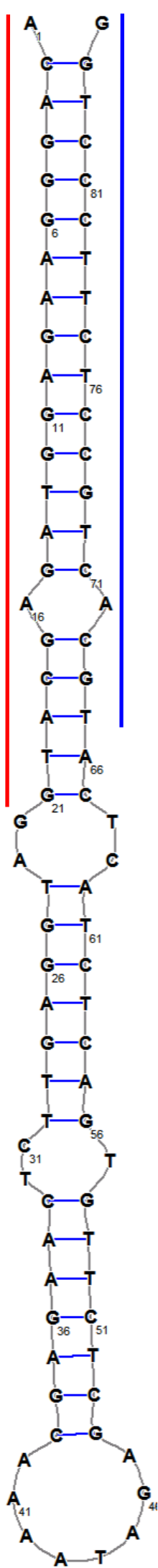
mdm-MIR408a



mdm-MIR408b

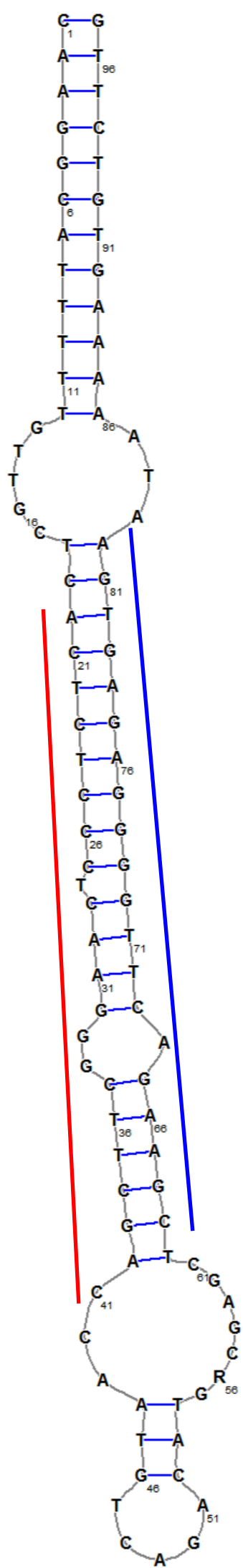


mdm-MIR408d

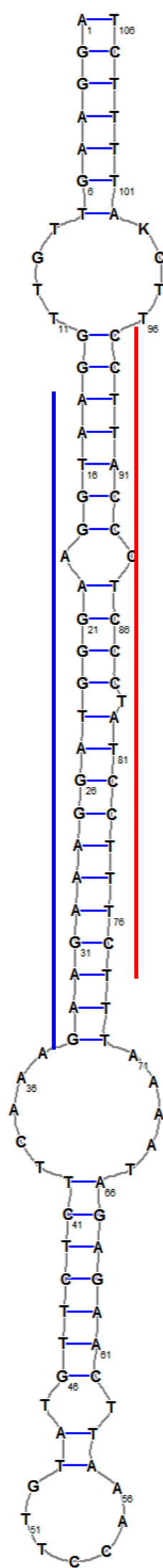


-58.50 [kcal/mol]

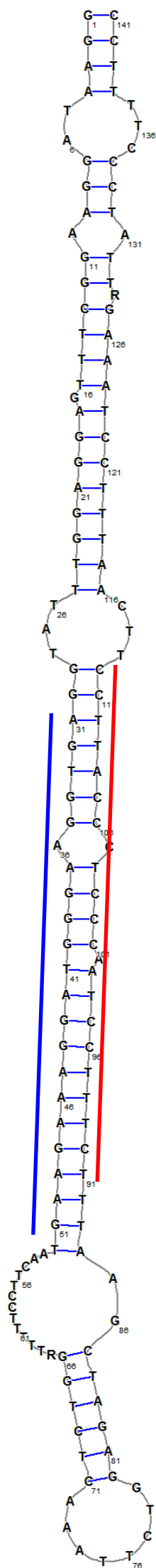
mdm-MIR447



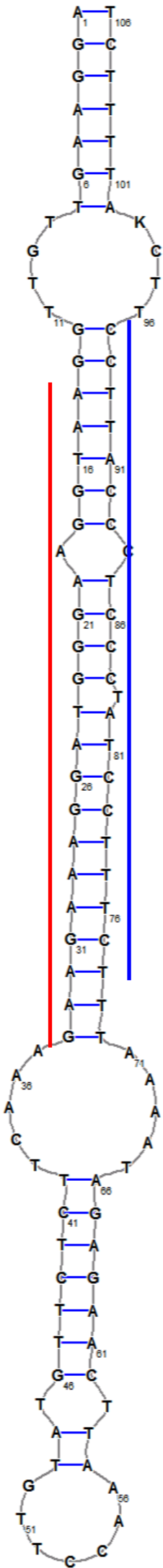
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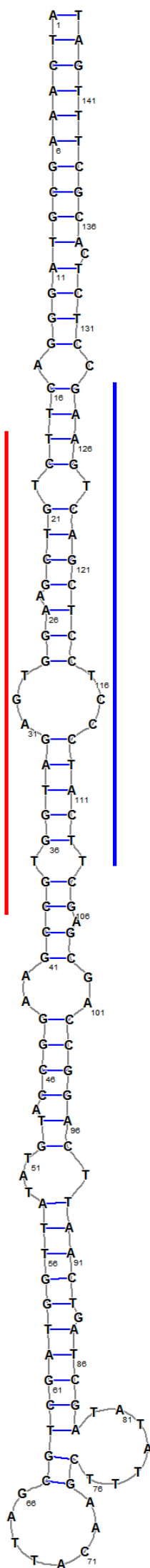
mdm-MIR482c



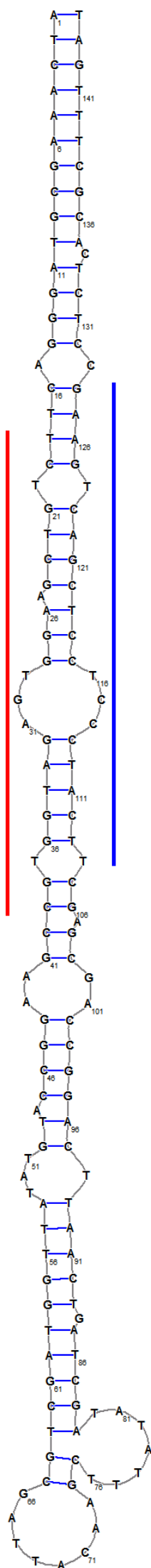
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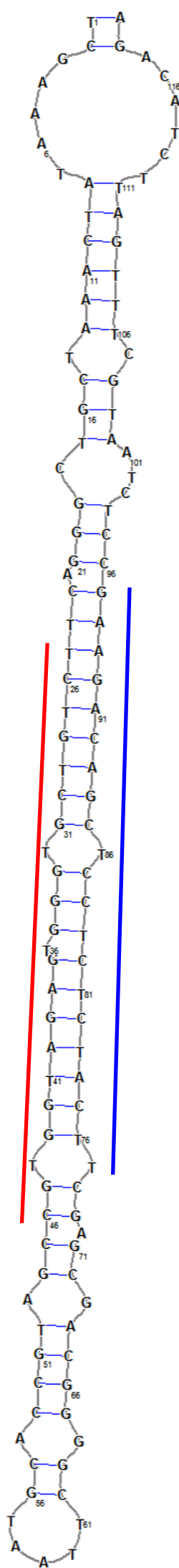
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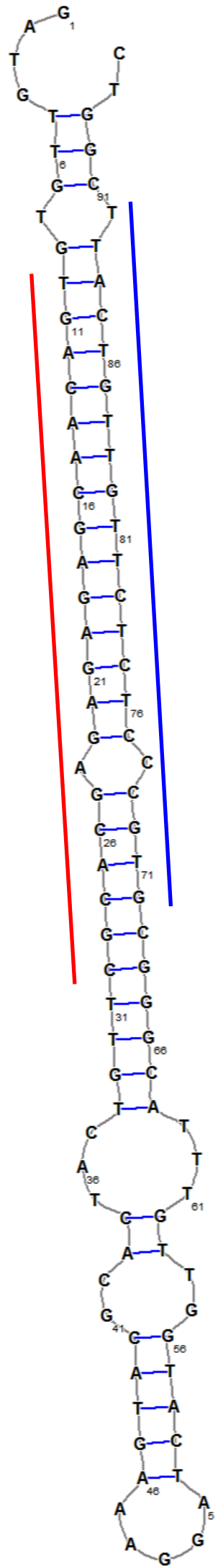
mdm-MIR5225b



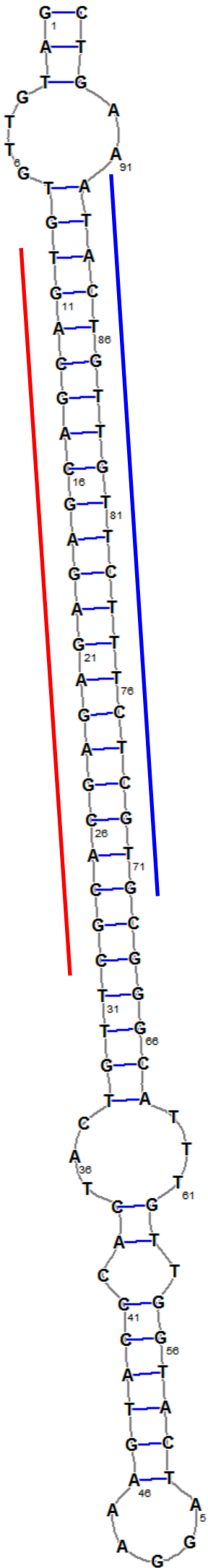
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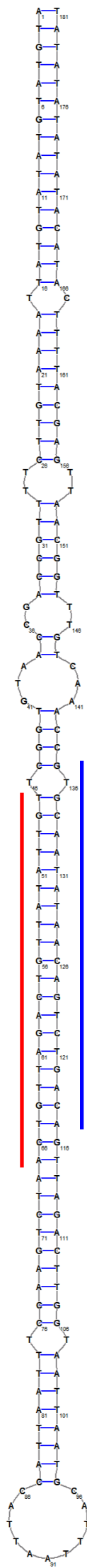
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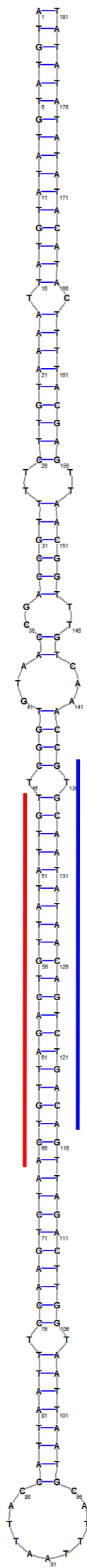
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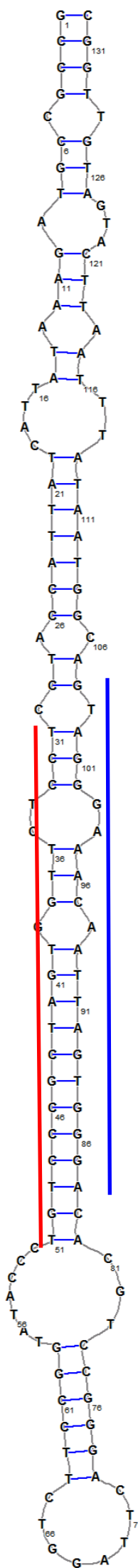
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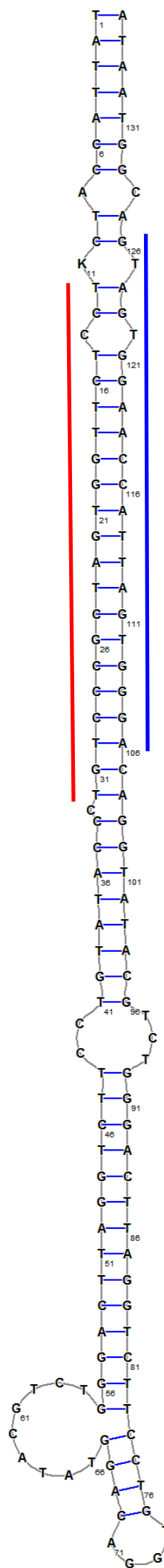
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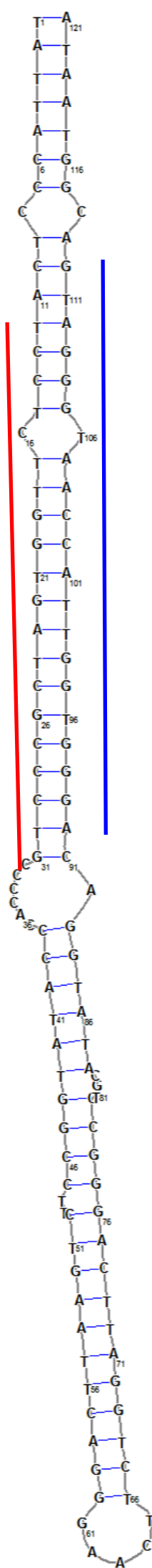
mdm-MIR7121a



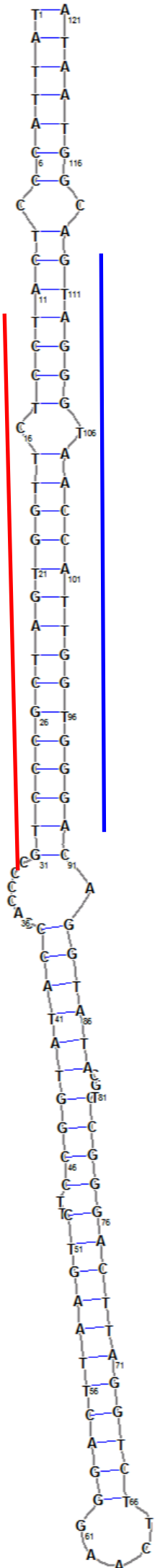
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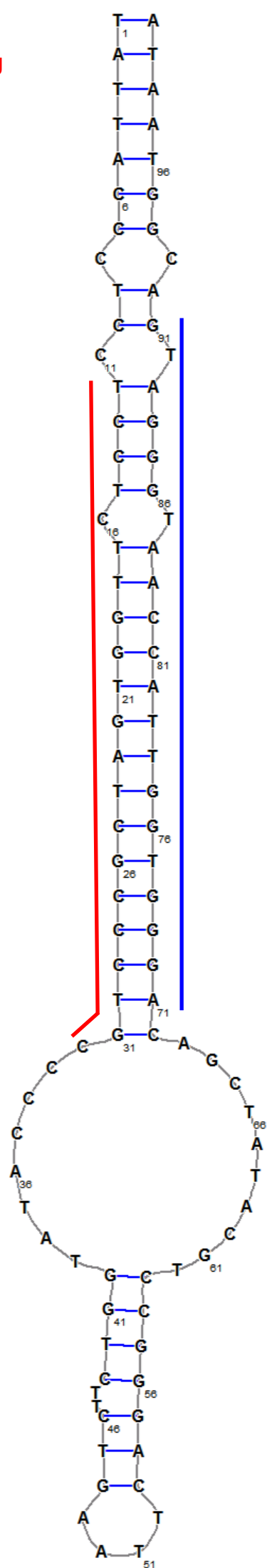
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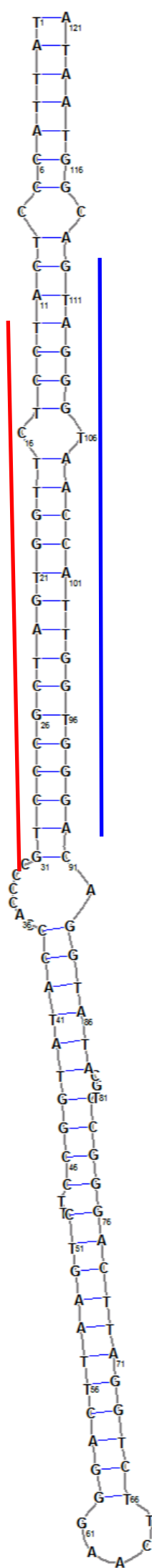
mdm-MIR7121e



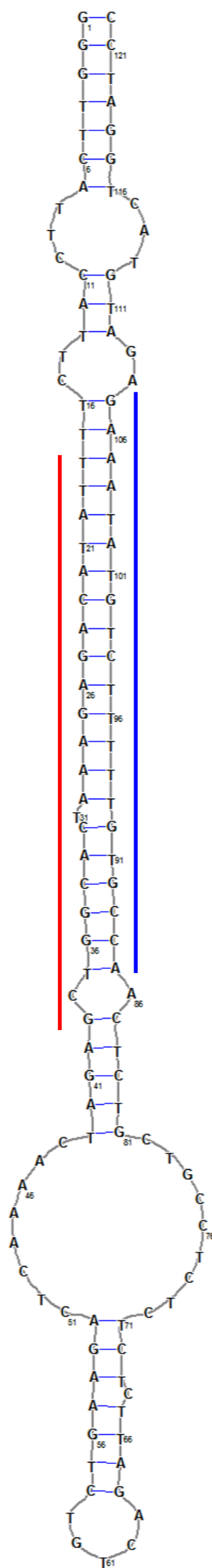
mdm-MIR7121g



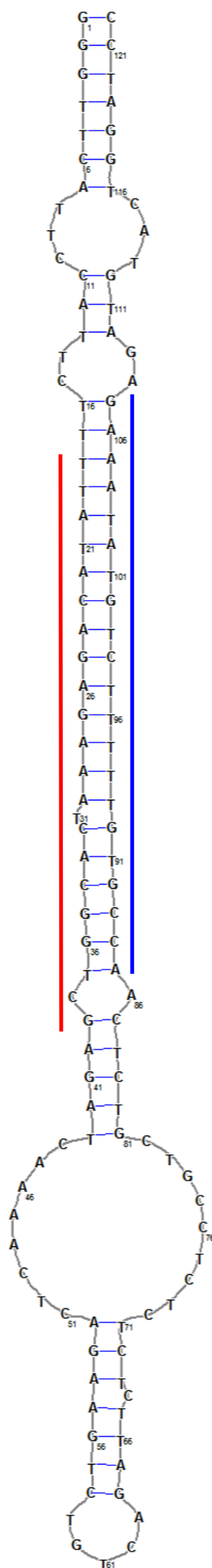
mdm-MIR7121h



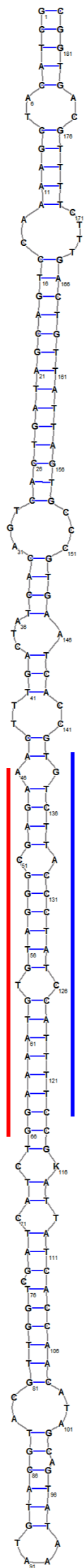
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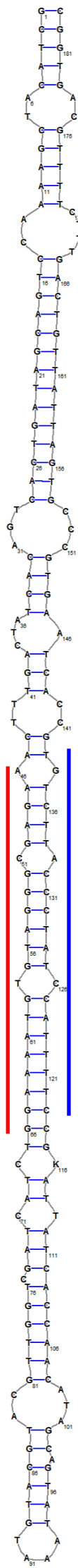
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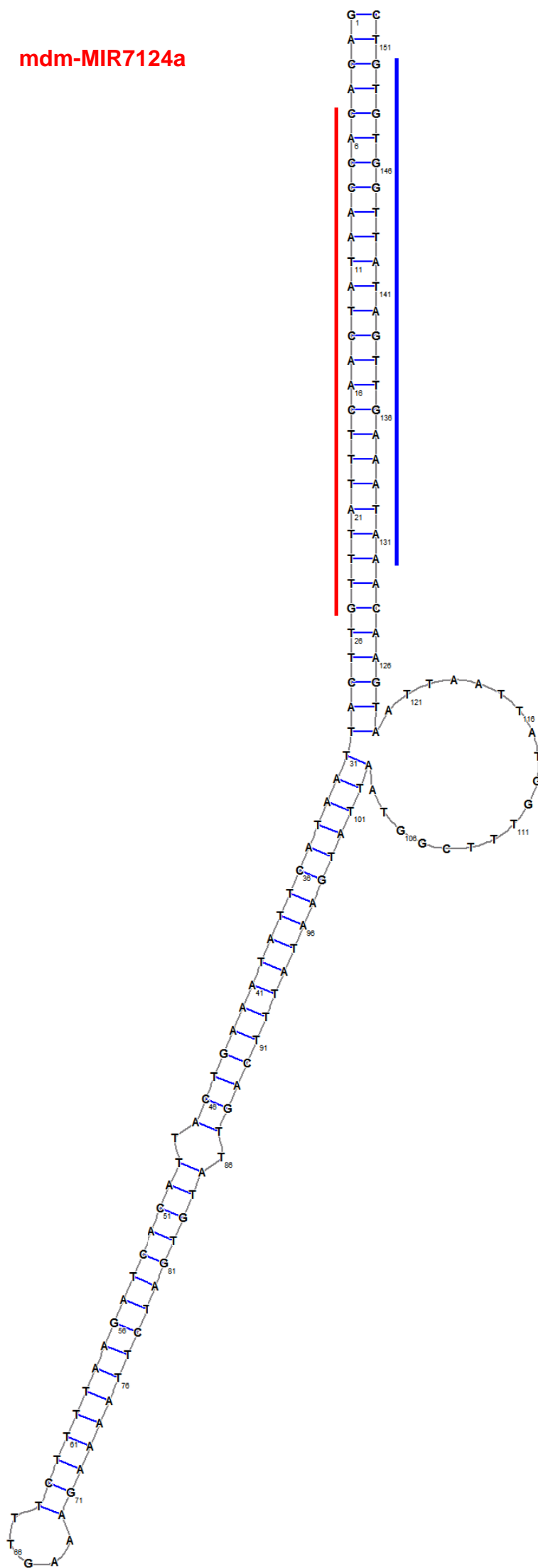
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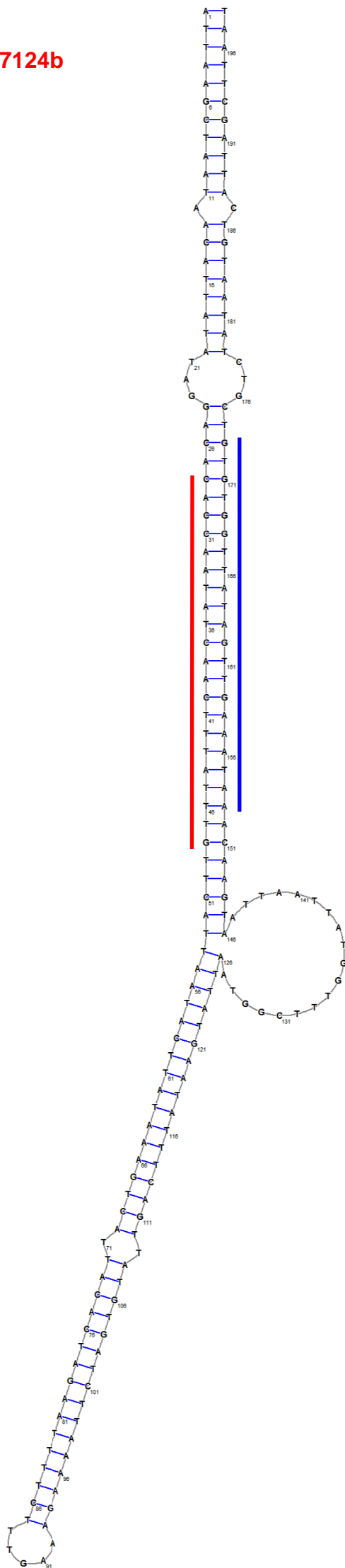
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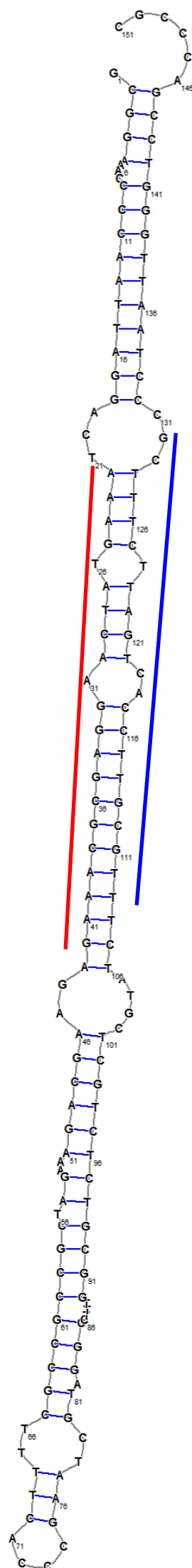
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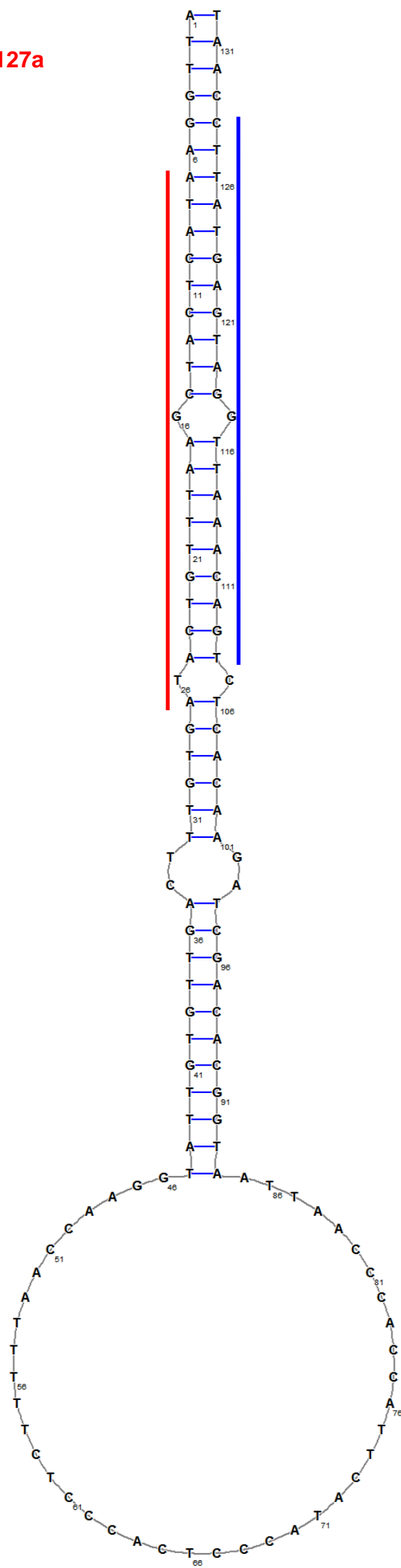
mdm-MIR7124b



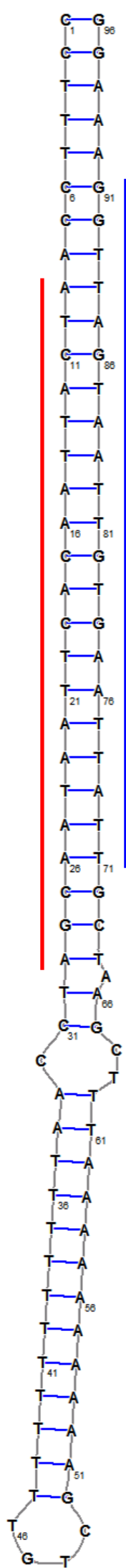
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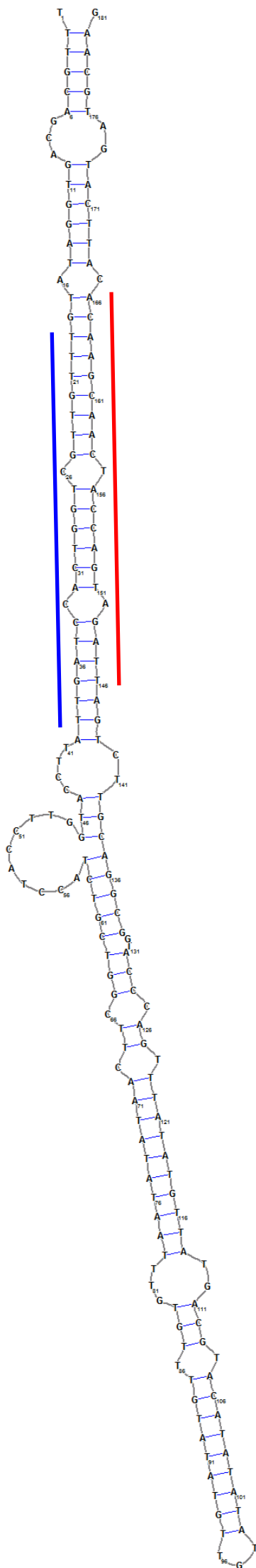
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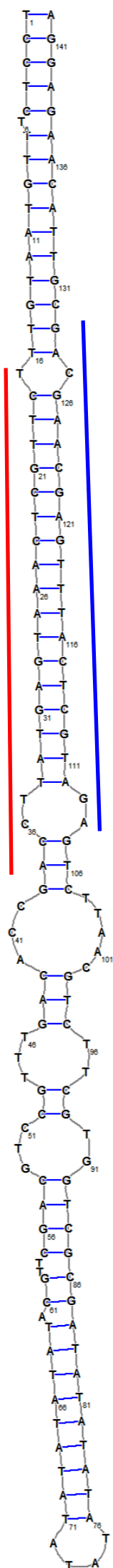
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mdm-MIR827



mdm-MIR828a



mdm-MIR858

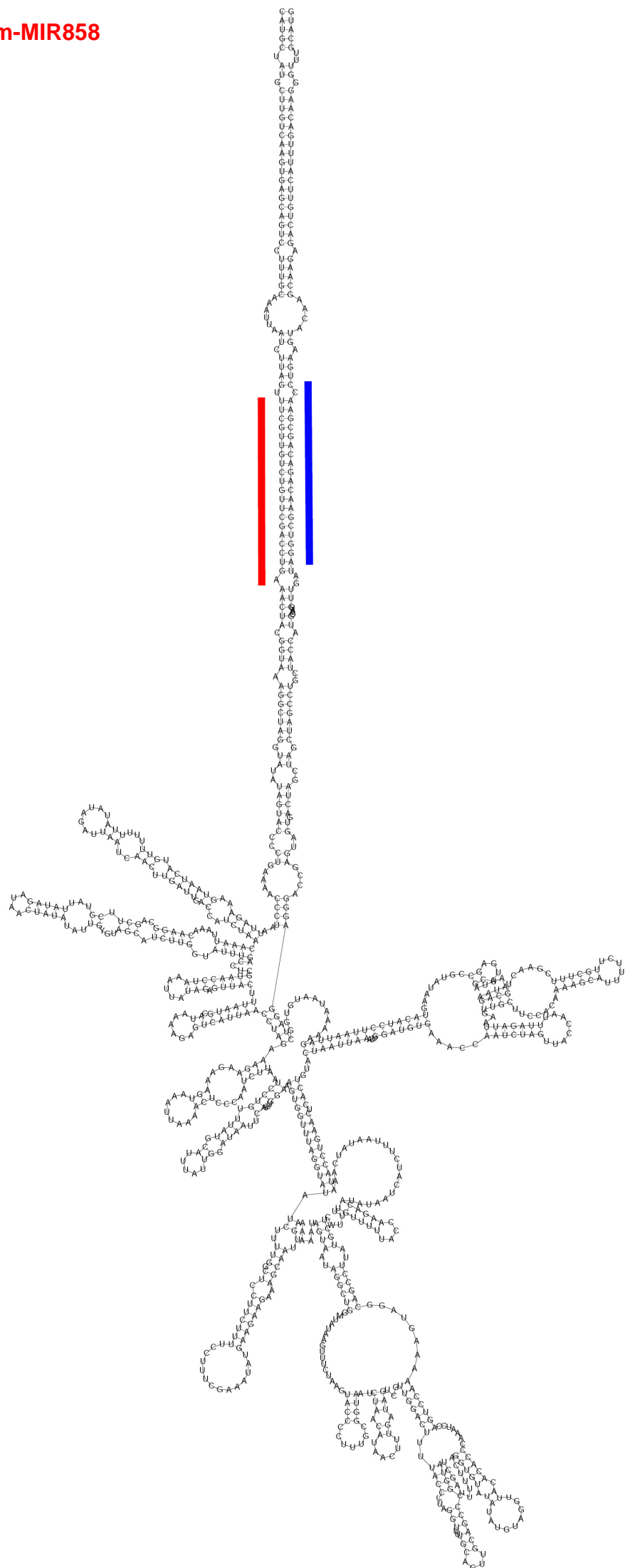
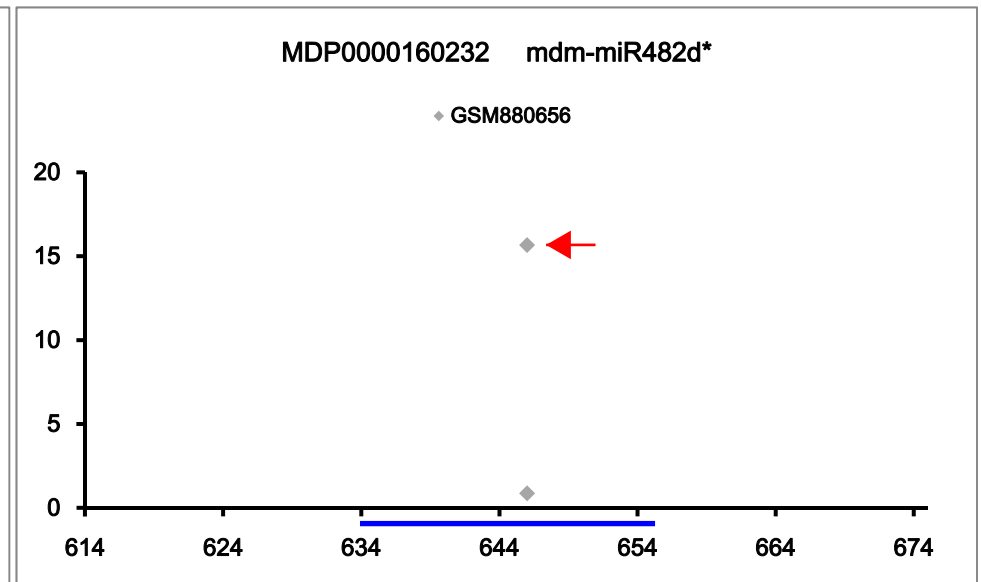
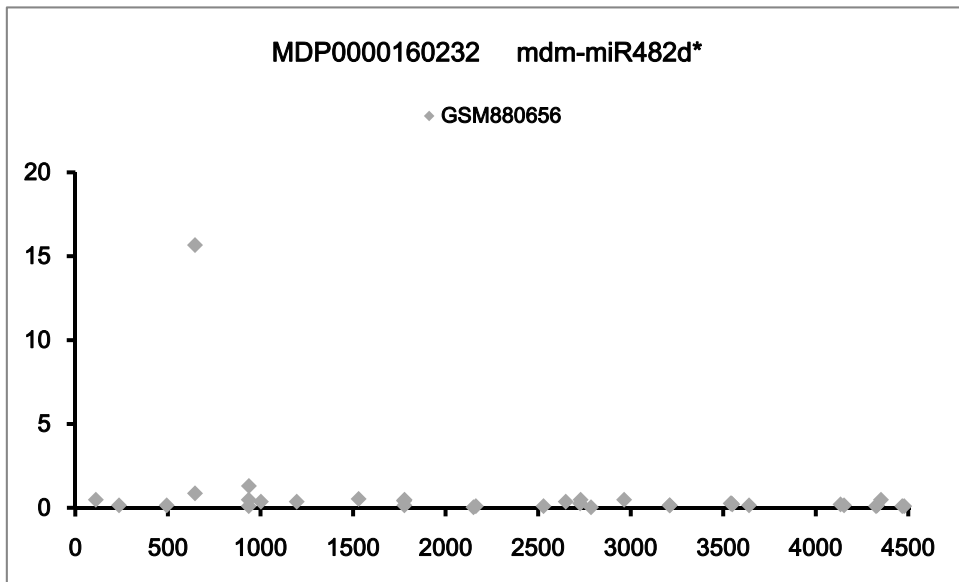
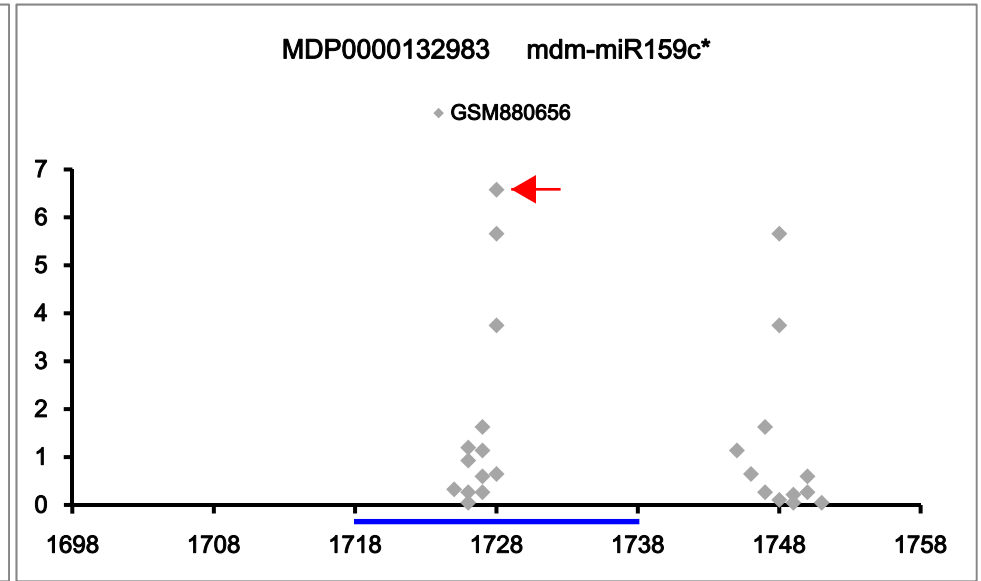
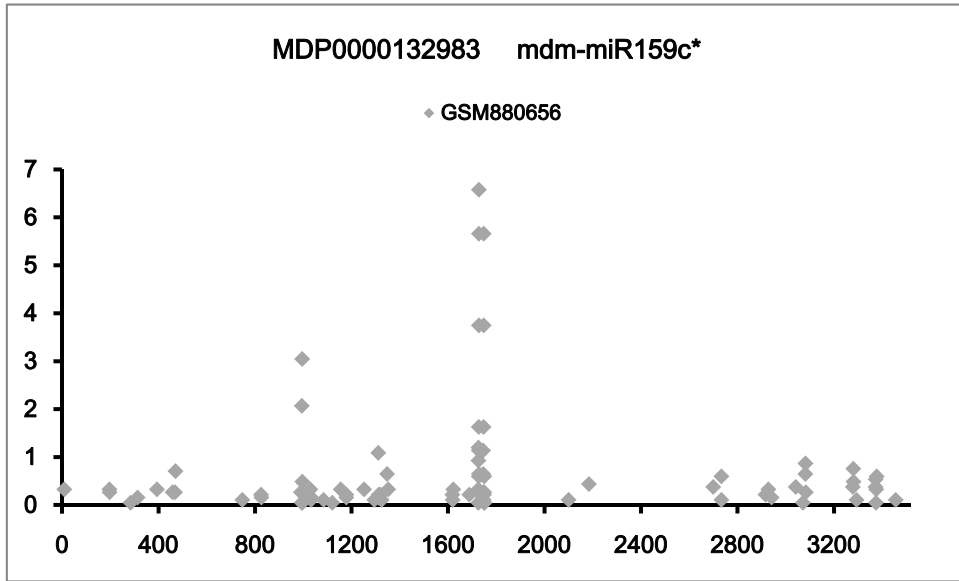
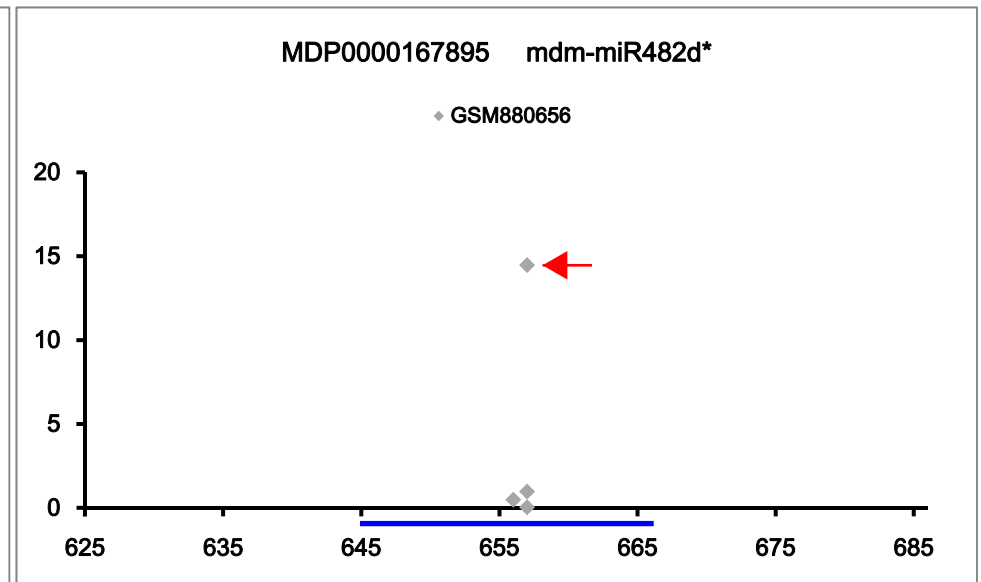
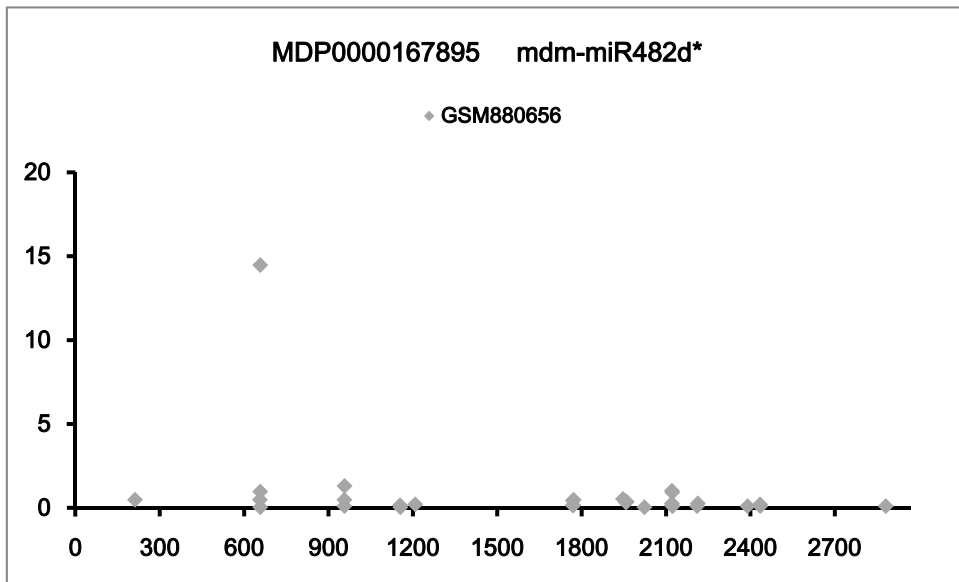
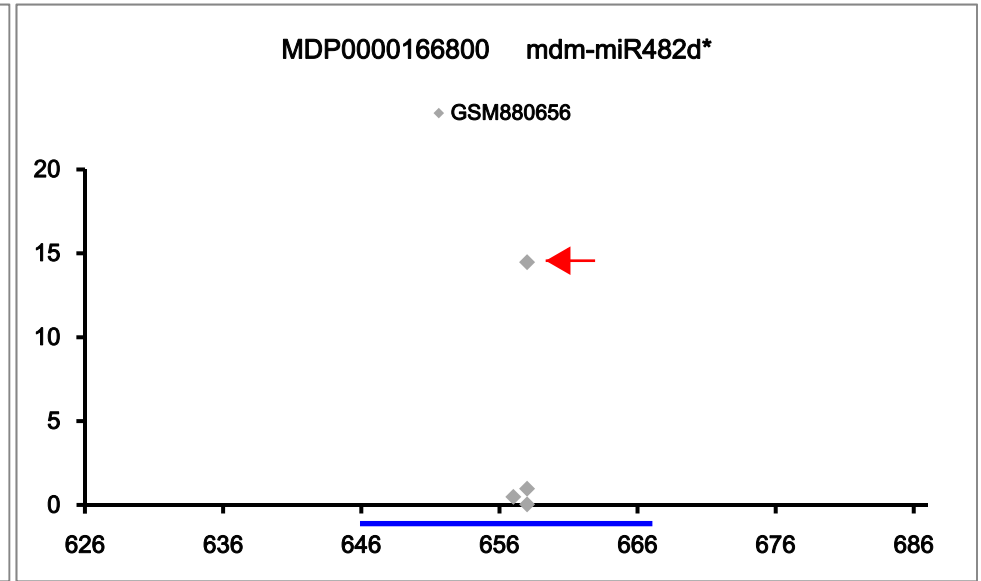
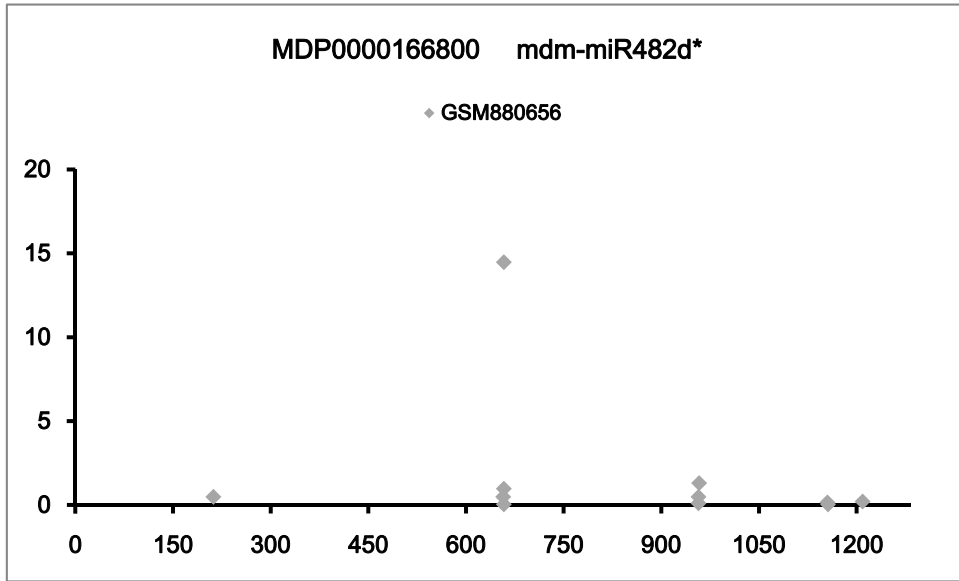
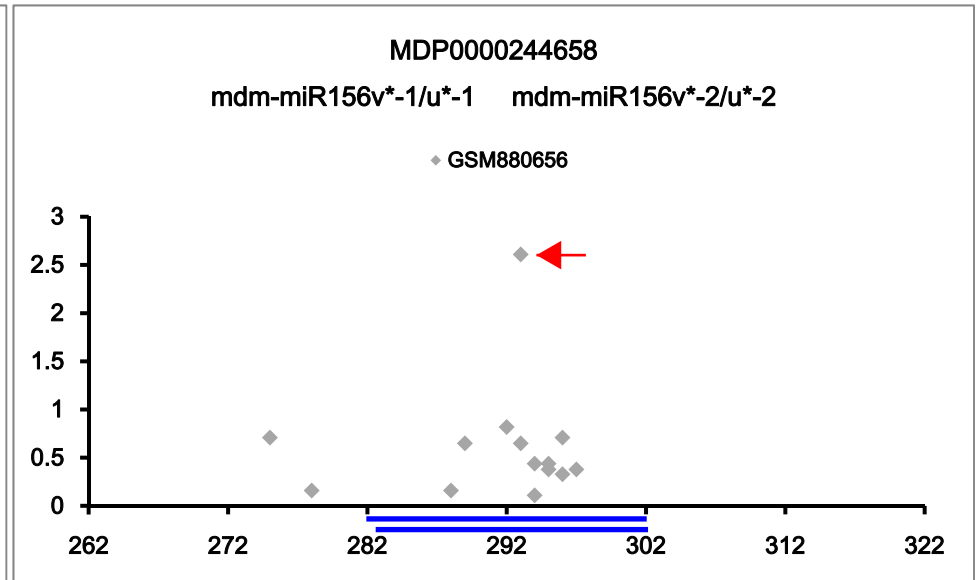
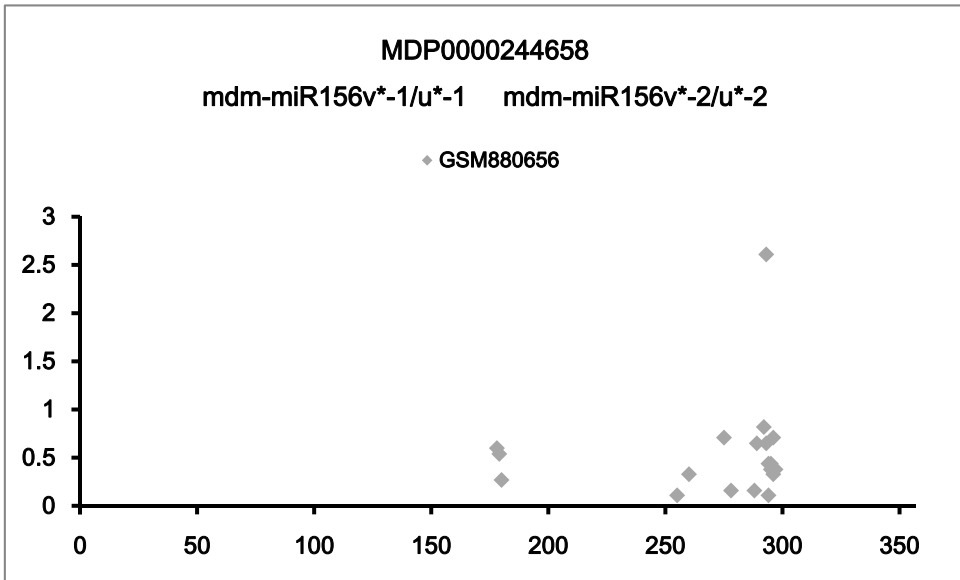
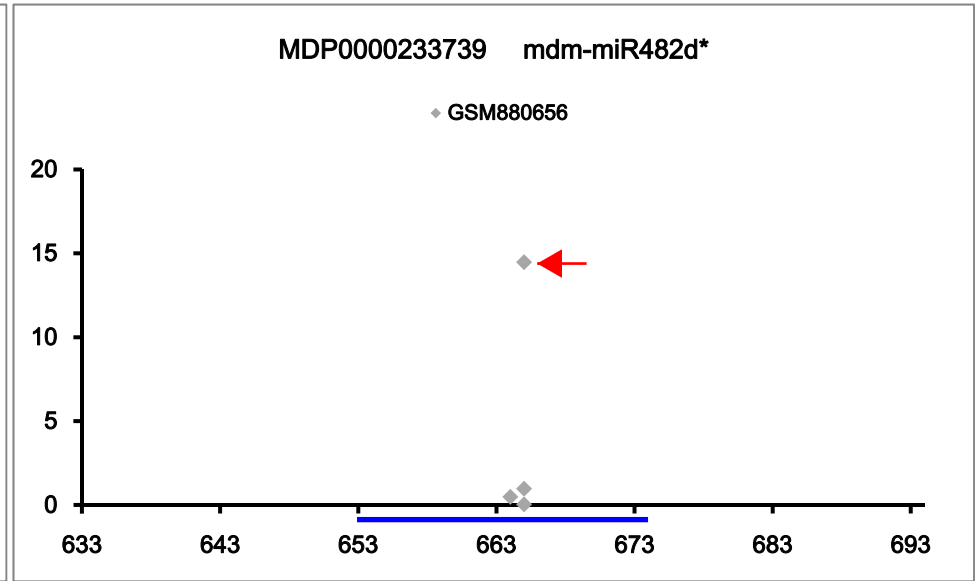
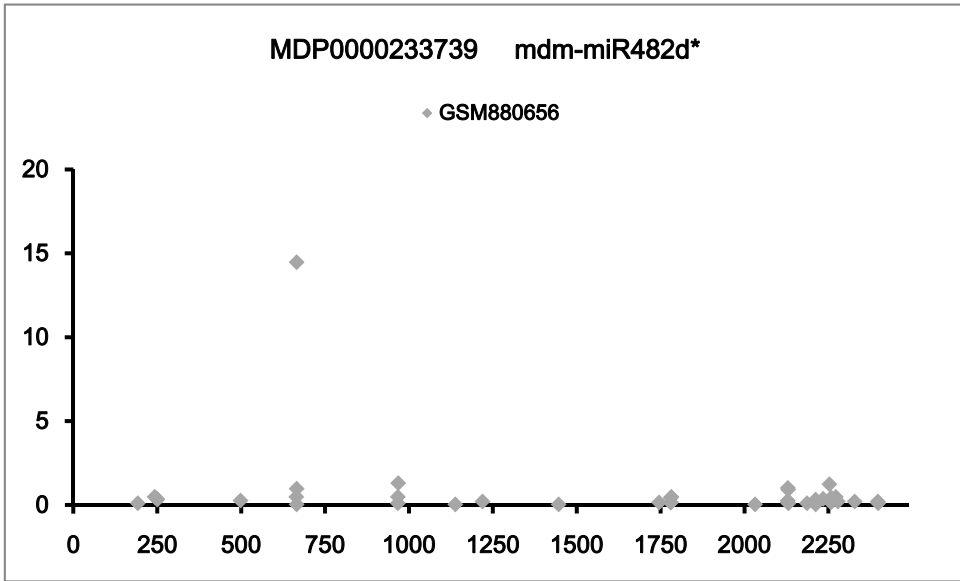
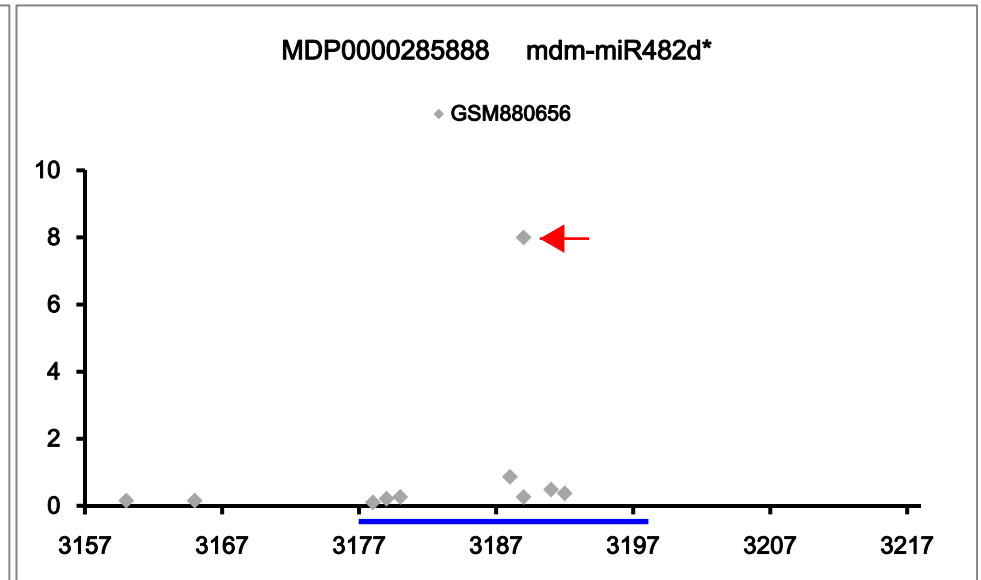
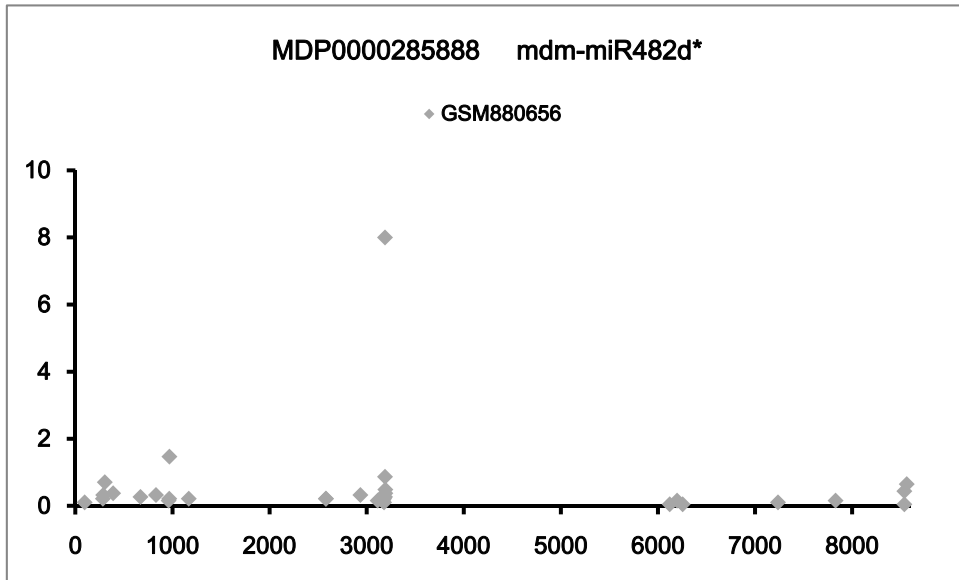
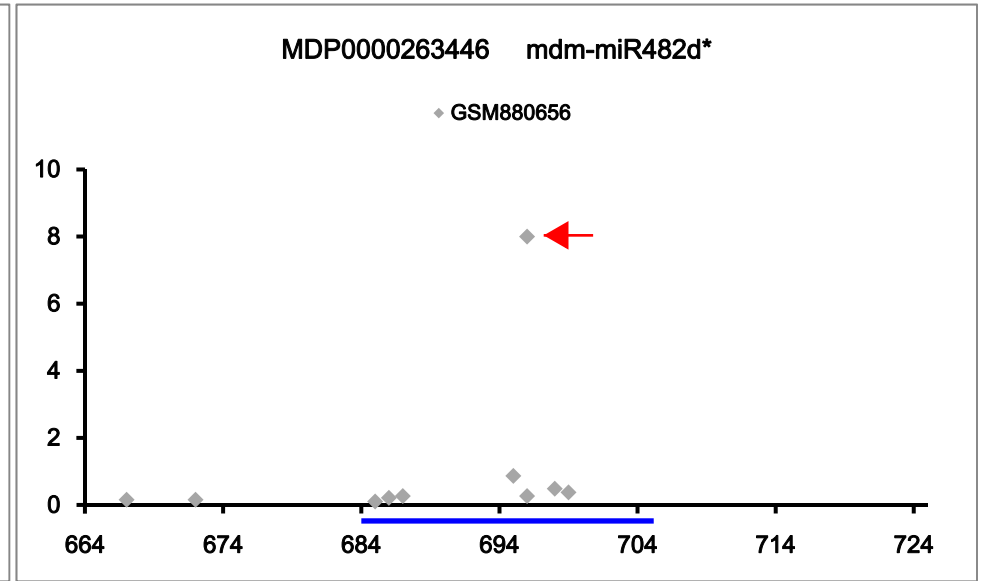
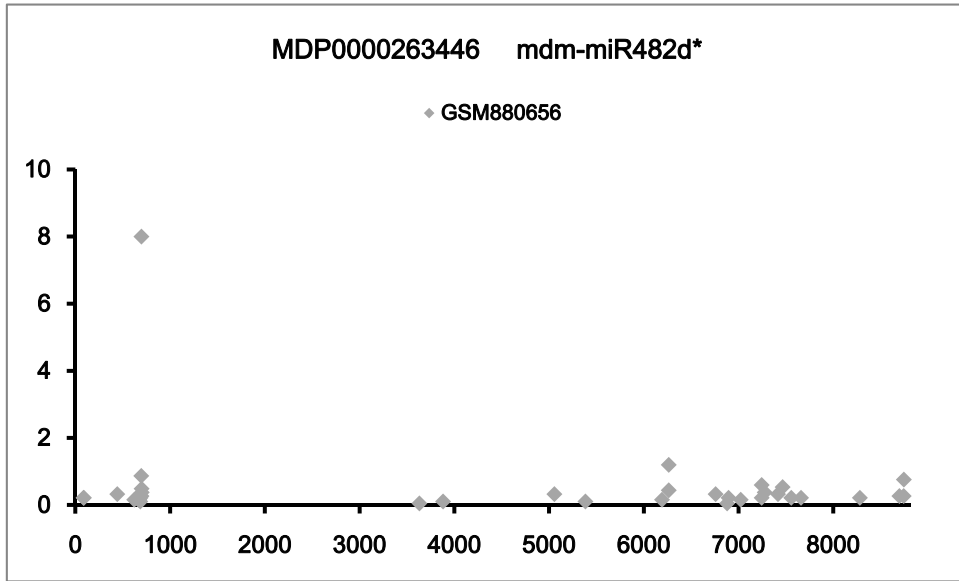


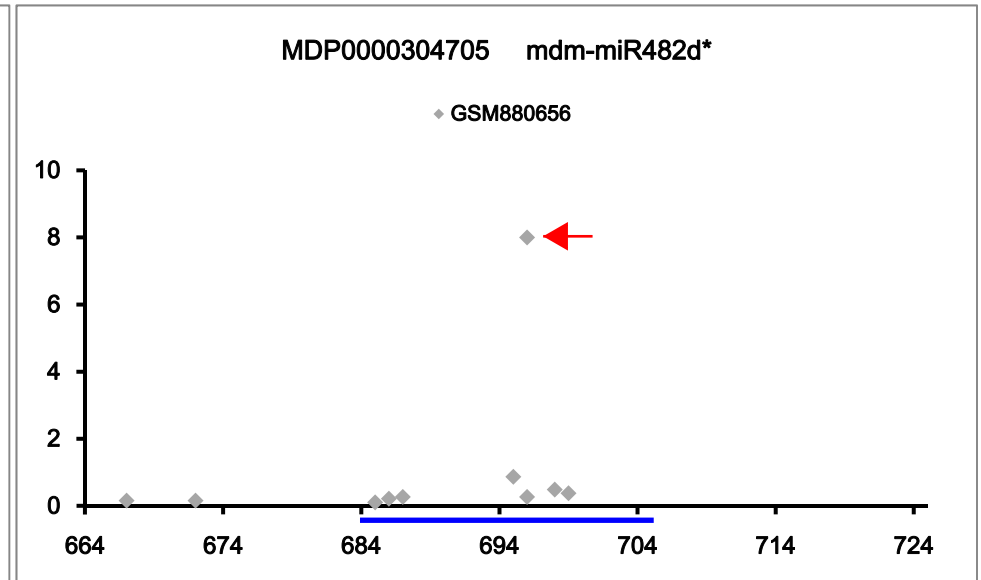
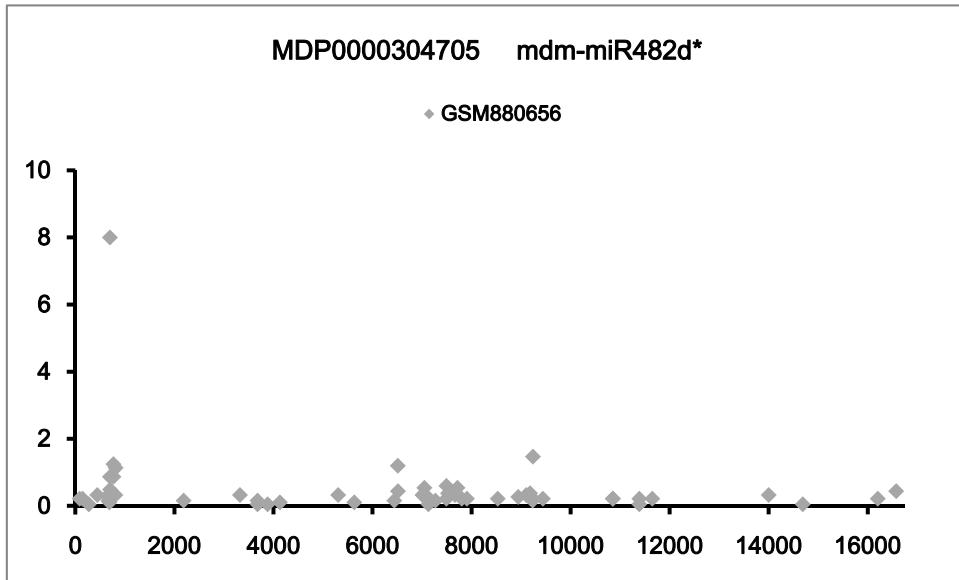
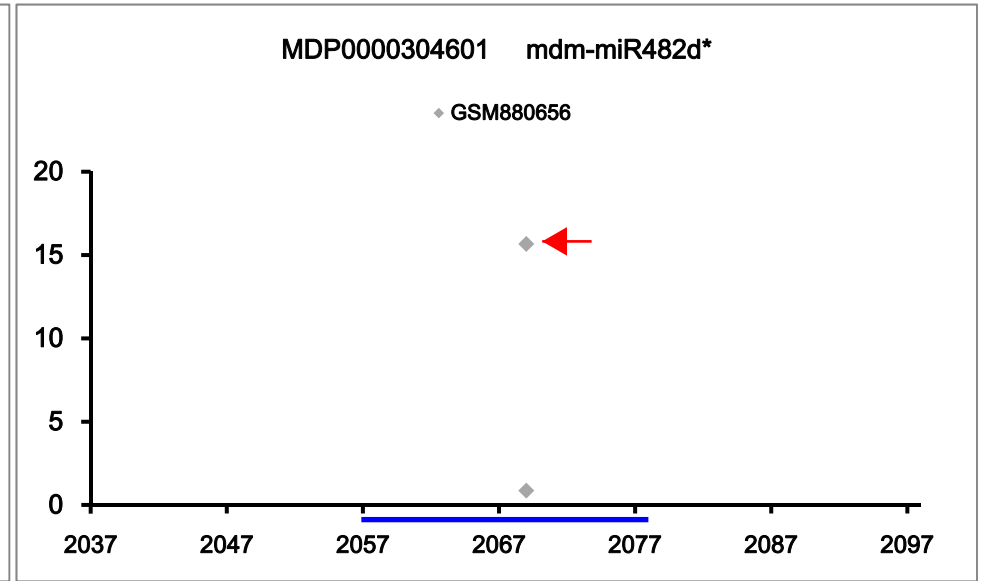
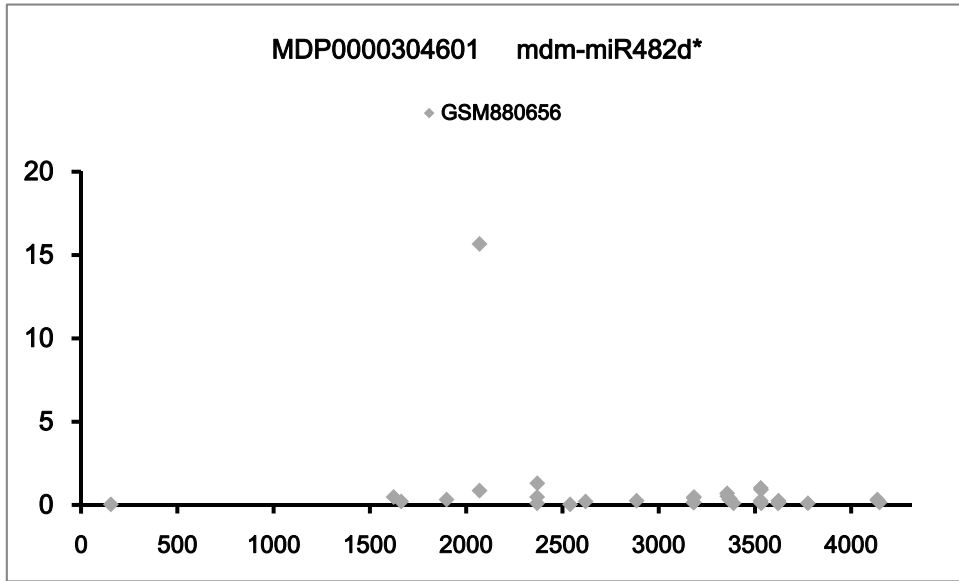
Figure S2 Degradome sequencing data-based validation of the targets regulated by the microRNA*s (miRNA*s) in apple. For all the figure panels, the IDs of the target transcripts and the miRNA*s are listed on the top. The *y* axes measure the intensity (in RPM, reads per million) of the degradome signals, and the *x* axes indicate the positions of the degradome signatures on the target transcripts. All the left panels provide global views of the degradome signals, and the right panel provide detailed views of the degradome signals surrounding the miRNA* binding sites (denoted by blue horizontal lines). In all the right panels the dominant cleavage signals were marked by red arrowheads.

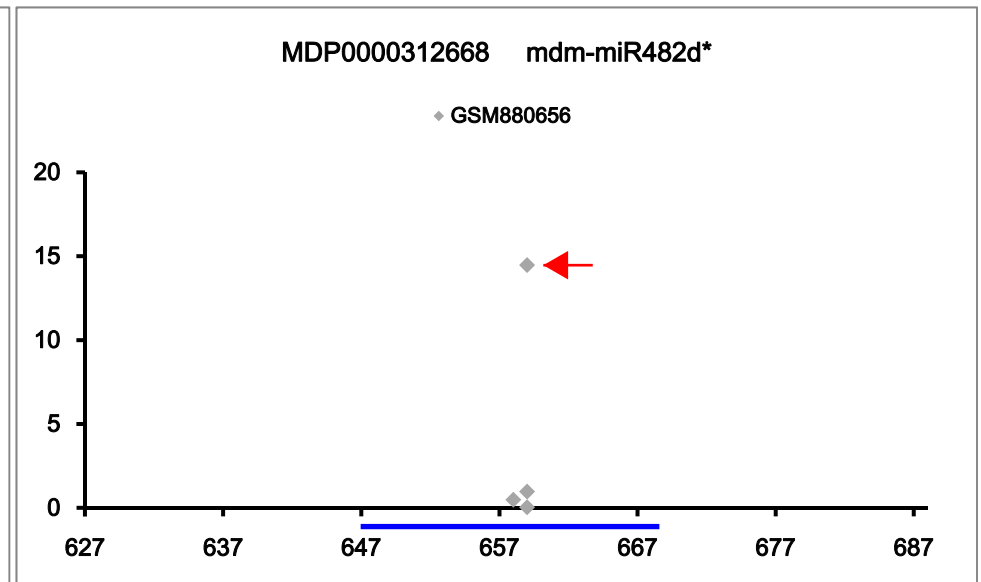
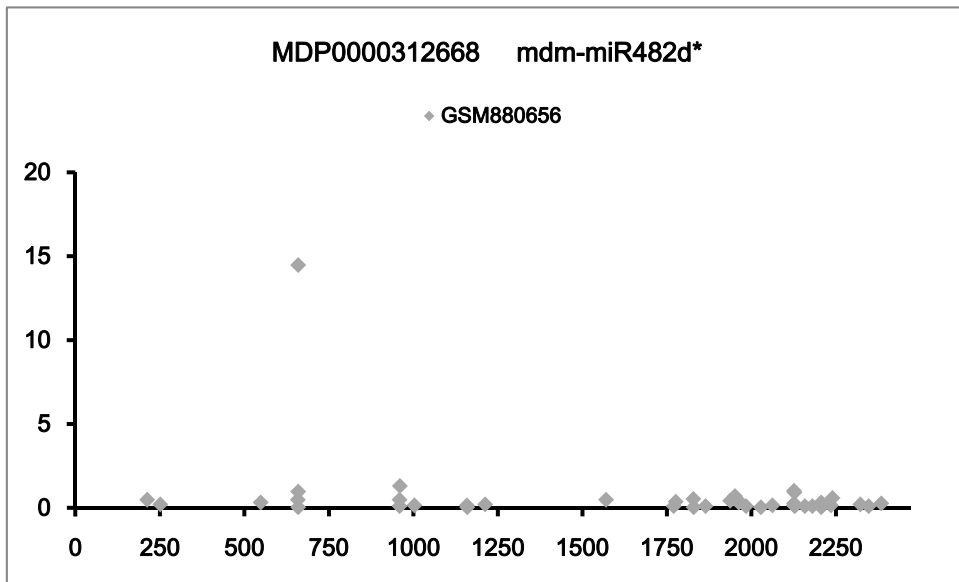
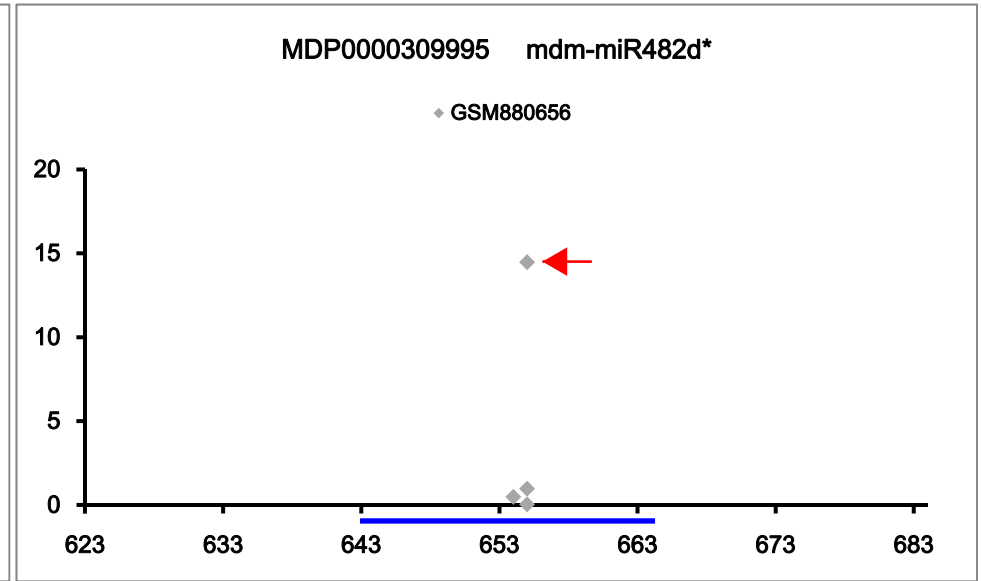
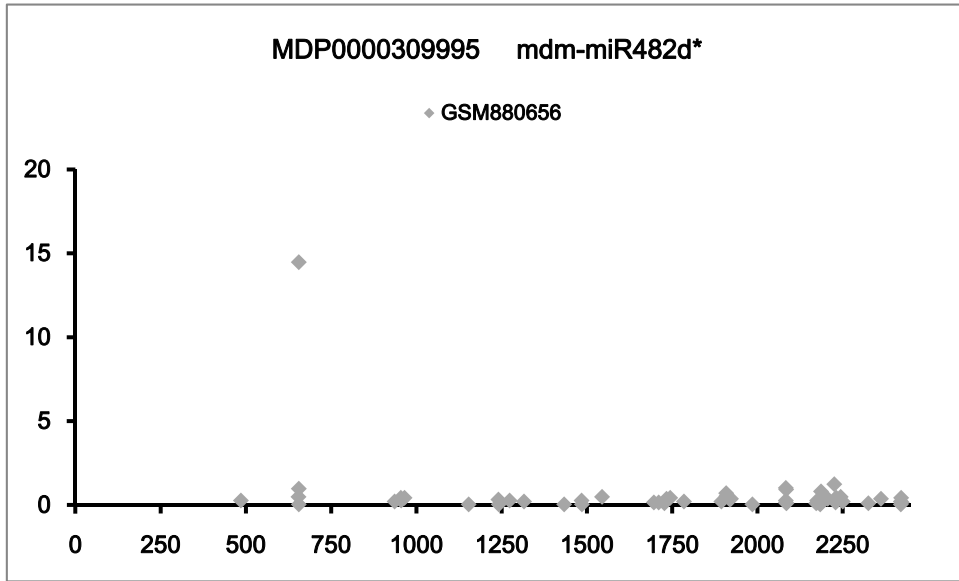


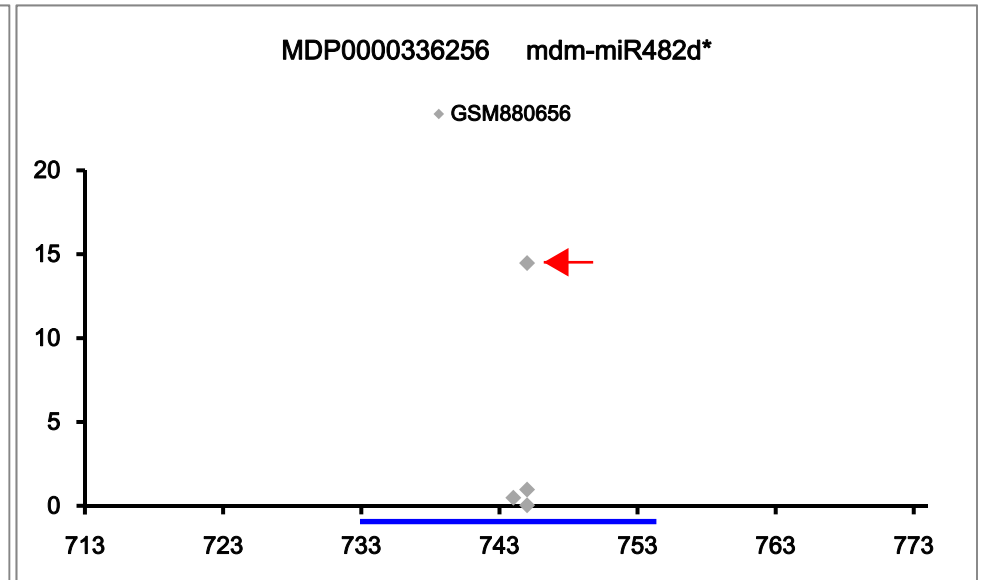
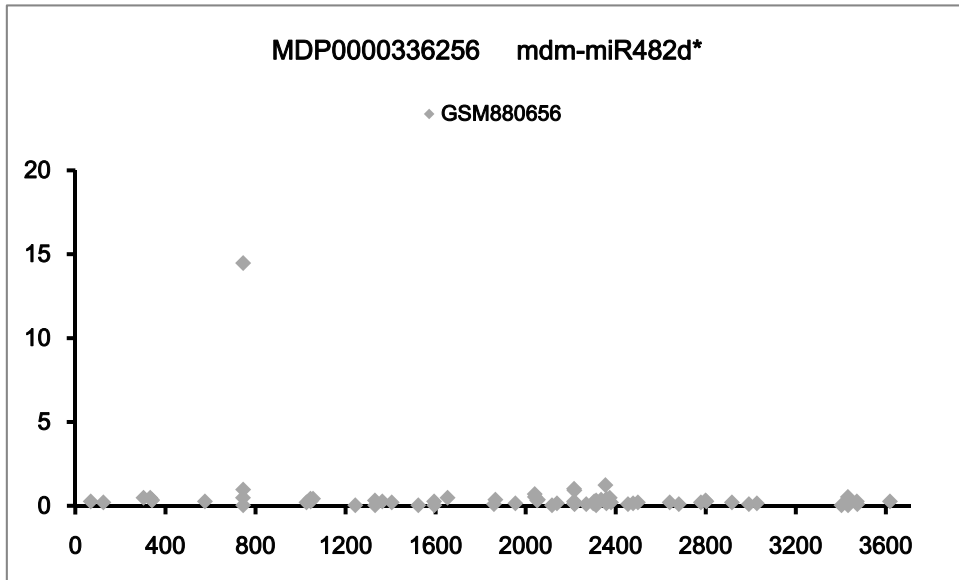
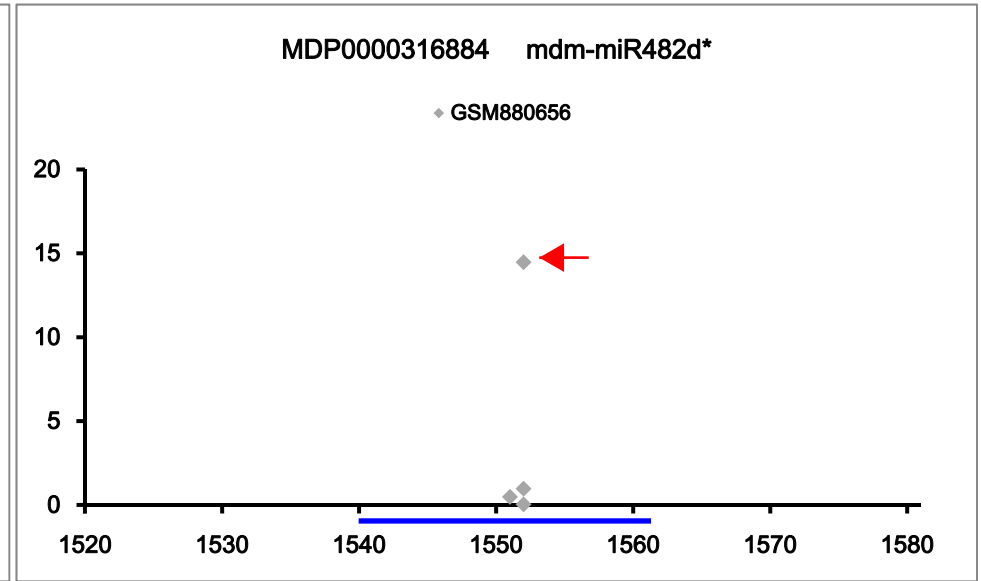
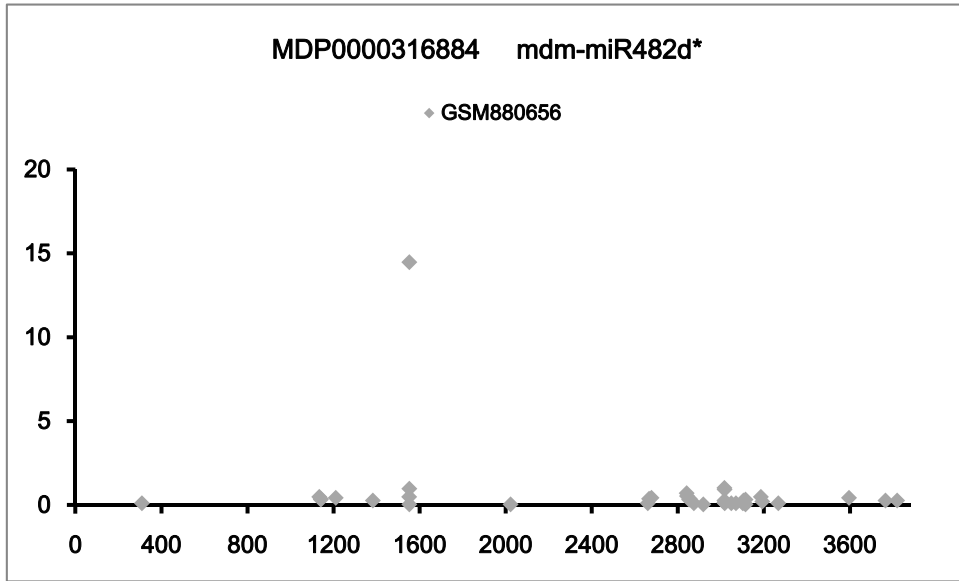


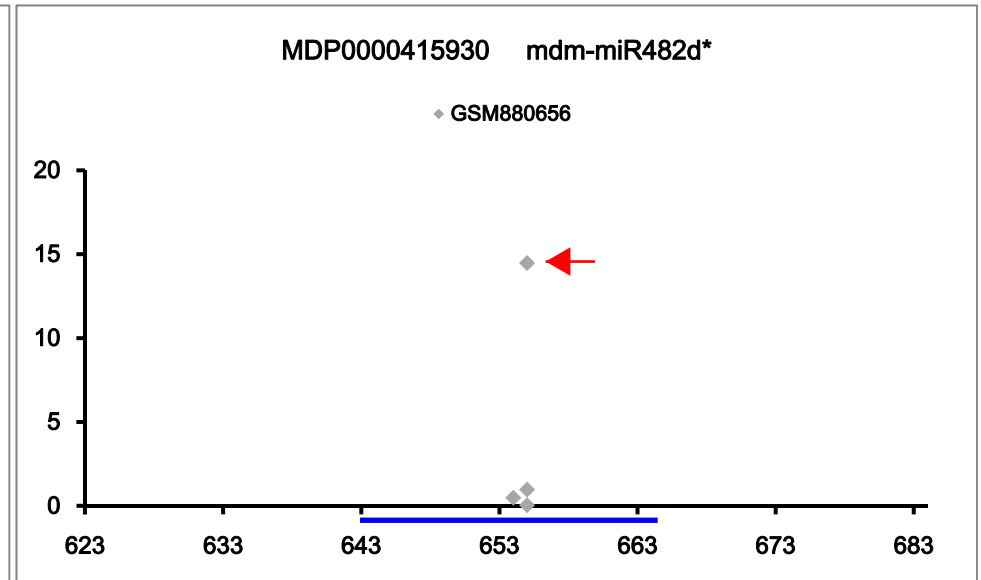
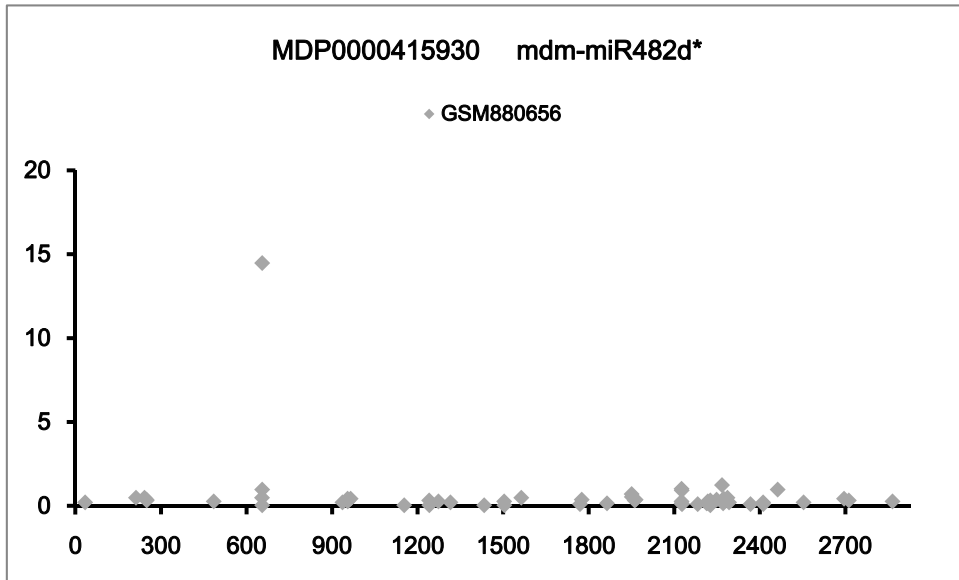
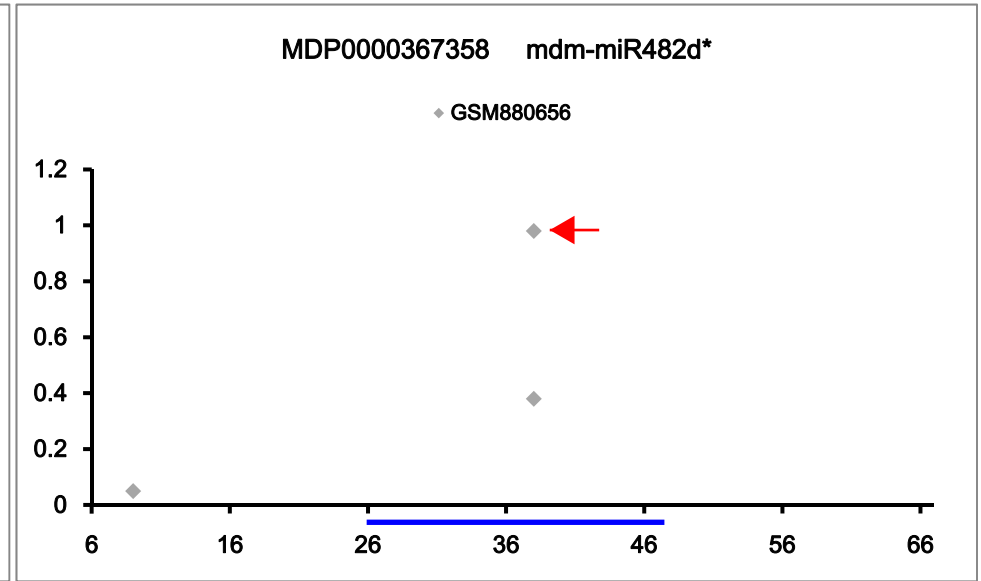
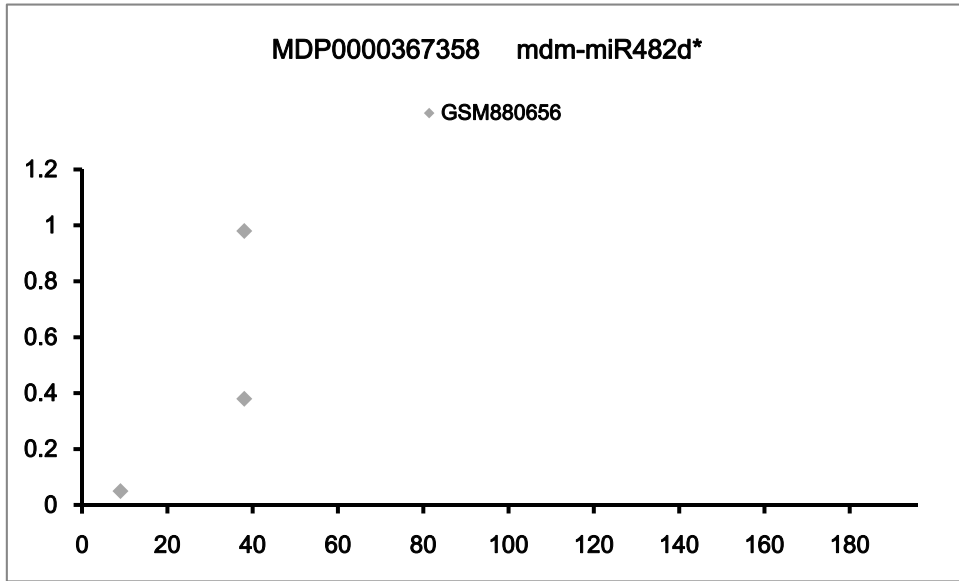


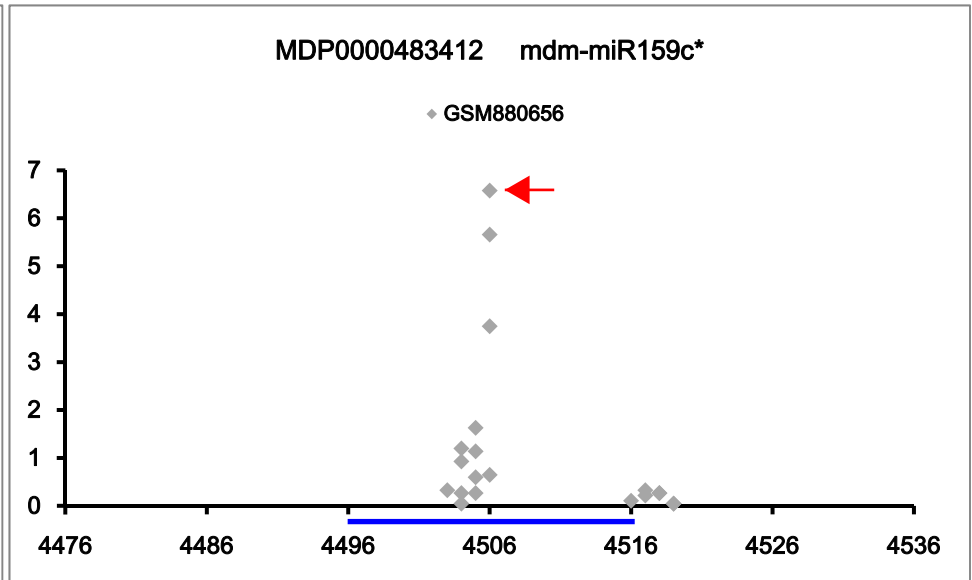
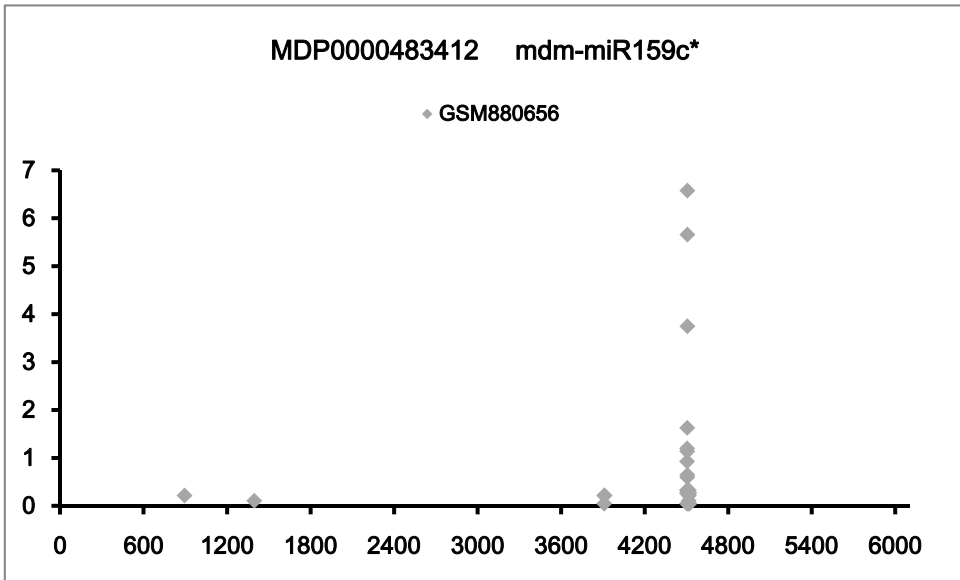
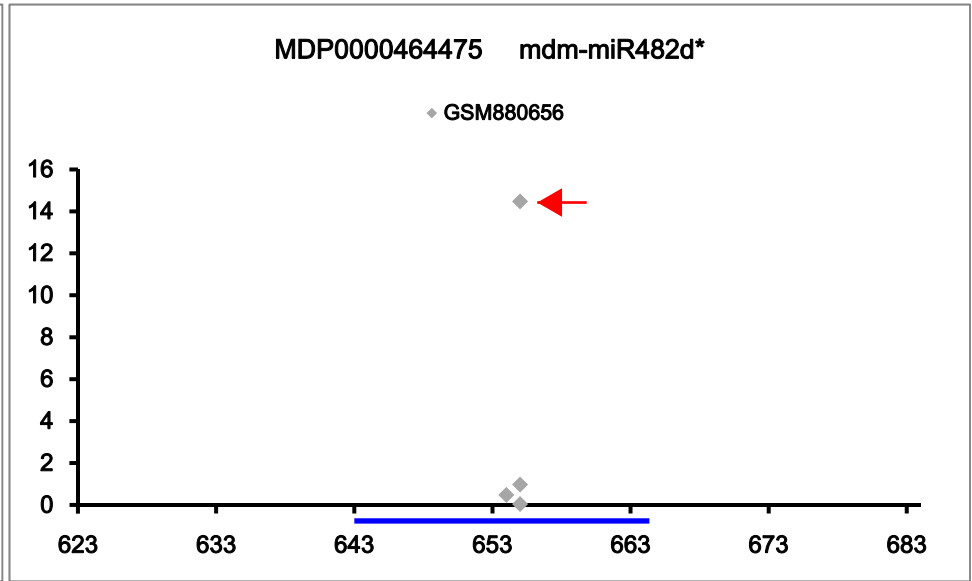
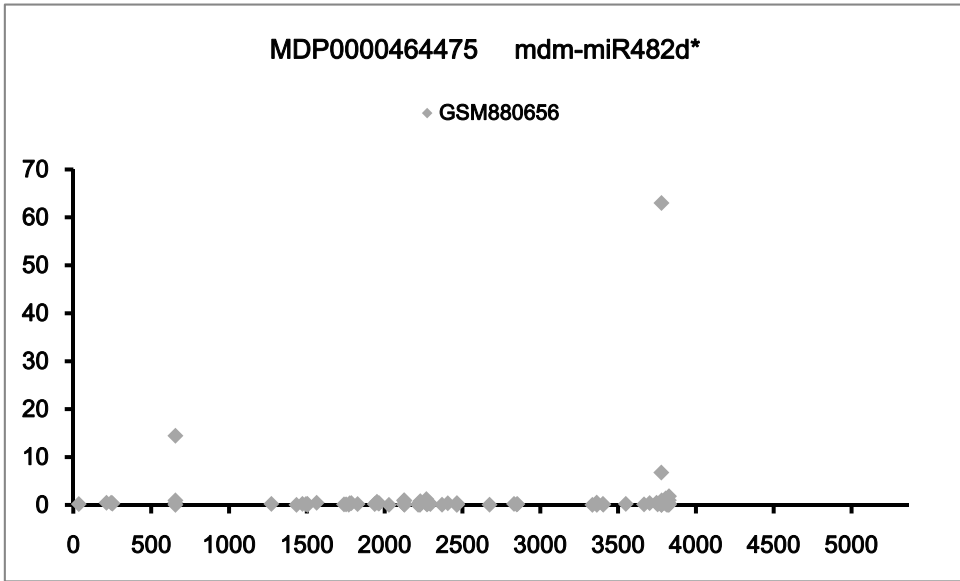


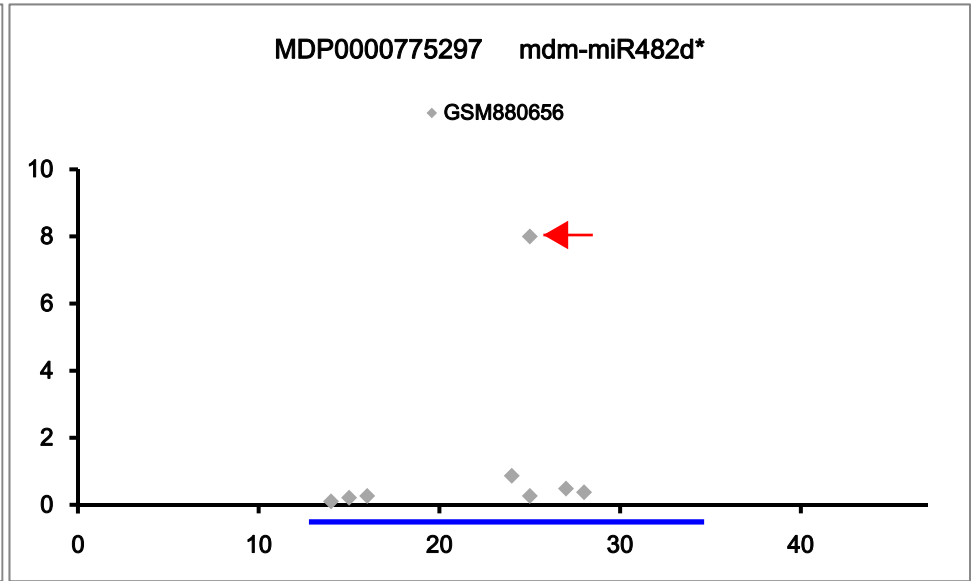
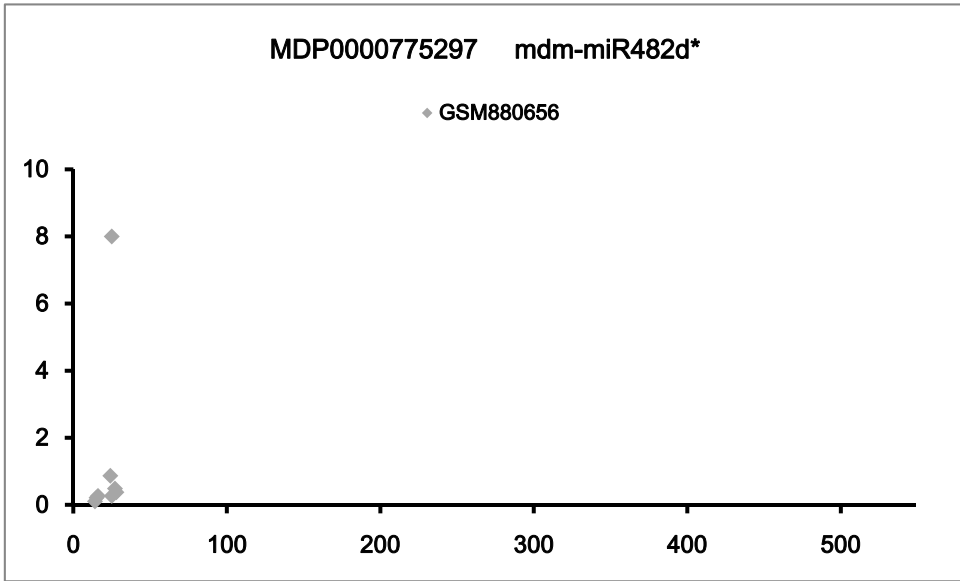
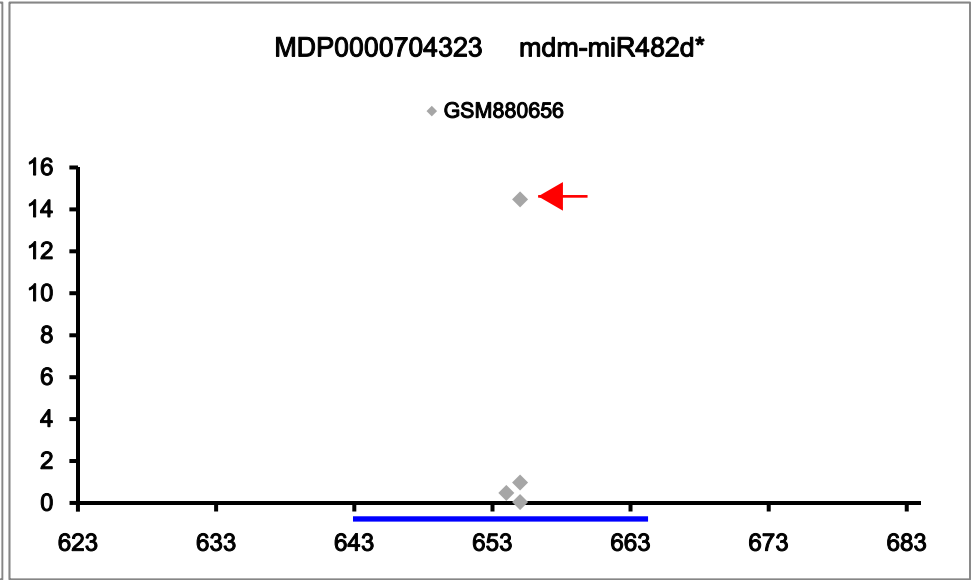
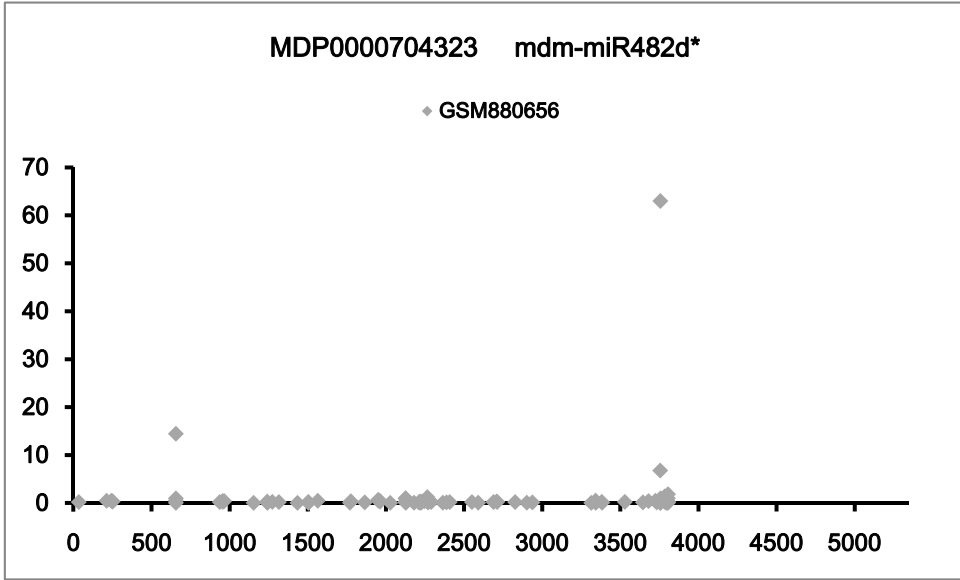


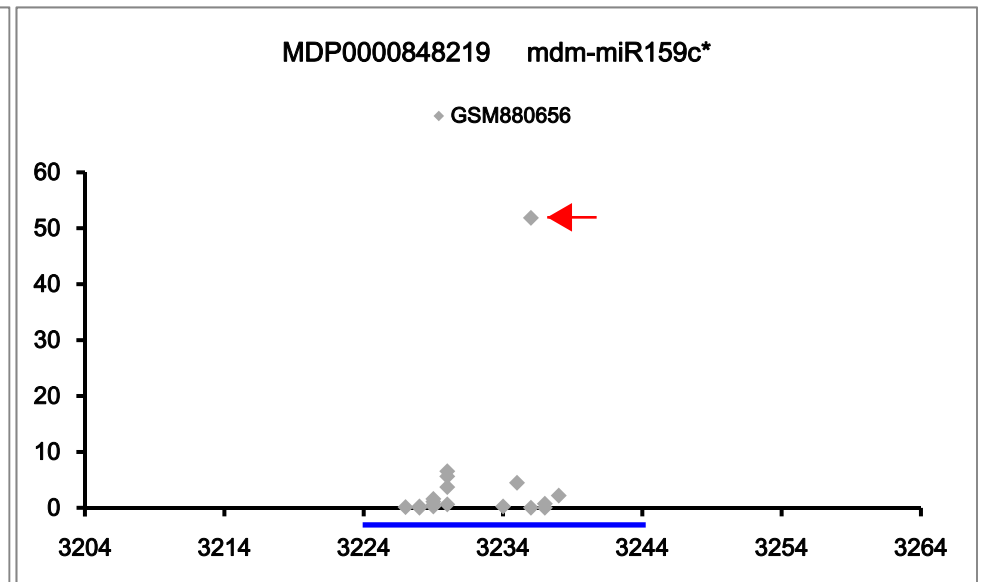
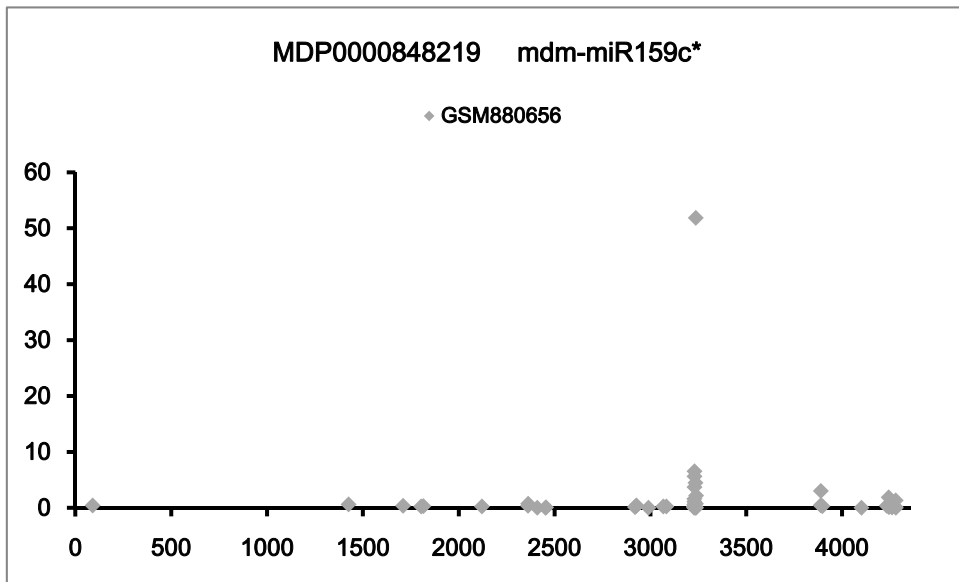
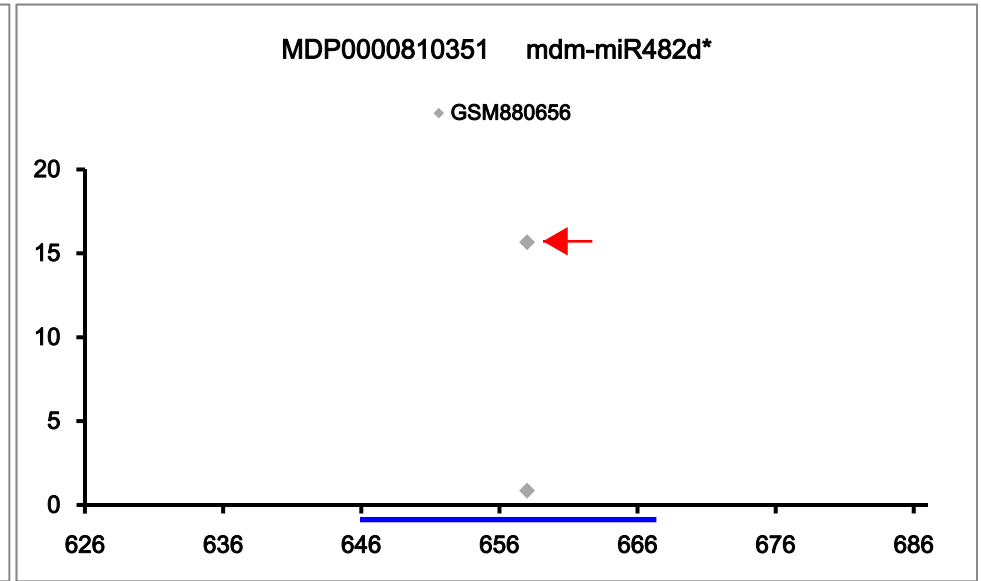
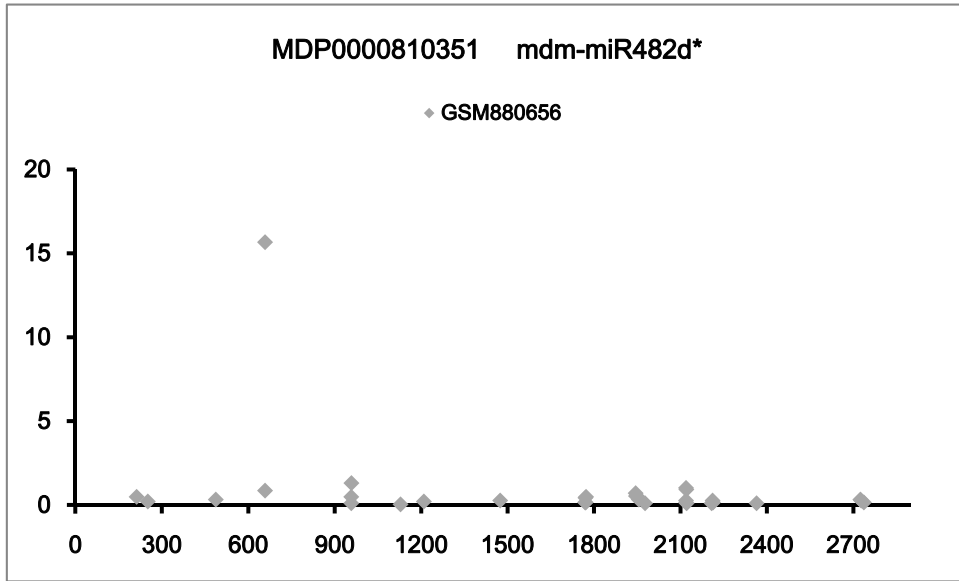


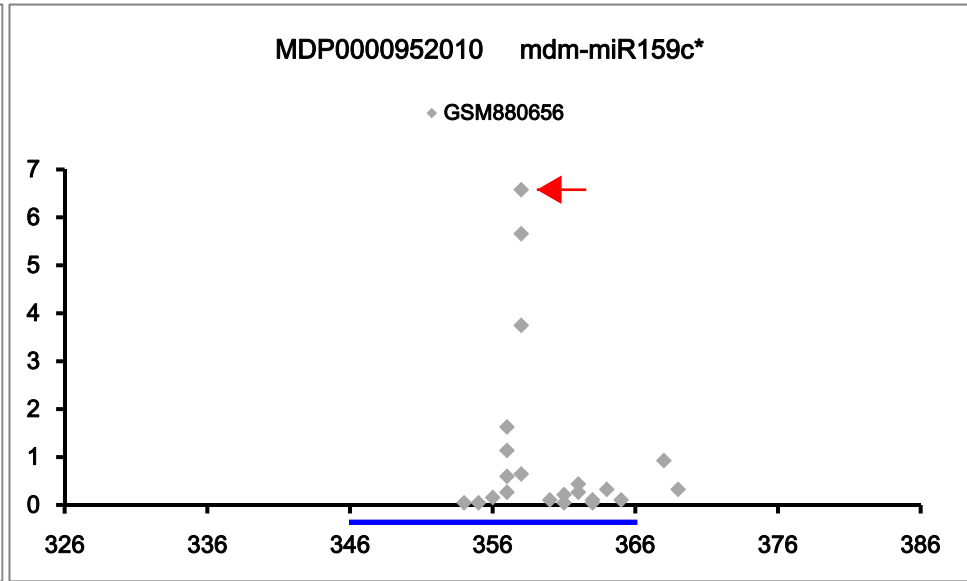
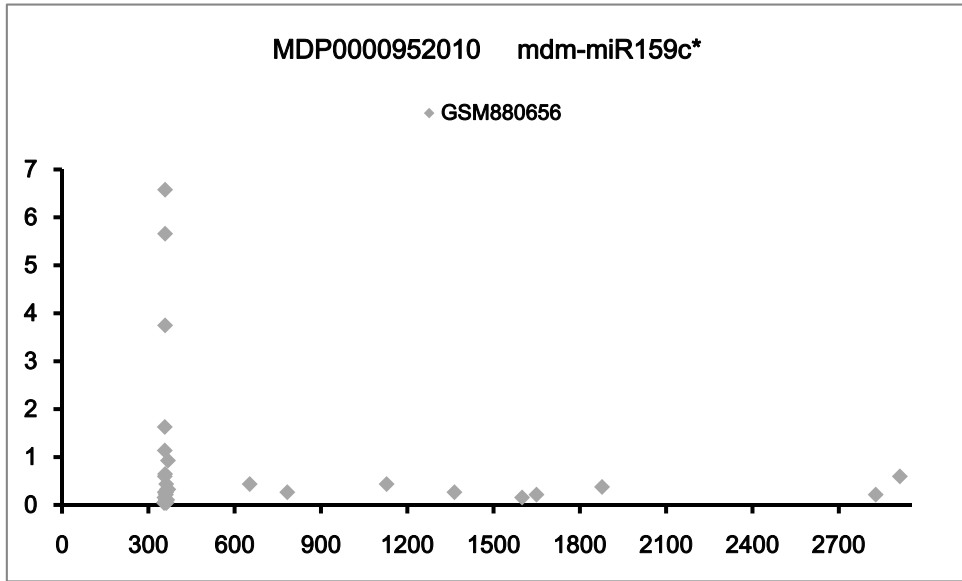


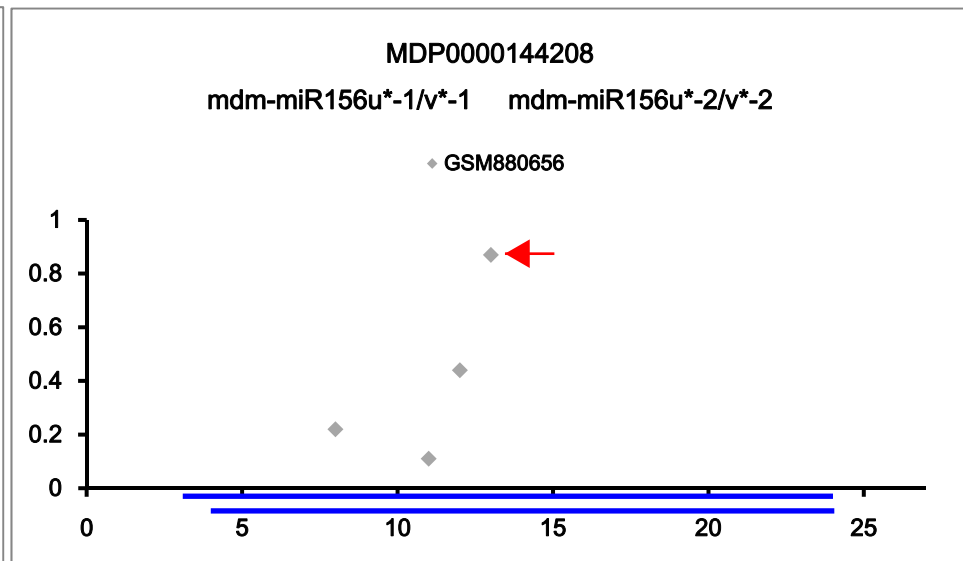
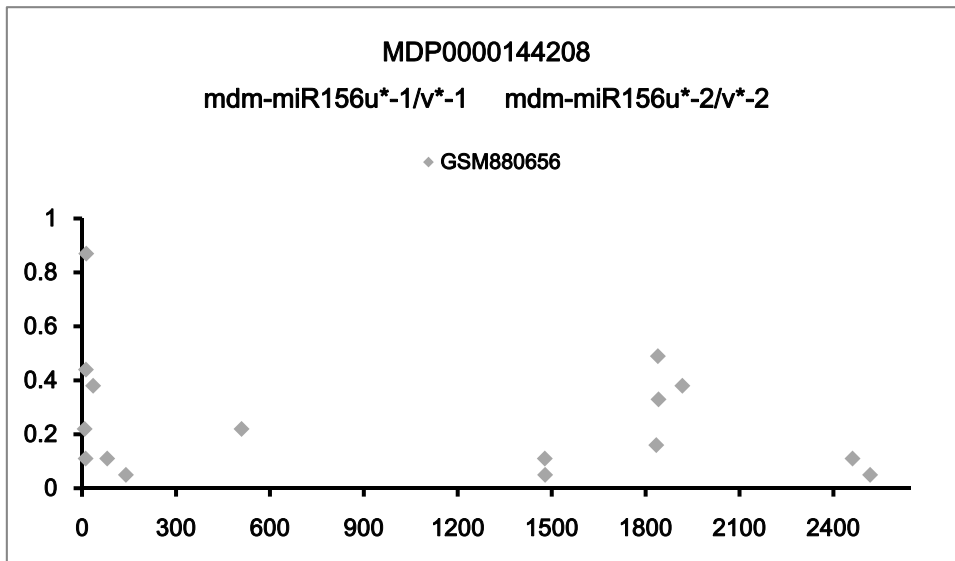
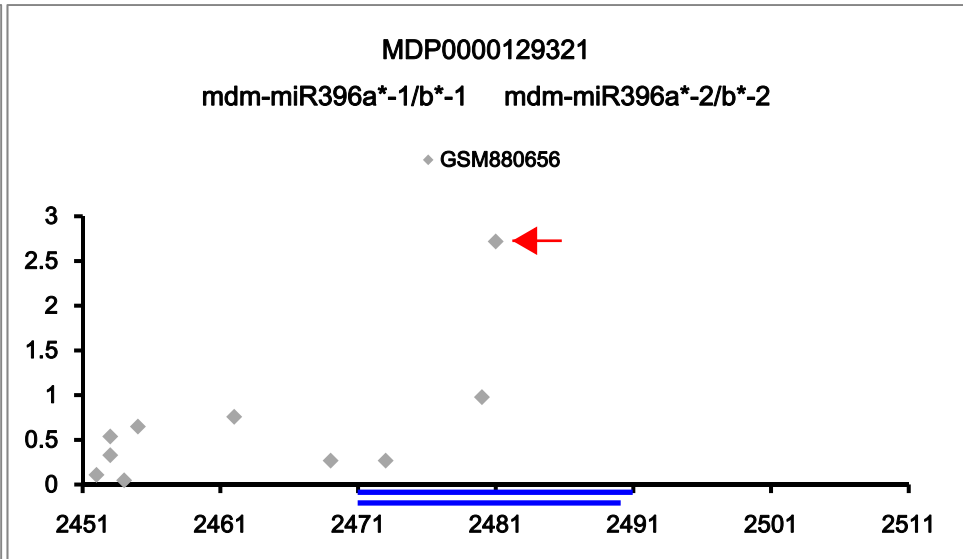
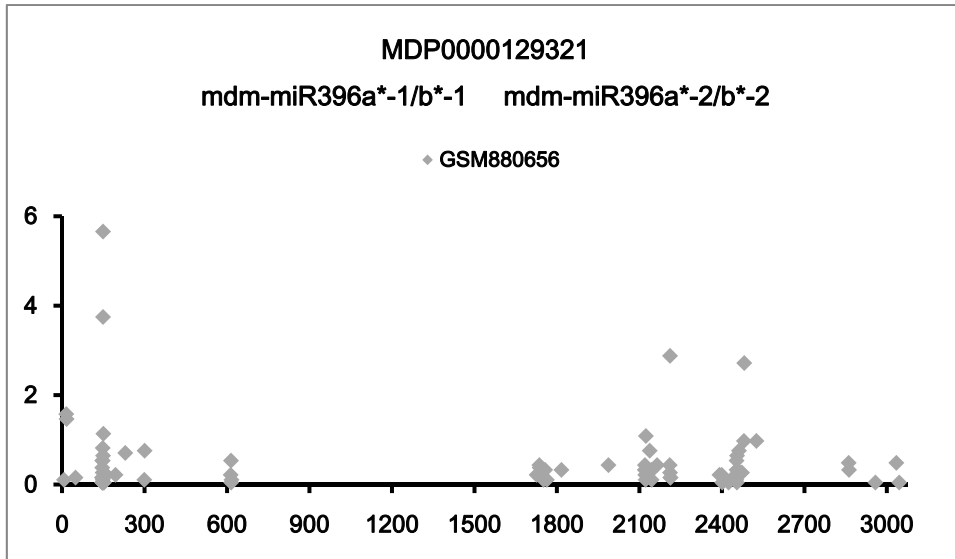


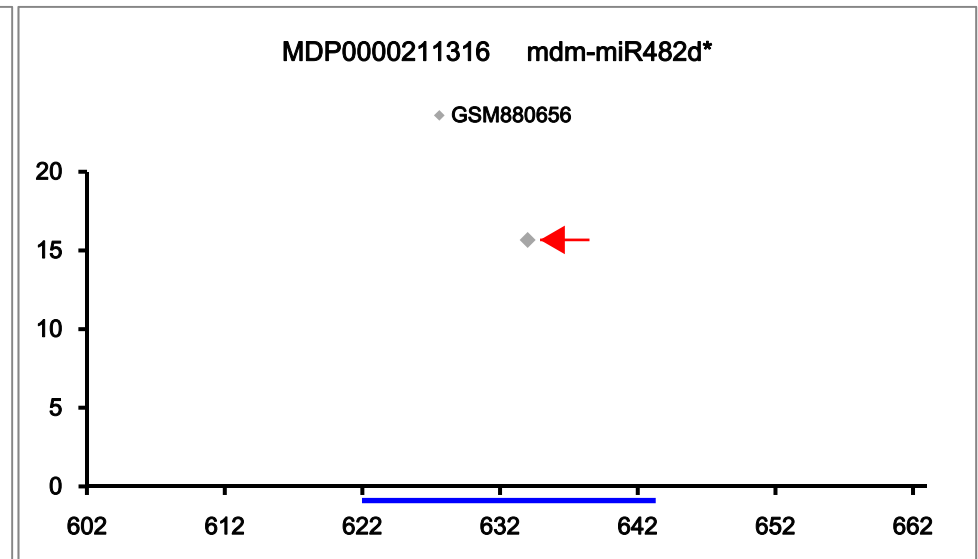
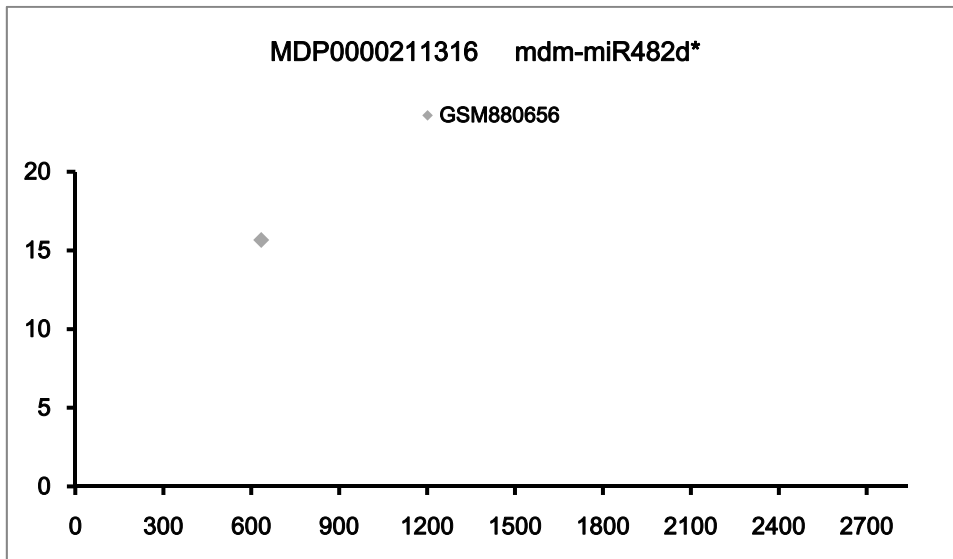
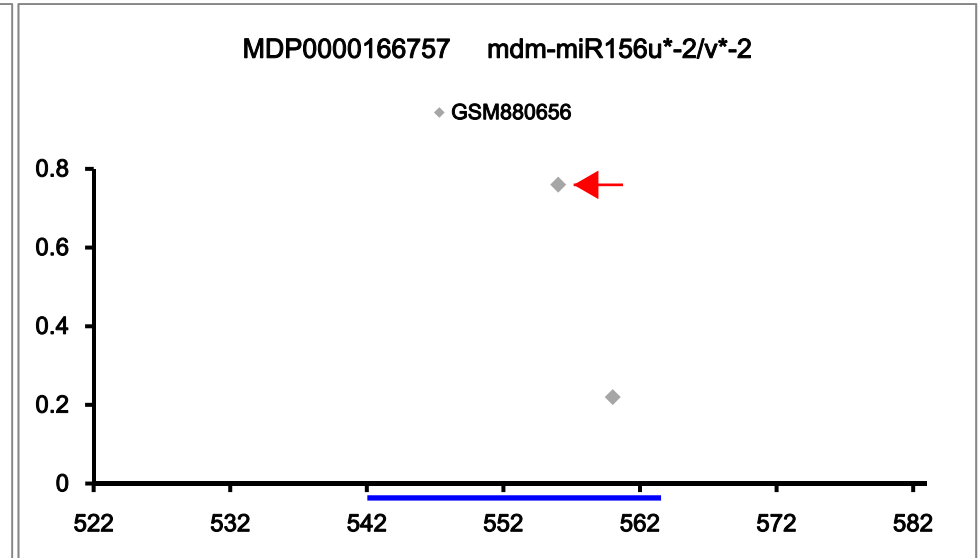
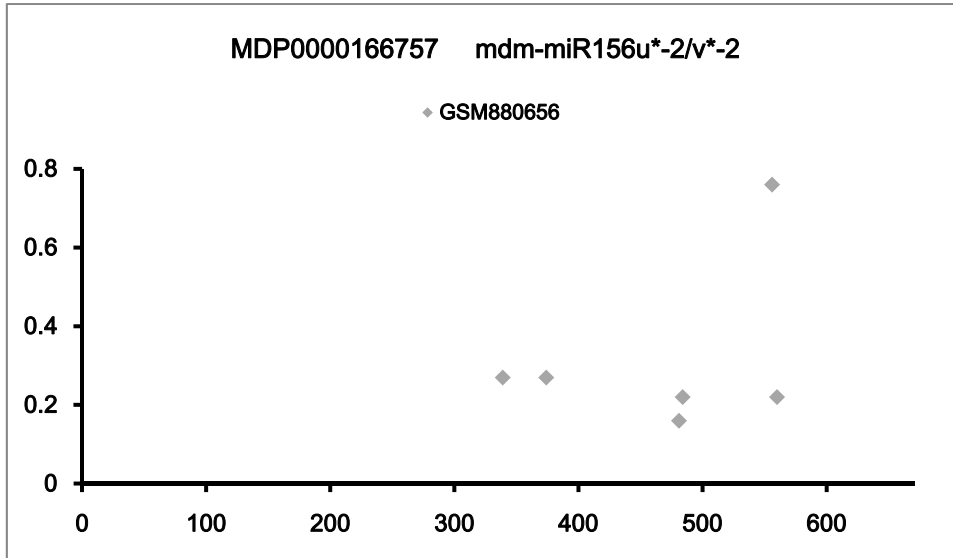


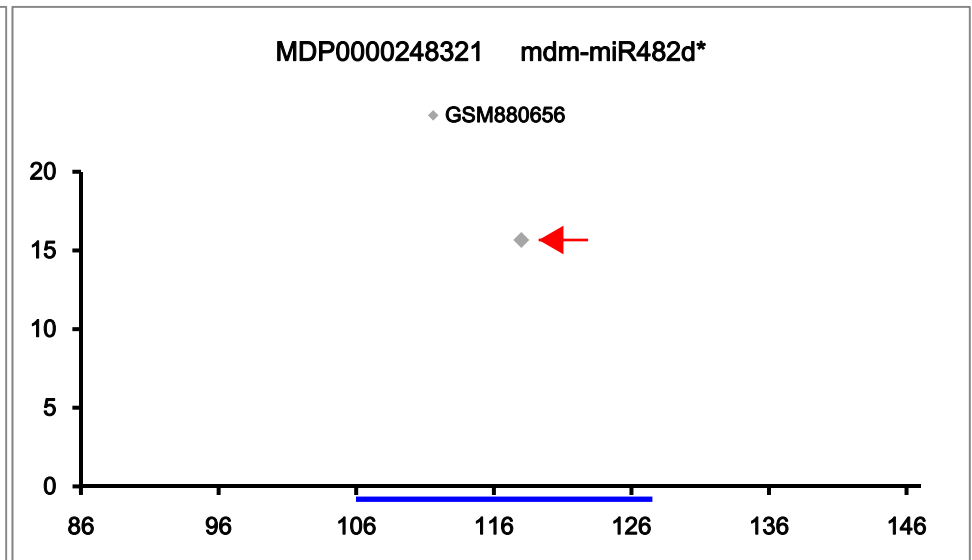
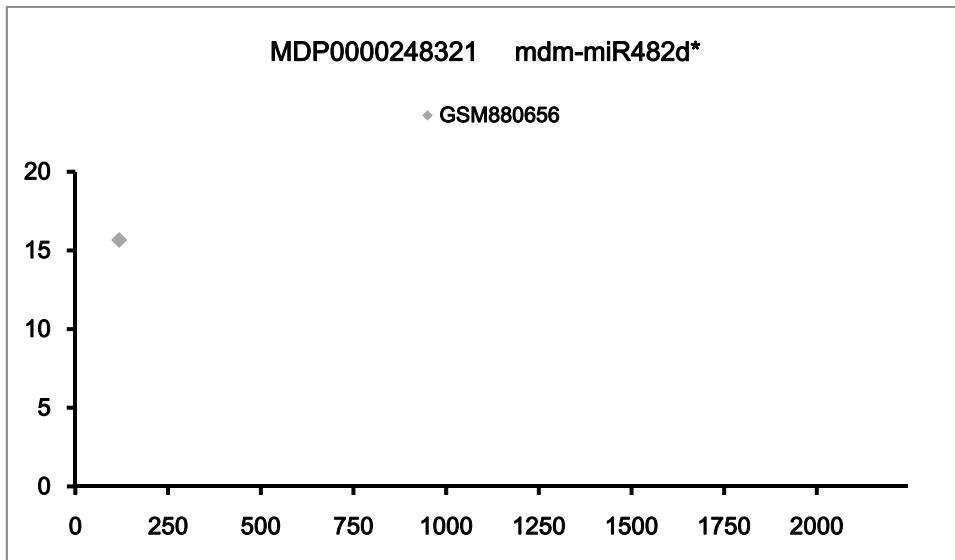
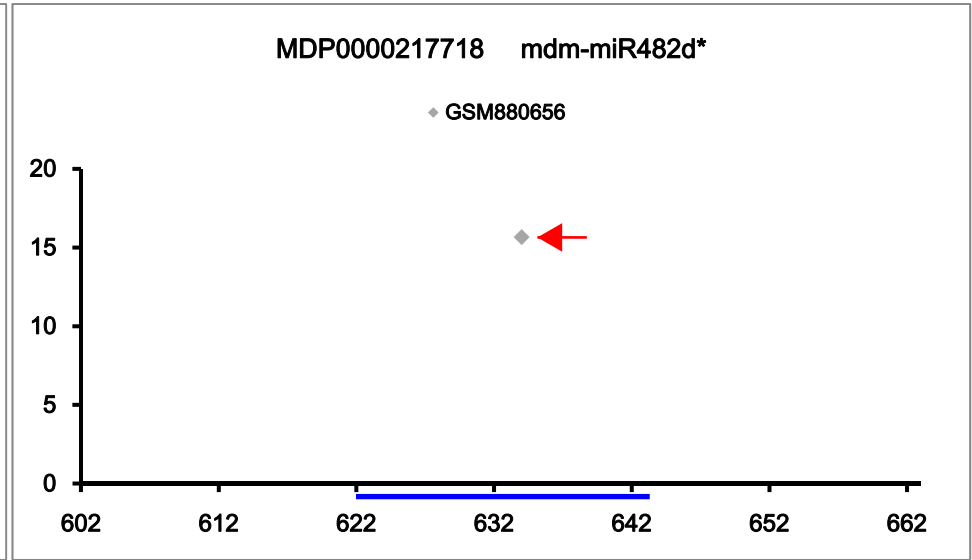
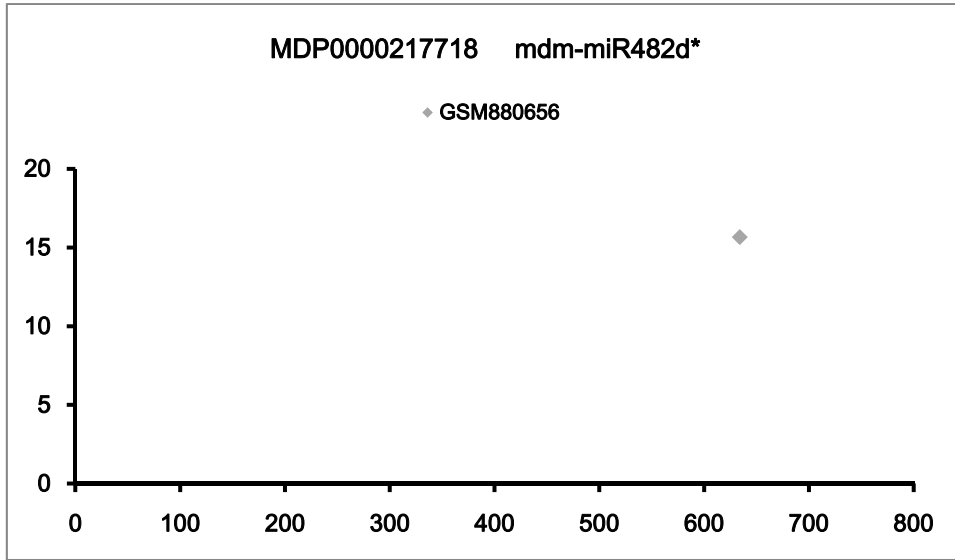


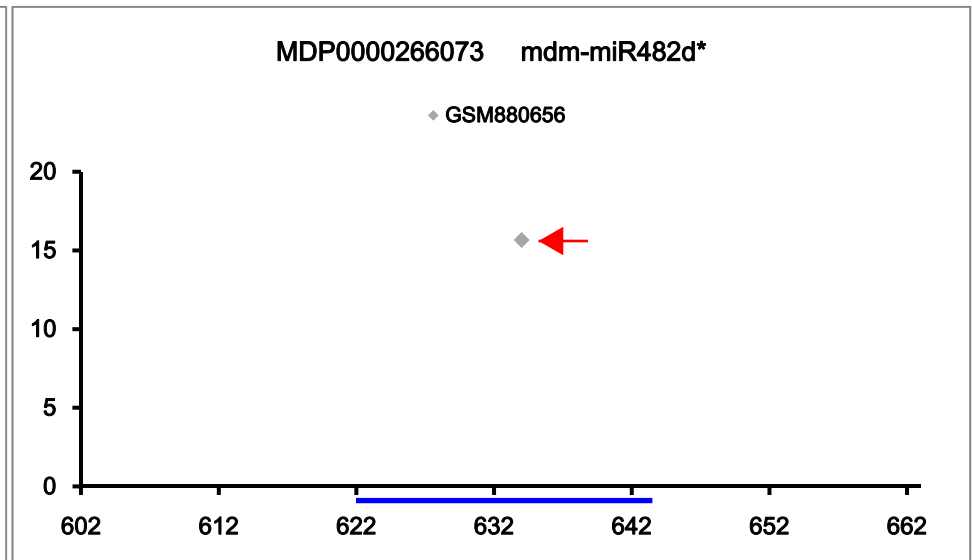
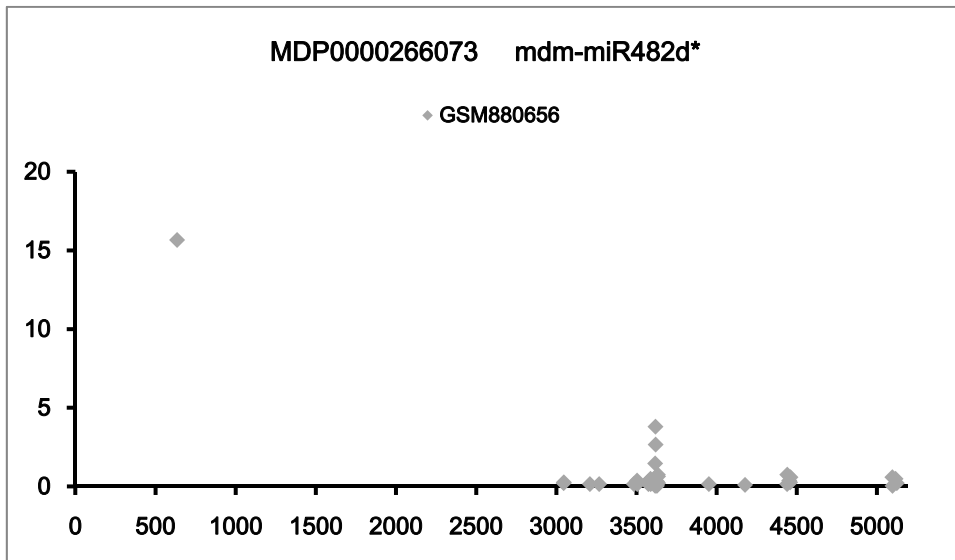
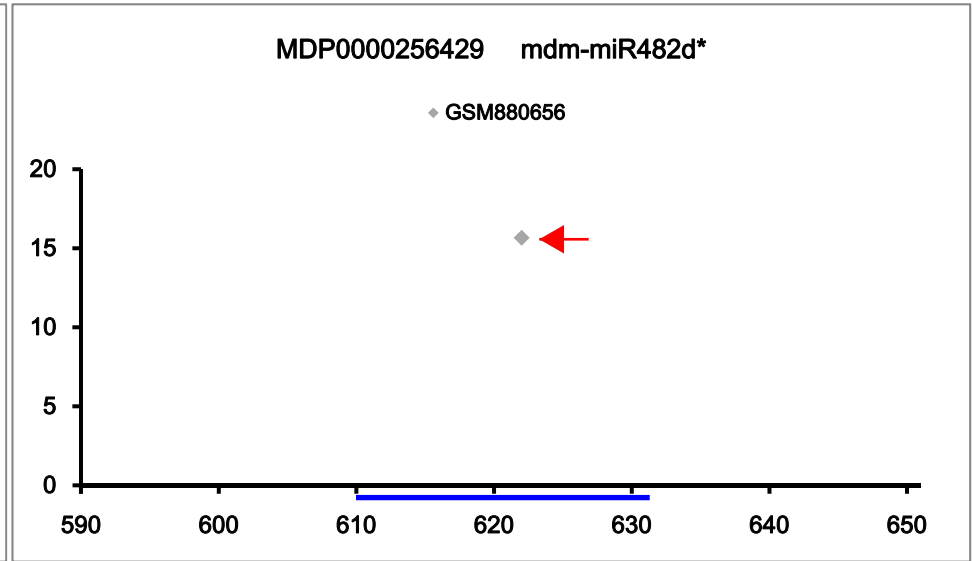
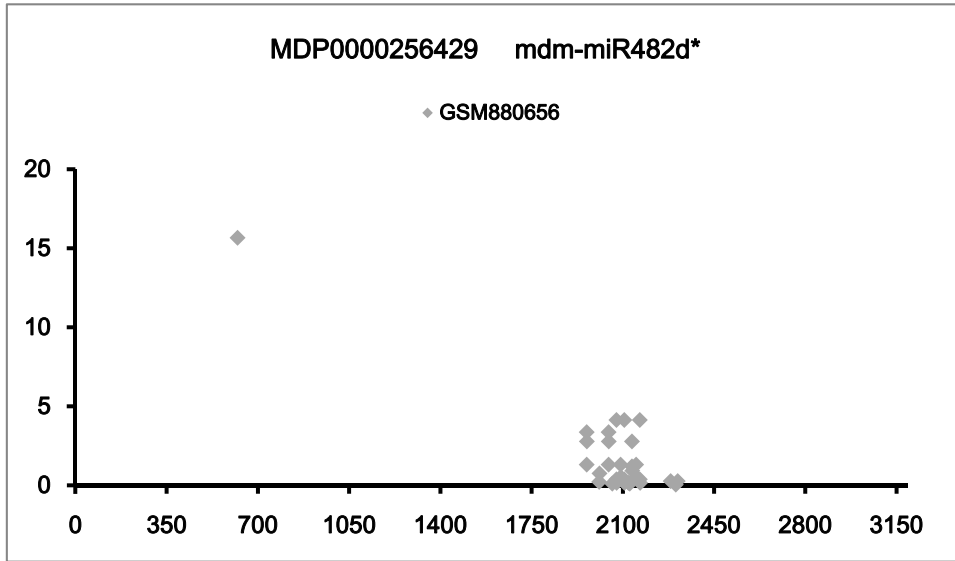


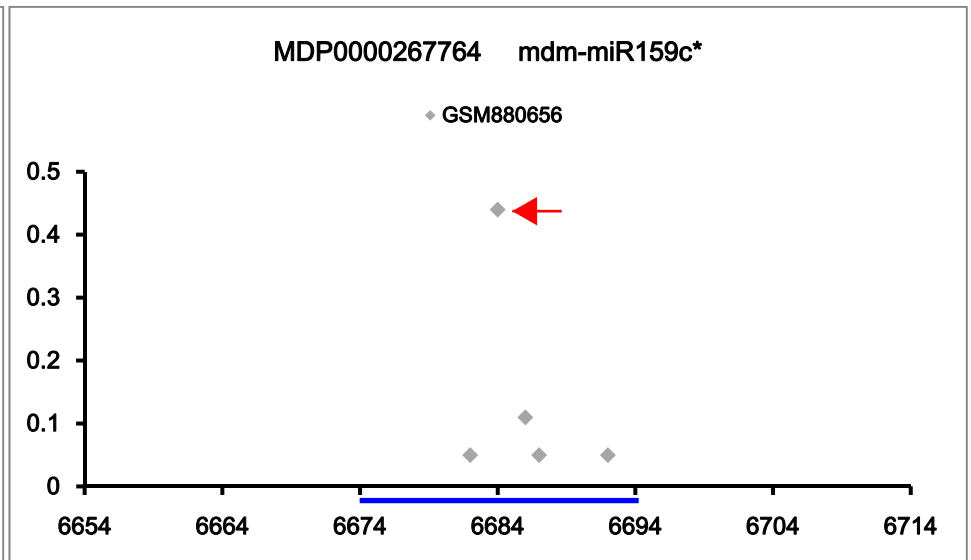
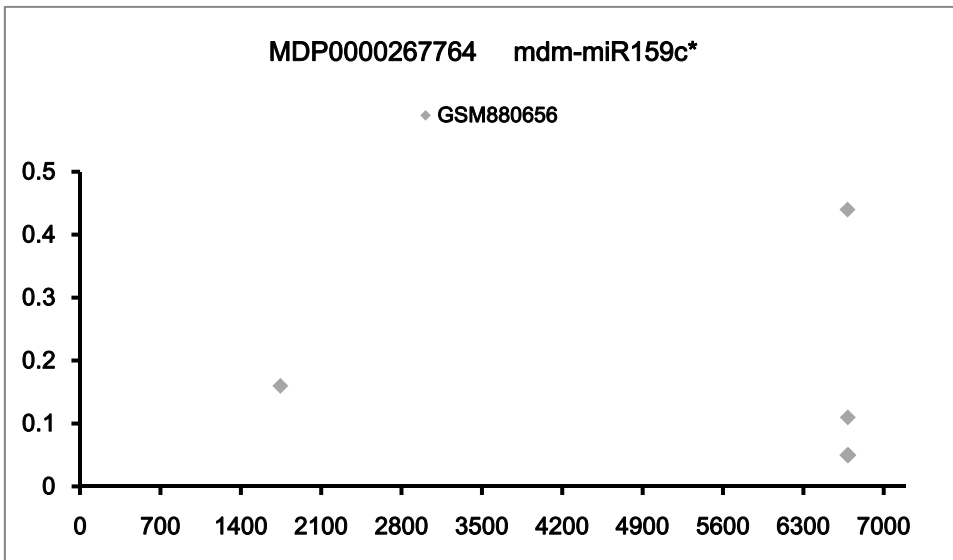
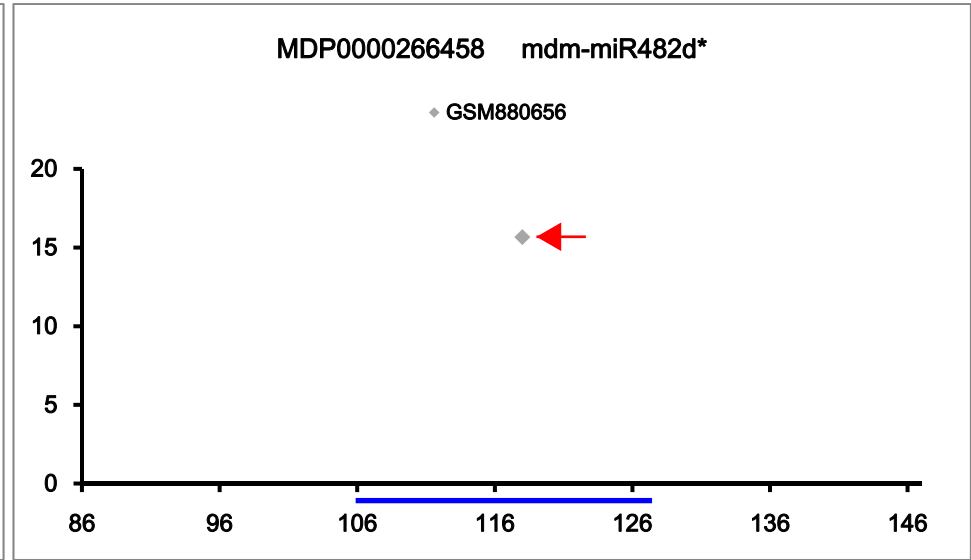
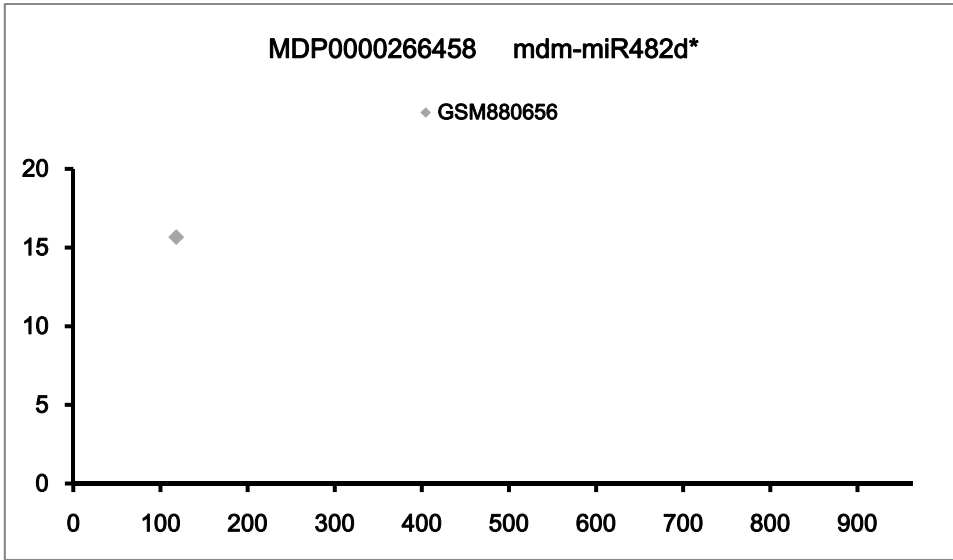


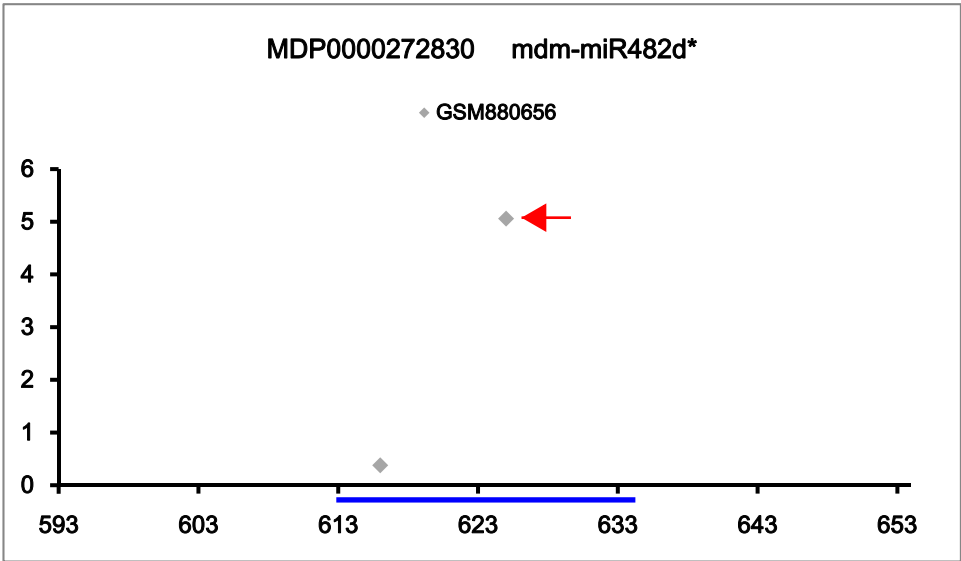
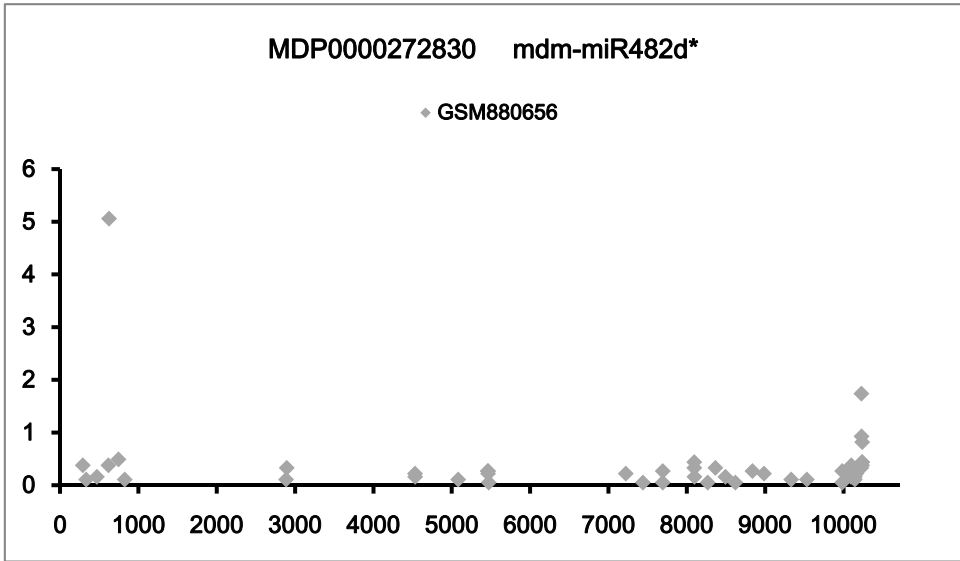
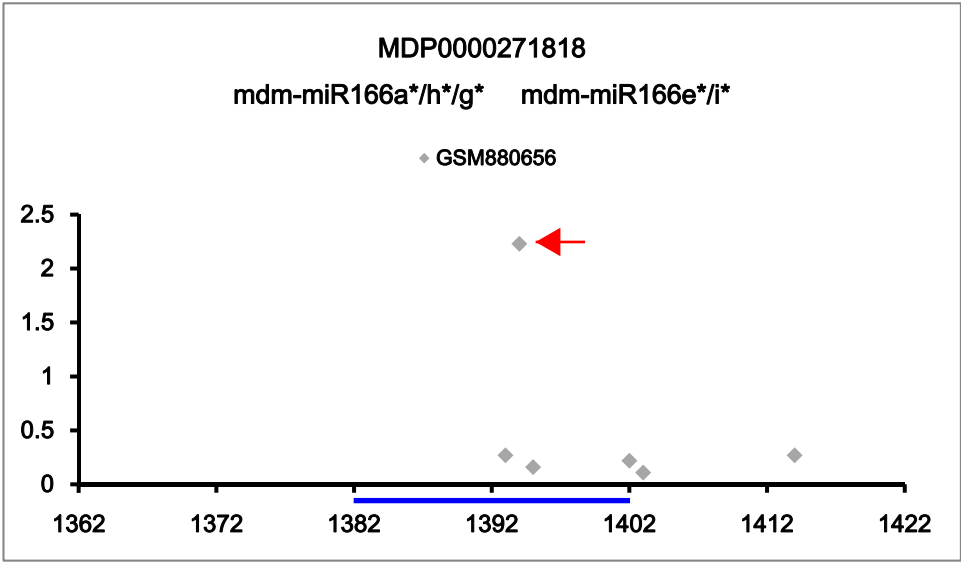
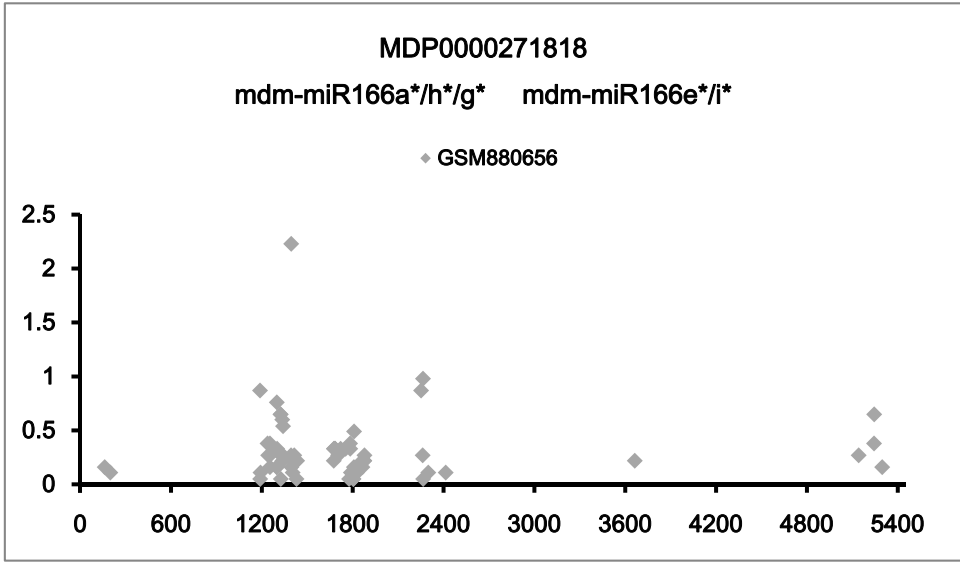


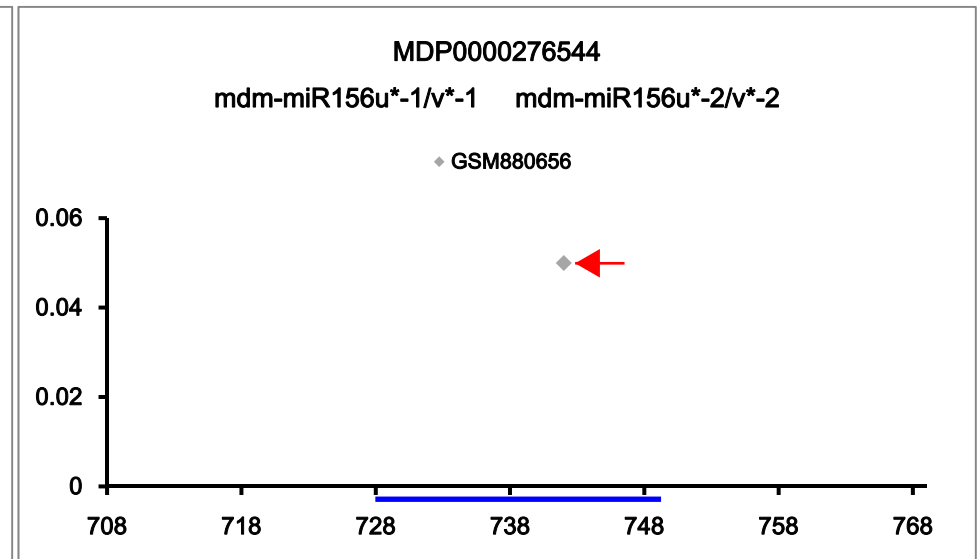
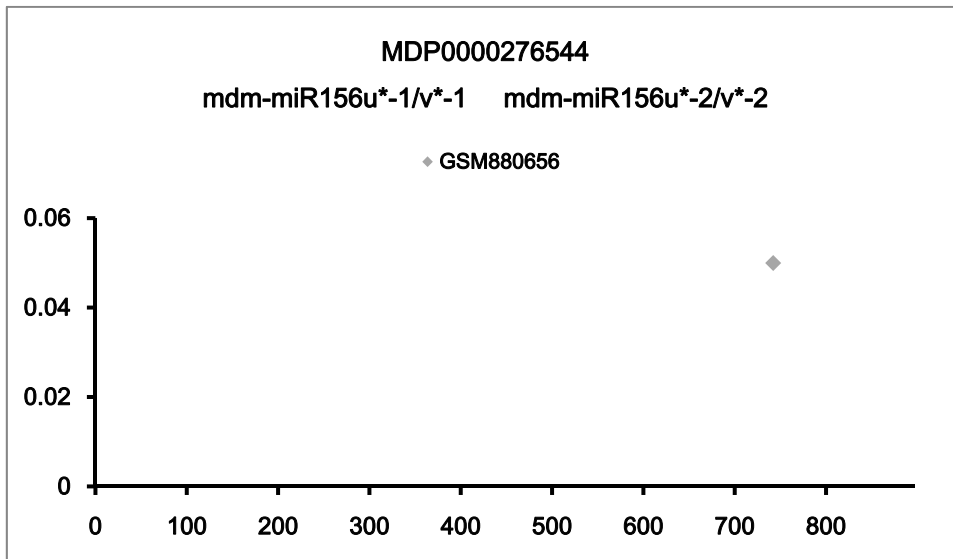
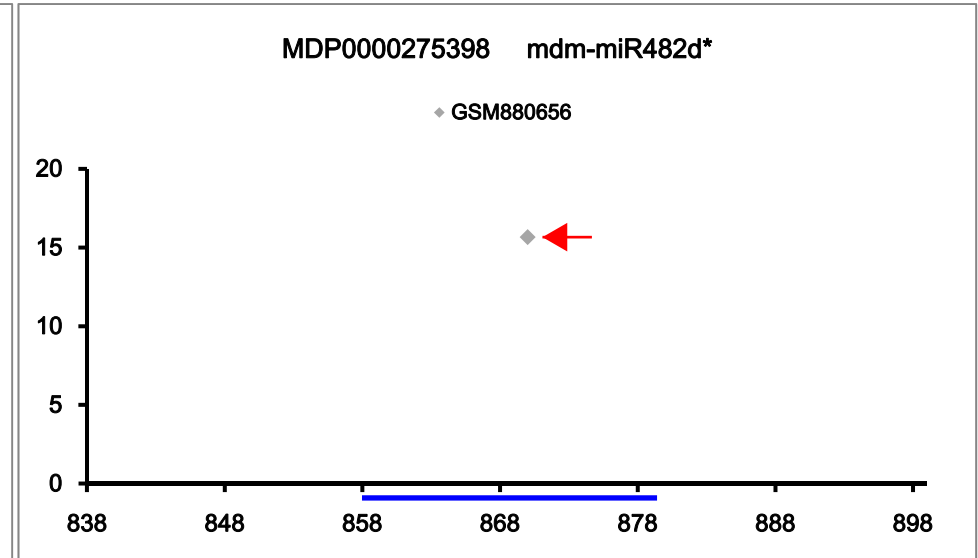
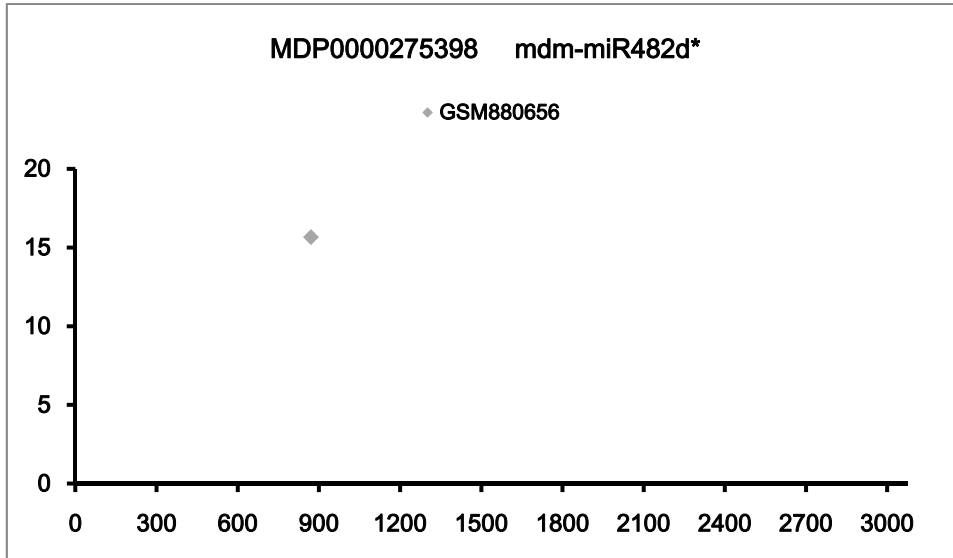


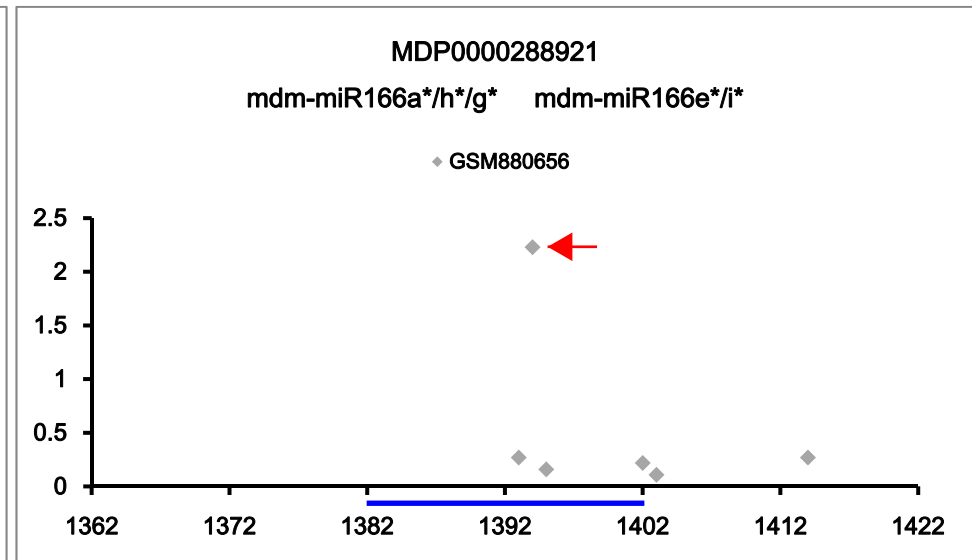
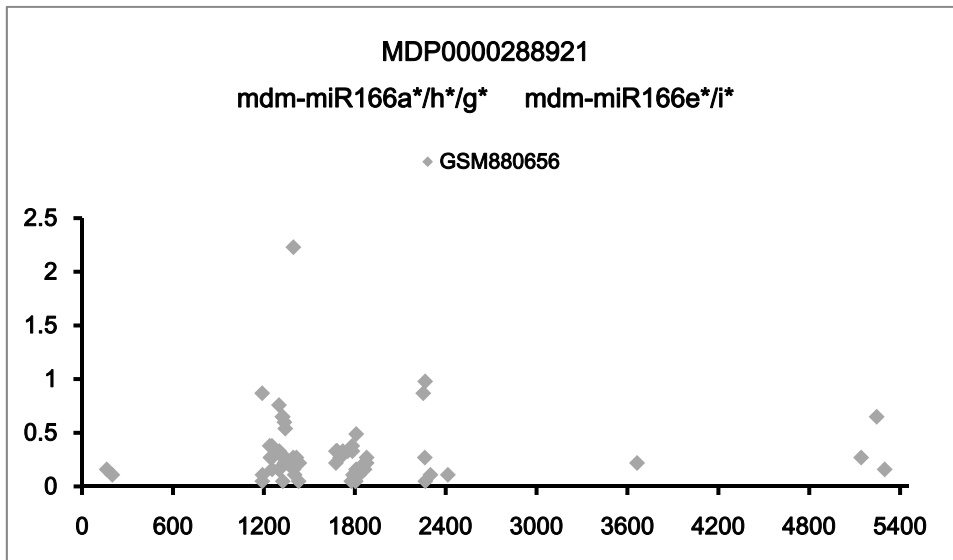
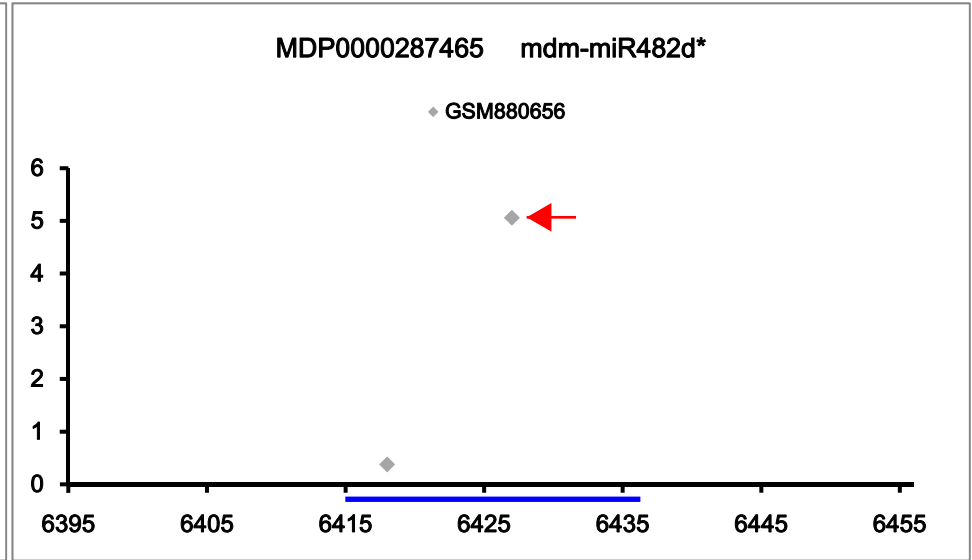
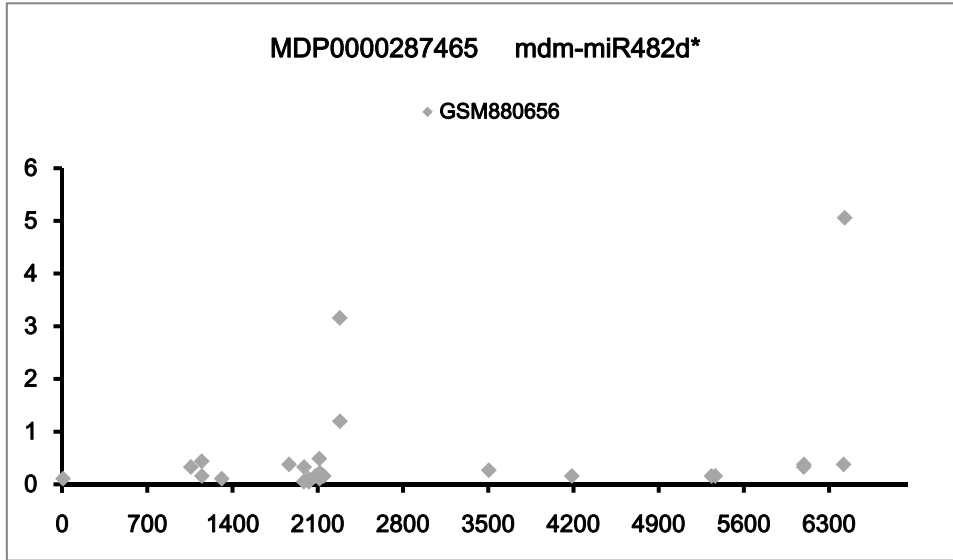


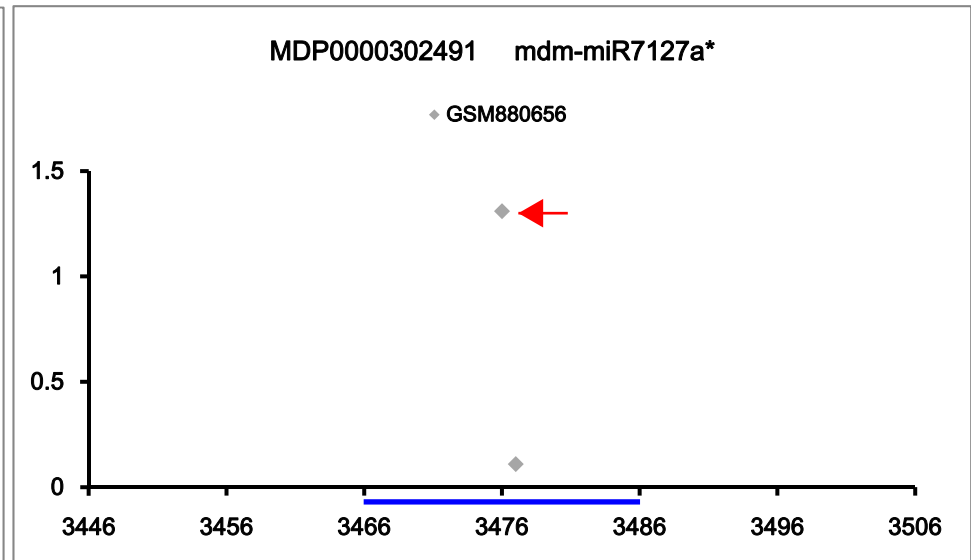
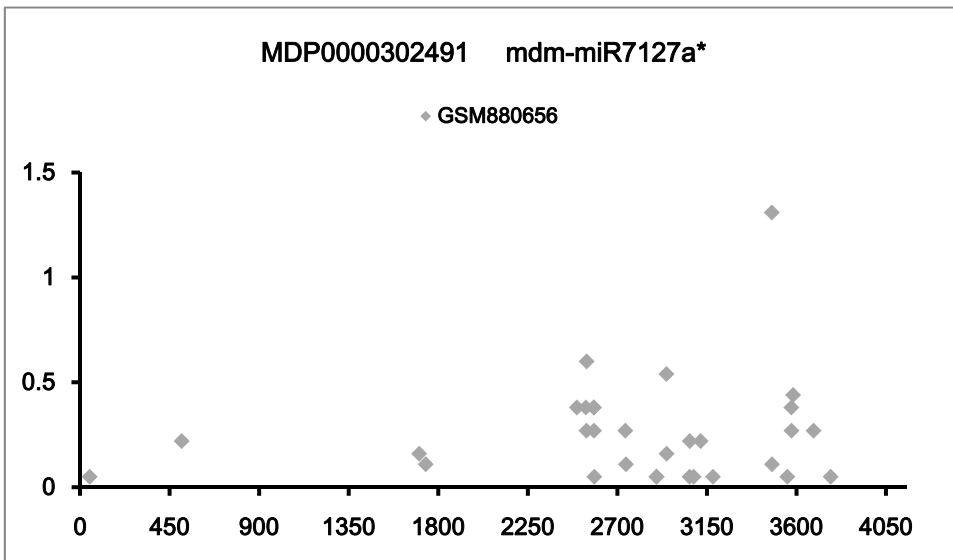
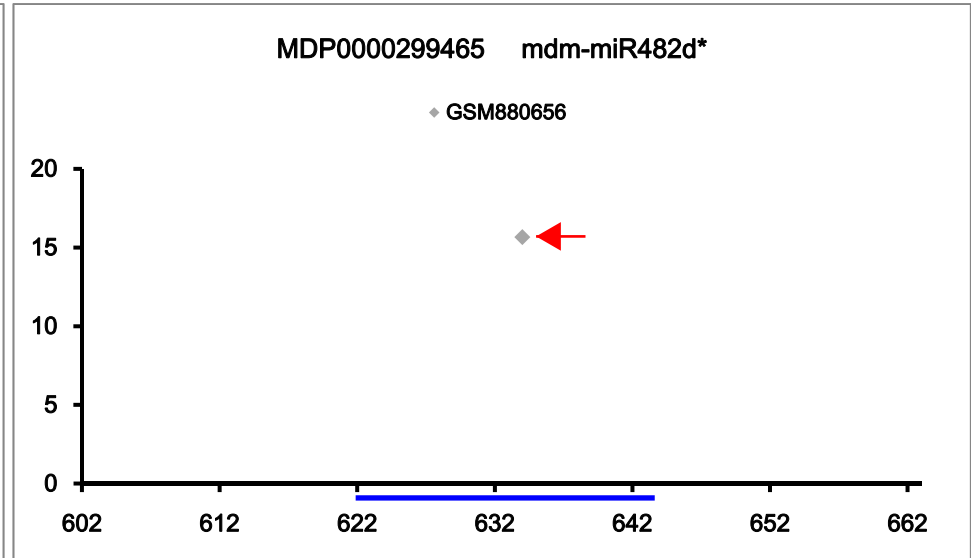
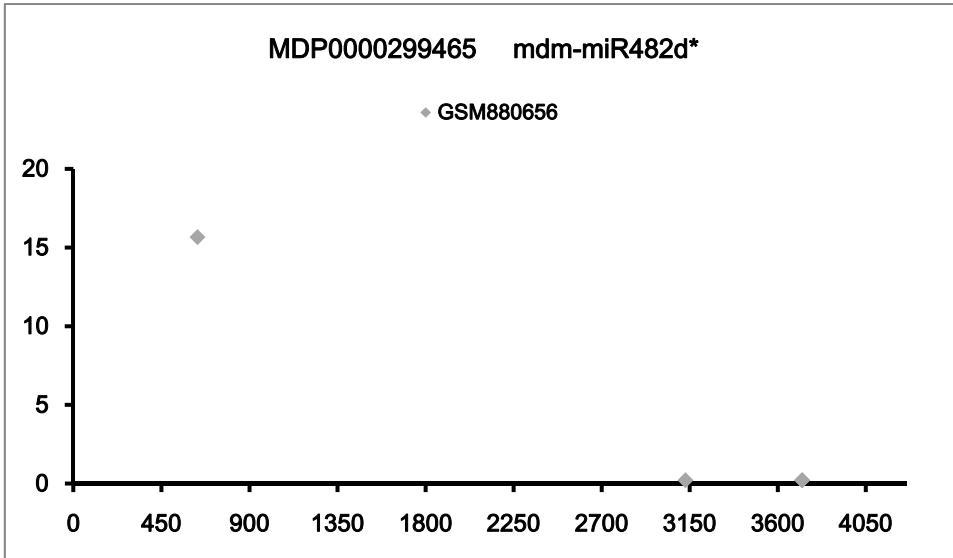


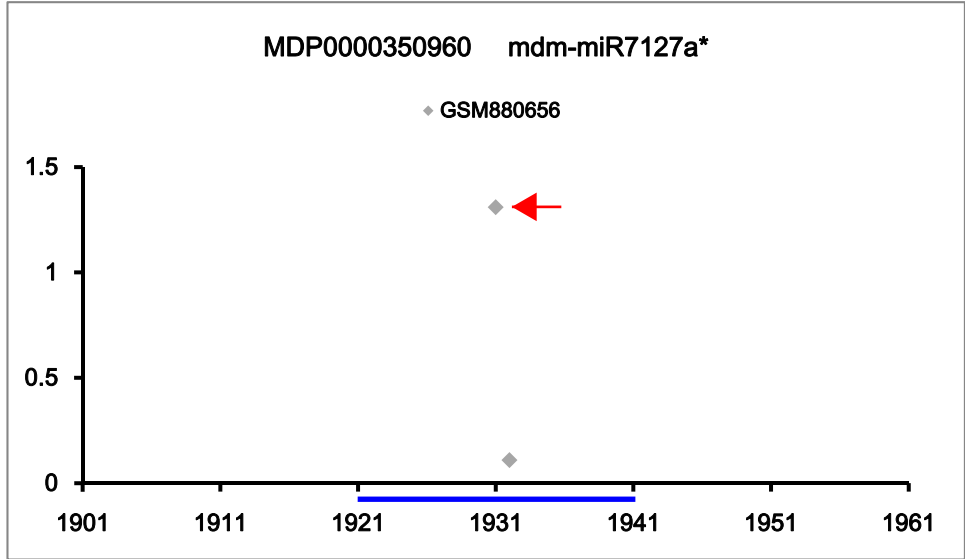
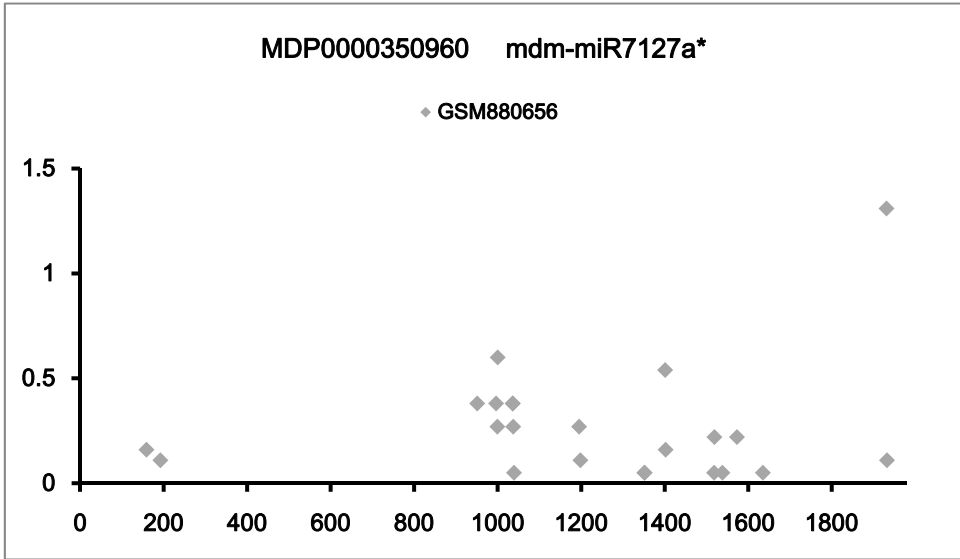
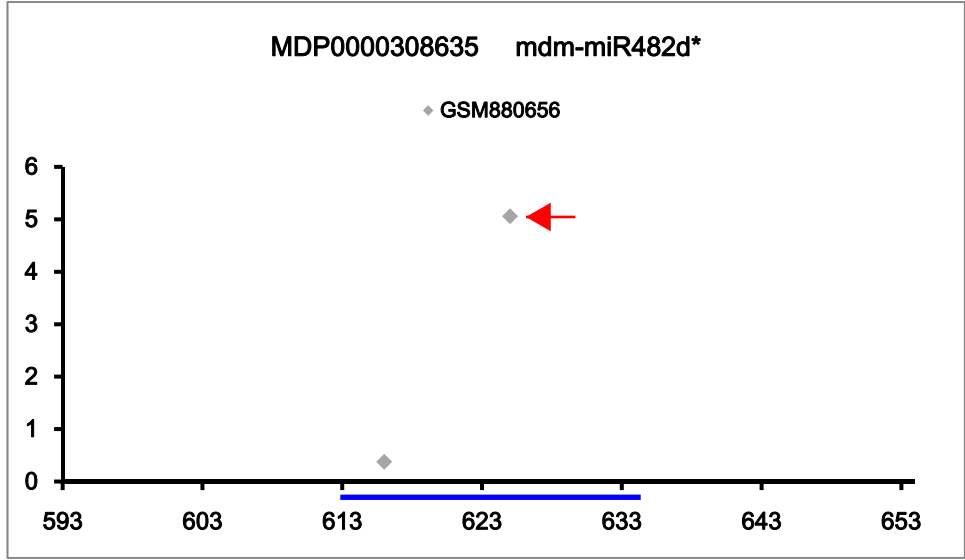
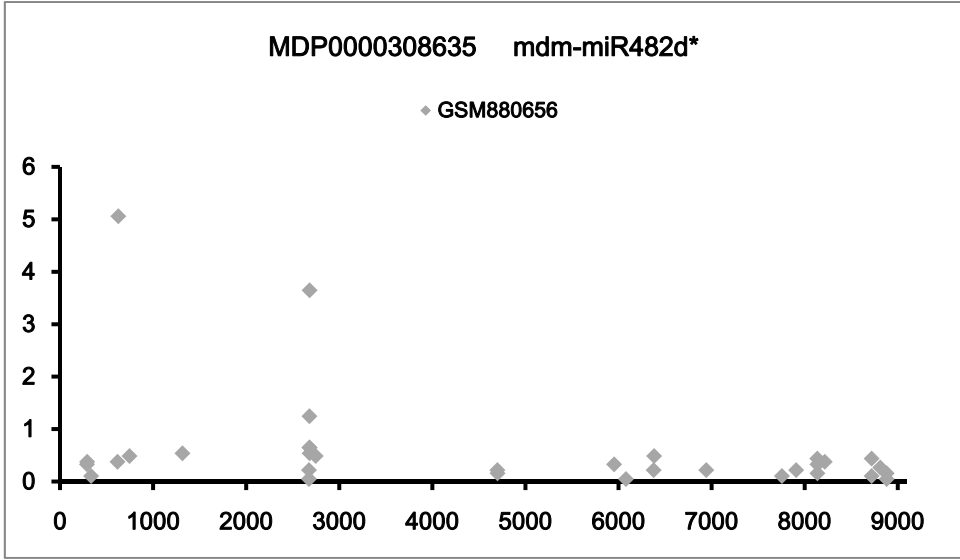


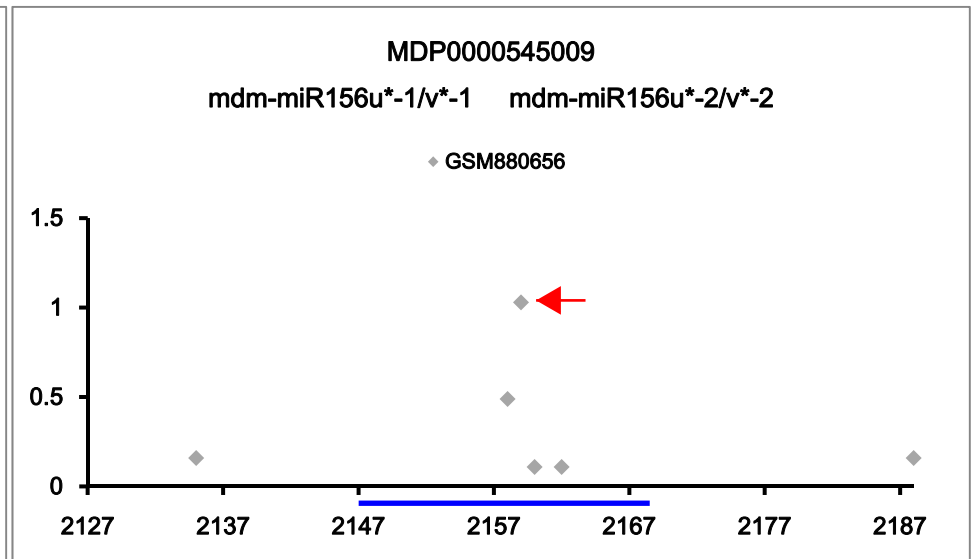
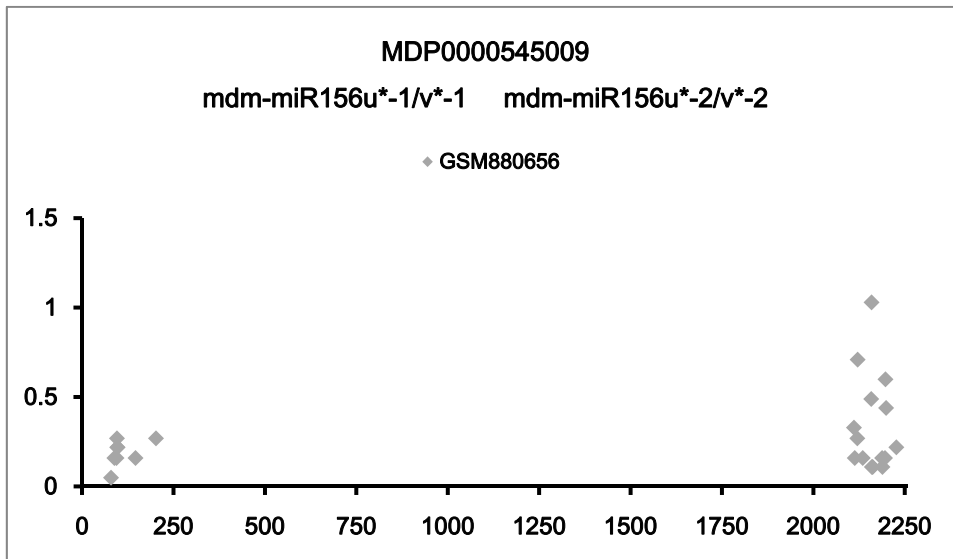
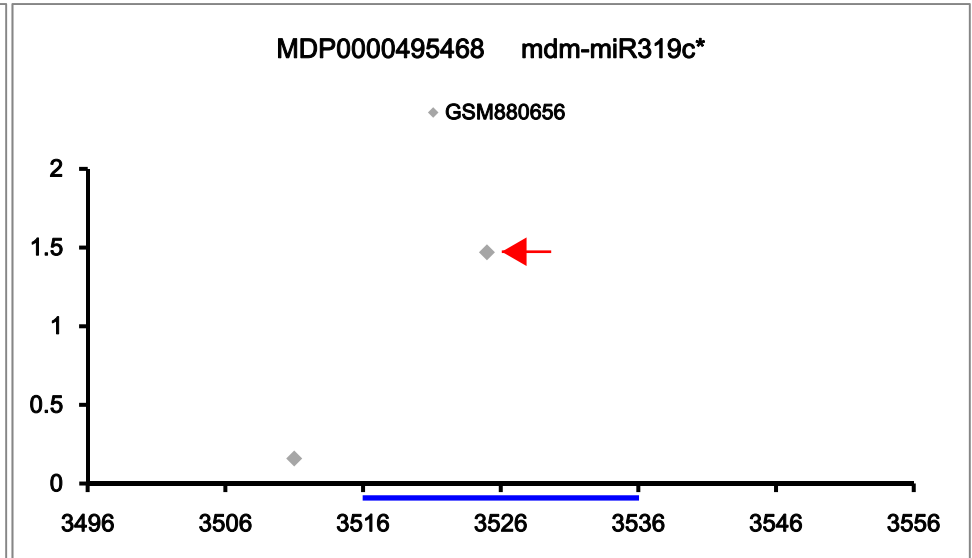
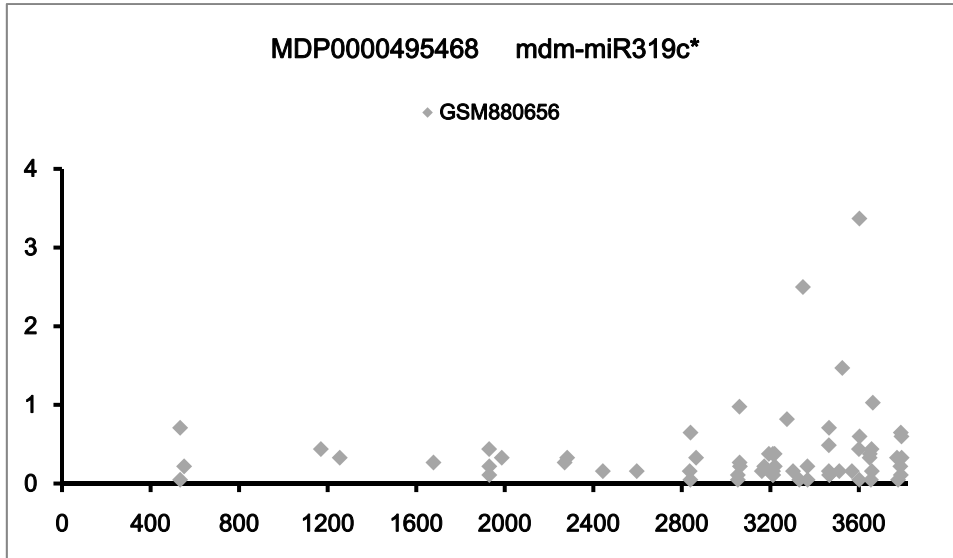












Data S1 Abundance-based identification of the microRNA*s in apple. The short reads that could be perfectly mapped onto specific pre-miRNAs (precursor microRNAs) along with their abundances in four small RNA high-throughput sequencing data sets (GSM880654, GSM880652, GSM880653 and GSM880655) are shown. Based on abundances and secondary structures (refer to **Figure S1**), the microRNA*s were identified. The miRBase-registered mature microRNA sequences were marked by horizontal lines under the pre-miRNA sequences.

>mdm-miR1511 MI0023292

	GSM880654_apple_flower	GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880653_apple_root	Total
GTGGGTCTAGTTCATCCATT	0	0	0	0	0
GTGGGTCTAGTTCATCCCA	0.18	0	0	0	0.18
ATTGGGTATCAGGACTATGT	0	0.22	0	0	0.22
ATTGGGTATCAGGACTATGTTA	0	0	0.04	0	0.04
TGTGGTATCAGGACTAT	0	0.22	0.04	0.05	0.31
TGTGGTATCAGGACTATGTT	0.37	2.05	1.21	0.49	4.12
TGTGGTATCAGGACTATGTTA	2.39	12.6	6.57	3.06	24.62
TGTGGTATCAGGACTATGTTAT	0	0	0.13	0.05	0.18
TGTGGTATCAGGACTATGT	0	0	0.04	0	0.04
TGTGGTATCAGGACTATG	0	0	0.04	0	0.04
TGTGGTATCAGGACT	0.18	0	0	0	0.18
TGTGGTATCAGGACTATGTT	0	0	0	0.1	0.1
TGTGGTATCAGGACTATGTTAT	0	0.86	1.8	0.58	3.34
TGTGGTATCAGGACTATGTTA	0.18	1.29	0.04	0.1	1.61
TGGTATCAGGACTATGTTATGT	0	0	0.04	0.1	0.14
TGGTATCAGGACTATGTTATG	5.88	4.09	9.84	4.42	24.23
TGGTATCAGGACTATGTTAT	0.18	0.75	0.17	0.15	1.25
TGGTATCAGGACTAT	0.37	3.77	0	0	4.14
TGGTATCAGGACTATGTT	0	0	0	0.05	0.05
TGGTATCAGGACTATGT	0	0	0.08	0	0.08
TGGTATCAGGACTATG	0	0	0.04	0	0.04
TGGTATCAGGACTATGTTA	0	0	0.08	0	0.08
GGTATCAGGACTATGTTA	0	0.11	0	0	0.11
GGTATCAGGACTATGTTATG	0.37	0	0.04	0	0.41
CAGGACTATGTTATGTTGA	0	0.22	0	0	0.22
ACTATGTTATGTTGAATGTTGT	0	0.22	0	0	0.22
CAATATTGTTACTCATCTGT	0	0.11	0	0	0.11
AAATATTGTTACTCATCTGTAT	0	0	0.04	0	0.04
ATATTGTTACTCATCTGTATAA	0	0.22	0	0	0.22
TATTGTTACTCATCTGTATAA	0	0.11	0	0	0.11
GTATAACCTAGCTCTGATACCATG	0	0.22	0	0	0.22
TATAACCTAGCTCTGATACCA	0.55	0	0	0	0.55
ATAACCTAGCTCTGATACCAGAA	0	0.11	0.04	0.05	0.2
ATAACCTAGCTCTGATACC	0.18	0	0	0	0.18
ATAACCTAGCTCTGATACCATG	0.18	0	0.04	0	0.22
TAACTAGCTCTGATACCAT	7.35	0.43	7.35	0.17	7.95
TAACTAGCTCTGATACCA	2.39	0.22	0.29	0.05	2.95
TAACTAGCTCTGATA	2.21	0.54	0	0	2.75
TAACTAGCTCTGATACC	55.32	5.39	0.04	0.1	60.85
TAACTAGCTCTGATACCATGA	0.92	0	0.42	0.1	1.44
TAACTAGCTCTGATACC	1.65	0.75	0.04	0	2.44
TAACTAGCTCTGAT	4.96	0.75	0	0	5.71
TAACTAGCTCTGATACCATG	634.21	176.11	27.25	9.38	846.95
AACCTAGCTCTGATACCATG	14.33	2.91	0.17	0	17.41
AACCTAGCTCTGATACCA	5.7	0.43	0	0	6.13
AACCTAGCTCTGATACCATGAACA	0	0.11	0.08	0.05	0.24
AACCTAGCTCTGATACCAT	0.74	0.32	0	0	1.06
AACCTAGCTCTGATACC	5.33	0.22	0.04	0	5.59
AACCTAGCTCTGATACCATGAAC	1.47	0	0	0	1.47
AACCTAGCTCTGATACCATGA	3.31	2.37	1.88	0.49	8.05
AACCTAGCTCTGATACCATGA	175.51	45.13	5.19	2.67	228.5
AACCTAGCTCTGATA	0.18	0	0	0	0.18
AACCTAGCTCTGATACC	0.55	0	0	0	0.55
ACCTAGCTCTGATACC	20.77	2.37	0	0	23.14
ACCTAGCTCTGATACCAT	34.37	4.2	0.04	0.1	38.71
ACCTAGCTCTGATACCATGAAC	2.57	1.18	0.21	0.19	4.15
ACCTAGCTCTGATACCATGAA	3976.18	1377.22	716.67	205.01	6275.08
ACCTAGCTCTGATACCATGA	474.69	58.27	6.74	1.36	541.06
ACCTAGCTCTGATACCATG	5.92	0.08	0.05	0.05	6.15
ACCTAGCTCTGATACC	301.76	28.33	0	0	330.09
ACCTAGCTCTGATACCA	256.18	16.8	1.42	0.24	274.64
ACCTAGCTCTGATACCATGAACAA	0.18	0	0.04	0	0.22
ACCTAGCTCTGATACCATGAACA	2.57	0.22	0.04	0.15	2.98
ACCTAGCTCTGATACCATGAACAAA	0	0	0.04	0	0.04
CCTAGCTCTGATACCATGAA	22.79	3.12	1.25	0.63	27.8
CCTAGCTCTGATACCATGA	2.76	1.08	0.04	0	3.88
CCTAGCTCTGATACCATGAAC	17.64	0.32	0.08	0	18.04
CCTAGCTCTGATACCAT	1.1	0.11	0	0	1.21
CCTAGCTCTGATACC	6.62	0.43	0	0	7.05
CCTAGCTCTGATACCATGAACAA	1.47	0	0	0	1.47
CCTAGCTCTGATACCA	5.33	0.54	0	0	5.87
CCTAGCTCTGATACCATG	1.29	0.32	0	0	1.61
CCTAGCTCTGATACCATGAACA	5.51	0.32	0	0	5.83
CCTAGCTCTGATACCATGAACAAA	0.55	0	0	0	0.55
CTAGCTCTGATACCAT	2.02	0.65	0	0	2.67
CTAGCTCTGATACCATG	2.21	0.97	0	0	3.18
CTAGCTCTGATACCA	10.29	2.15	0	0	12.44
CTAGCTCTGATACCATGA	4.96	0.86	0.04	0	5.86
CTAGCTCTGATACCATGAA	31.24	7.43	0.21	0.19	39.07
CTAGCTCTGATACCATGAACA	0.74	0	0	0	0.74
TAGCTCTGATACCAT	2.39	0.11	0	0	2.5
TAGCTCTGATACCATGA	10.48	0.97	0	0	11.45
TAGCTCTGATACCATG	3.31	0.32	0	0	3.63
TAGCTCTGATACCATGAACAAA	0.18	0	0.04	0	0.22
TAGCTCTGATACCATGAACAAA	0	0.22	0.08	0.05	0.35
TAGCTCTGATACCATGAA	82.88	9.16	0.92	0.24	93.2
TAGCTCTGATACCATGAACA	0	0	0	0	0
TAGCTCTGATACCATGAAC	0.92	0	0	0	0.92
AGCTCTGATACCATGA	9.37	1.08	0	0	10.45
AGCTCTGATACCATGAA	36.39	3.77	0.96	0.19	41.31
AGCTCTGATACCATG	2.02	0.75	0	0	2.77
GCTCTGATACCATGA	1.47	0.11	0	0	1.58
GCTCTGATACCATGAA	3.86	0.97	0.21	0.05	5.09
CTCTGATACCATGAA	2.02	0.11	0	0	2.13
CTCTGATACCATGAACAAAATT	0	0	0	0	0
CTCTGATACCATGAAC	0.18	0	0	0	0.18
ATACCATGAACAAAATTAAATCTA	0	0	0.04	0	0.04
ATGAACAAAATTAAATCTACGACC	0.37	0	0	0	0.37
TAAATCTACGACCCA	0.55	0	0	0	0.55

mdm-miR1511

mdm-miR1511*: TGTGGTATCAGGACTATGTTA

>mdm-miR156c MI0022973

	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	Total
GTTGACAGAAGAGAGTGAGCAC	0.37	0.21	0	0	0.58
TTGACAGAAGAGAGTGA	0.37	0	0	0.05	0.42
TTGACAGAAGAGAGTGAGC	0.37	0.5	0.22	2.82	3.91
TTGACAGAAGAGAGTGAGCACACA	0	0.04	0	1.51	1.55
TTGACAGAAGAGAGTGAGCAC	90.6	249.4	21.97	3126.69	3488.66
TTGACAGAAGAGAGTGAGCA	4.23	0.67	0.54	7.87	13.31
TTGACAGAAGAGAGTGAG	6.98	0	1.08	0	8.06
TGACAGAAGAGAGTGAGC	2.57	0.63	0.11	82.53	85.84
TGACAGAAGAGAGTGAGCACACA	18.01	6.53	1.08	1680.8	1706.42
TGACAGAAGAGAGTGAGCAC	306.54	715.83	25.85	82324.33	83372.55
TGACAGAAGAGAGTG	0.74	0	0.11	0.15	1
TGACAGAAGAGAGTGAGCACACA	0	0	0	0.68	0.68
TGACAGAAGAGAGTGAGCA	16.36	2.6	1.83	273.79	294.58
TGACAGAAGAGAGTGAG	13.97	0	0.75	0.68	15.4
TGACAGAAGAGAGTGA	1.29	0	0	0.97	2.26
GACAGAAGAGAGTGAGCA	0.18	0	0.11	0.24	0.53
GACAGAAGAGAGTGAGCACACA	0.37	0	0.65	1.7	2.72
GACAGAAGAGAGTGAGCAC	5.88	0.67	0.32	56.04	62.91
GACAGAAGAGAGTGAG	0.18	0	0	0	0.18
GACAGAAGAGAGTGAGC	0	0	0	0.05	0.05
ACAGAAGAGAGTGAGCACACA	2.76	0.13	0	1.31	4.2
ACAGAAGAGAGTGAGCAC	0.37	0.25	0	20.37	20.99
ACAGAAGAGAGTGAGCACACA	2.39	0.04	0	1.22	3.65
ACAGAAGAGAGTGAG	0.37	0	0.11	0	0.48
ACAGAAGAGAGTGAGC	0	0	0	0.05	0.05
CAGAAGAGAGTGAGCACACA	0	0.04	0.11	0.24	0.39
CAGAAGAGAGTGAGCACACA	0	0	0	0.44	0.44
CAGAAGAGAGTGAGCAC	0.18	0.46	0.43	14.92	15.99
CAGAAGAGAGTGAGCACACA	0.18	0	0	0	0.18
CAGAAGAGAGTGAGCA	0	0	0	0.05	0.05
AGAAGAGAGTGAGCACACACAGGC	0.18	0	0	0	0.18
AGAAGAGAGTGAGCAC	0.92	0.59	0	70.38	71.89
AGAAGAGAGTGAGCA	0	0	0	0.15	0.15
AGAAGAGAGTGAGCACACA	0	0	0	0.92	0.92
GAAGAGAGTGAGCAC	0.55	0.33	0.11	18.23	19.22
GAAGAGAGTGAGCACACA	0	0	0	0.53	0.53
AAGAGAGTGAGCACACA	0	0	0	0.05	0.05
CGTGTCACTCTCTCTCTGTC	0.18	0	0	0	0.18
TGCTCACCTCTCTCTCTGTCAG	0.18	0	0	0	0.18
TGCTCACCTCTCTCTCTGTCAGC	1.29	0	0	0	1.29
TGCTCACCTCTCTCTCTGTC	0.55	0	0	0	0.55
GCTCACCTCTCTCTCTGTCAGC	6.25	0.13	2.69	0	9.07
GCTCACCTCTCTCTCTG	0	0	0.11	0	0.11
GCTCACCTCTCTCTCT	0.37	0	0.11	0	0.48
GCTCACCTCTCTCTCTGTCAGCTG	0.37	0	0	0	0.37
GCTCACCTCTCTCTCTGTC	0.74	0	0	0	0.74
GCTCACCTCTCTCTCTGTCAG	0.55	0	0.22	0	0.77
GCTCACCTCTCTCTCTGTCAGCT	0.92	0	0.22	0	1.14
TGACCTCTCTCTCTGTCAGCTGC	0.37	0	0	0	0.37
CCTCTCTCTCTCTGTCAGCT	0	0	0.11	0	0.11
GTAGTTGACAGAAGAGAGTGAGCACACACAGGCAGCAATTGTATAAAATCATACCTTGGGCGGTGCGTGCACCTCTCTCTCTCTGTCAGCTGC					

mdm-miR156c

mdm-miR156c*: GCTCACCTCTCTCTCTGTCAGC

>mdm-MIR156d MI0022974

	GSM880653_apple_root	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880655_apple_fruit	Total
GTGGTGACAGAAGAGACTGAGC	0.05	0	0	0	0.05
TGGTGACAGAAGAGACTGAGC	0.97	0	0	0	0.97
TGGTGACAGAAGAGACTGAG	0.1	0	0	0	0.1
GGTGACAGAAGAGACTGAGCAC	0.19	0	0	0	0.19
GTGACAGAAGAGACTGAGCA	0.15	0	0	0	0.15
GTGACAGAAGAGACTGAGCAC	8.02	0.37	0	0	8.39
TGACAGAAGAGACTGAGCACACT	0.1	0	0	0	0.1
TGACAGAAGAGACTGAGCAC	82324.33	306.54	715.83	25.85	83372.55
TGACAGAAGAGACTGAGCACAC	0.68	0	0	0	0.68
TGACAGAAGAGACTGAG	0.68	13.97	0	0.75	15.4
TGACAGAAGAGACTG	0.15	0.74	0	0.11	1
TGACAGAAGAGACTGAGCA	273.79	16.36	2.6	1.83	294.58
TGACAGAAGAGACTGAGCACA	1680.8	18.01	6.53	1.08	1706.42
TGACAGAAGAGACTGAGC	82.53	2.57	0.63	0.11	85.84
TGACAGAAGAGACTGA	0.97	1.29	0	0	2.26
GACAGAAGAGACTGAGCA	0.24	0.18	0	0.11	0.53
GACAGAAGAGACTGAGCAC	56.04	5.88	0.67	0.32	62.91
GACAGAAGAGACTGAGC	0.05	0	0	0	0.05
GACAGAAGAGACTGAGCACA	1.7	0.37	0	0.65	2.72
GACAGAAGAGACTGAG	0	0.18	0	0	0.18
ACAGAAGAGACTGAG	0	0.37	0	0.11	0.48
ACAGAAGAGACTGAGCACAC	1.22	2.39	0.04	0	3.65
ACAGAAGAGACTGAGCAC	20.37	0.37	0.25	0	20.99
ACAGAAGAGACTGAGCACA	1.31	2.76	0.13	0	4.2
ACAGAAGAGACTGAGC	0.05	0	0	0	0.05
CAGAAGAGACTGAGCACA	0.24	0	0.04	0.11	0.39
CAGAAGAGACTGAGCAC	14.92	0.18	0.46	0.43	15.99
CAGAAGAGACTGAGCA	0.05	0	0	0	0.05
AGAAGAGACTGAGCAC	70.38	0.92	0.59	0	71.89
AGAAGAGACTGAGCA	0.15	0	0	0	0.15
AGAAGAGACTGAGCACA	0.92	0	0	0	0.92
GAAGAGACTGAGCAC	18.23	0.55	0.33	0.11	19.22
GAAGAGACTGAGCACA	0.53	0	0	0	0.53
AAGAGACTGAGCACA	0.05	0	0	0	0.05
	0.05	0	0	0	0.05
	0.05	0	0	0	0.05
	0.24	0	0	0	0.24
	0.05	0	0	0	0.05
TGGACTAGTAGCGAGTGGTGGTGACAGAAGAGACTGAGCACACTCGGGCAATTGTATAAAGCCATACCTTTGCGTGATGTGTGCTCACTTCTCTTTCTGTCAGCCGACGCCGCCYCCGCCCA					

mdm-miR156d

mdm-miR156d*: GCTCACTTCTCTTTCTGTCAGC

>mdm-miR156e MI0022975

	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	Total
GTTGACAGAAGAGAGTGGACAC	0.37	0.21	0	0	0.58
TTGACAGAAGAGAGTGA	0.37	0	0.05	0	0.42
TTGACAGAAGAGAGTGGACACA	0	0.04	1.51	0	1.55
TTGACAGAAGAGAGTGGACAC	90.6	249.4	3126.69	21.97	3488.66
TTGACAGAAGAGAGTGGACAC	4.23	0.67	7.87	0.54	13.31
TTGACAGAAGAGAGTGGAC	0.37	0.5	2.82	0.22	3.91
TTGACAGAAGAGAGTGGAG	6.98	0	0	1.08	8.06
TGACAGAAGAGAGTGA	1.29	0	0.97	0	2.26
TGACAGAAGAGAGTGGAGC	2.57	0.63	82.53	0.11	85.84
TGACAGAAGAGAGTGGACAC	306.54	715.83	82324.33	25.85	83372.55
TGACAGAAGAGAGTGG	0.74	0	0.15	0.11	1
TGACAGAAGAGAGTGGAG	13.97	0	0.68	0.75	15.4
TGACAGAAGAGAGTGGACAC	16.36	2.6	273.79	1.83	294.58
TGACAGAAGAGAGTGGACACAC	0	0	0.68	0	0.68
TGACAGAAGAGAGTGGACACA	18.01	6.53	1580.8	1.08	1706.42
GACAGAAGAGAGTGGACAC	5.88	0.67	56.04	0.32	62.91
GACAGAAGAGAGTGGACAC	0.18	0	0.24	0.11	0.53
GACAGAAGAGAGTGGAG	0.18	0	0	0	0.18
GACAGAAGAGAGTGGACACA	0.37	0	1.7	0.65	2.72
GACAGAAGAGAGTGGAC	0	0	0.05	0	0.05
ACAGAAGAGAGTGGACAC	0.37	0.25	20.37	0	20.99
ACAGAAGAGAGTGGAG	0.37	0	0	0.11	0.48
ACAGAAGAGAGTGGACACA	2.76	0.13	1.31	0	4.2
ACAGAAGAGAGTGGACACAC	2.39	0.04	1.22	0	3.65
ACAGAAGAGAGTGGAGC	0	0	0.05	0	0.05
CAGAAGAGAGTGGACAC	0.18	0.46	14.92	0.43	15.99
CAGAAGAGAGTGGACACA	0	0.04	0.24	0.11	0.39
CAGAAGAGAGTGGACAC	0	0	0.05	0	0.05
CAGAAGAGAGTGGACACACAC	0.18	0	0	0	0.18
CAGAAGAGAGTGGACACACA	0	0	0.44	0	0.44
AGAAGAGAGTGGACAC	0.92	0.59	70.38	0	71.89
AGAAGAGAGTGGACACACACAGGC	0.18	0	0	0	0.18
AGAAGAGAGTGGACACA	0	0	0.92	0	0.92
AGAAGAGAGTGGACAC	0	0	0.15	0	0.15
GAAGAGAGTGGACAC	0.55	0.33	18.23	0.11	19.22
GAAGAGAGTGGACACA	0	0	0.53	0	0.53
AAGAGAGTGGACACA	0	0	0.05	0	0.05
	0.18	0	0	0.11	0.29
	0	0	0	0.22	0.22
	0	0	0	0.22	0.22

AGTTGACAGAAGAGAGTGGACACACACAGGCGCAATTGTATAAAAATCATACCTTTGGGCGGTGCGTGCTCAGTTCTCTCTCCGTCAGCT

mdm-miR156e

mdm-miR156e*: GCTCAGTTCTCTCTCCGTCAGC

>mdm-miR156g MI0022977

	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
GGTGACAGAAGAGAGTGAGCAC	0.19	0	0	0	0.19
GTGACAGAAGAGAGTGAGCAC	8.02	0.37	0	0	8.39
GTGACAGAAGAGAGTGAGCA	0.15	0	0	0	0.15
TGACAGAAGAGAGTGAGCAC	82324.33	306.54	25.85	715.83	83372.55
TGACAGAAGAGAGTGAGC	82.53	2.57	0.11	0.63	85.84
TGACAGAAGAGAGTGAGCA	273.79	16.36	1.83	2.6	294.58
TGACAGAAGAGAGTGAGCAC	1680.8	18.01	1.08	6.53	1706.42
TGACAGAAGAGAGTGAG	0.68	13.97	0.75	0	15.4
TGACAGAAGAGAGTGGA	0.97	1.29	0	0	2.26
TGACAGAAGAGAGTGAGCAC	0.68	0	0	0	0.68
TGACAGAAGAGAGTG	0.15	0.74	0.11	0	1
GACAGAAGAGAGTGAGCAC	56.04	5.88	0.32	0.67	62.91
GACAGAAGAGAGTGAGCA	0.24	0.18	0.11	0	0.53
GACAGAAGAGAGTGAGCAC	1.7	0.37	0.65	0	2.72
GACAGAAGAGAGTGAG	0	0.18	0	0	0.18
GACAGAAGAGAGTGAGC	0.05	0	0	0	0.05
ACAGAAGAGAGTGAGCAC	20.37	0.37	0	0.25	20.99
ACAGAAGAGAGTGAGC	0.05	0	0	0	0.05
ACAGAAGAGAGTGAG	0	0.37	0.11	0	0.48
ACAGAAGAGAGTGAGCAC	1.31	2.76	0	0.13	4.2
ACAGAAGAGAGTGAGCAC	1.22	2.39	0	0.04	3.65
CAGAAGAGAGTGAGCACACAT	0.78	0	0	0	0.78
CAGAAGAGAGTGAGCAC	14.92	0.18	0.43	0.46	15.99
CAGAAGAGAGTGAGCAC	0.24	0	0.11	0.04	0.39
CAGAAGAGAGTGAGCACACA	0.44	0	0	0	0.44
CAGAAGAGAGTGAGCA	0.05	0	0	0	0.05
AGAAGAGAGTGAGCAC	70.38	0.92	0	0.59	71.89
AGAAGAGAGTGAGCACACATG	0.1	0	0	0	0.1
AGAAGAGAGTGAGCAC	0.92	0	0	0	0.92
AGAAGAGAGTGAGCACACAT	0.05	0	0	0	0.05
AGAAGAGAGTGAGCACACATGGT	0.19	0	0	0	0.19
AGAAGAGAGTGAGCACACATGGTA	0.05	0	0	0	0.05
AGAAGAGAGTGAGCACACATGG	0.05	0	0	0	0.05
AGAAGAGAGTGAGCA	0.15	0	0	0	0.15
GAAGAGAGTGAGCAC	0.53	0	0	0	0.53
GAAGAGAGTGAGCAC	18.23	0.55	0.11	0.33	19.22
AAGAGAGTGAGCAC	0.05	0	0	0	0.05
AGAGTGAGCACACATGGTATT	0.05	0	0	0	0.05
	TGCTTAATCTCTATCTG	0.1	0	0	0.1
	TGCTTAATCTCTATCTGCGC	2.09	0	0	2.09
	TGCTTAATCTCTATCTGCGC	0.05	0	0	0.05
	GCTTAATCTCTATCTGCGC	149.31	0	0	149.31
	GCTTAATCTCTATCTGCG	0.24	0	0	0.24
	GCTTAATCTCTATCTG	0.44	0	0	0.44
	GCTTAATCTCTATCTGTCGC	8.89	0	0	8.89
	GCTTAATCTCTATCTGTCGCC	1.65	0	0	1.65
	CTTAATCTCTATCTGTCGCC	0.05	0	0	0.05
	TTAATCTCTATCTGTCGCC	0.05	0	0	0.05
	AATCTCTATCTGTCGCC	0.05	0	0	0.05
GGCGGTGACAGAAGAGAGTGAGCACACATGGTATTTTTRTTGCATGCTGGGTTTCATGCTCGAAGCTTTGCGTGCCTTAATCTCTATCTGTCGCC	0.05	0	0	0	0.05

mdm-miR156g

mdm-miR156g*: GCTTAATCTCTATCTGTCGCC

>mdm-MIR156h MI0022978

	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	Total
GTTGACAGAAGAGACTGAGCAC	0.37	0.21	0	0	0.58
TTGACAGAAGAGAGTGA	0.37	0	0	0.05	0.42
TTGACAGAAGAGAGTGA	0.37	0.5	0.22	2.82	3.91
TTGACAGAAGAGAGTGA	0	0.04	0	1.51	1.55
TTGACAGAAGAGAGTGA	90.6	249.4	21.97	3126.69	3488.66
TTGACAGAAGAGAGTGA	4.23	0.67	0.54	7.87	13.31
TTGACAGAAGAGAGTGA	6.98	0	1.08	0	8.06
TGACAGAAGAGAGTGA	2.57	0.63	0.11	82.53	85.84
TGACAGAAGAGAGTGA	18.01	6.53	1.08	1680.8	1706.42
TGACAGAAGAGAGTGA	306.54	715.83	25.85	82324.33	83372.55
TGACAGAAGAGAGTGA	0.74	0	0.11	0.15	1
TGACAGAAGAGAGTGA	0	0	0	0.68	0.68
TGACAGAAGAGAGTGA	16.36	2.6	1.83	273.79	294.58
TGACAGAAGAGAGTGA	13.97	0	0.75	0.68	15.4
TGACAGAAGAGAGTGA	1.29	0	0	0.97	2.26
GACAGAAGAGAGTGA	0.18	0	0.11	0.24	0.53
GACAGAAGAGAGTGA	0.37	0	0.65	1.7	2.72
GACAGAAGAGAGTGA	5.88	0.67	0.32	56.04	62.91
GACAGAAGAGAGTGA	0.18	0	0	0	0.18
GACAGAAGAGAGTGA	0	0	0	0.05	0.05
ACAGAAGAGAGTGA	2.76	0.13	0	1.31	4.2
ACAGAAGAGAGTGA	0.37	0.25	0	20.37	20.99
ACAGAAGAGAGTGA	2.39	0.04	0	1.22	3.65
ACAGAAGAGAGTGA	0.37	0	0.11	0	0.48
ACAGAAGAGAGTGA	0	0	0	0.05	0.05
CAGAAGAGAGTGA	0	0.04	0.11	0.24	0.39
CAGAAGAGAGTGA	0	0	0	0.44	0.44
CAGAAGAGAGTGA	0.18	0.46	0.43	14.92	15.99
CAGAAGAGAGTGA	0.18	0	0	0	0.18
CAGAAGAGAGTGA	0	0	0	0.05	0.05
AGAAGAGAGTGA	0.18	0	0	0	0.18
AGAAGAGAGTGA	0.92	0.59	0	70.38	71.89
AGAAGAGAGTGA	0	0	0	0.15	0.15
AGAAGAGAGTGA	0	0	0	0.92	0.92
GAAGAGAGTGA	0.55	0.33	0.11	18.23	19.22
GAAGAGAGTGA	0	0	0	0.53	0.53
AAGAGAGTGA	0	0	0	0.05	0.05
CGTGCTCACCTCTCTGTGTC	0.18	0	0	0	0.18
TGCTCACCTCTCTCTGTGTC	0.18	0	0	0	0.18
TGCTCACCTCTCTCTGTGTC	1.29	0	0	0	1.29
TGCTCACCTCTCTCTGTGTC	0.55	0	0	0	0.55
GCTCACCTCTCTCTGTGTC	6.25	0.13	2.69	0	9.07
GCTCACCTCTCTCTGTGTC	0	0	0.11	0	0.11
GCTCACCTCTCTCTGTGTC	0.37	0	0.11	0	0.48
GCTCACCTCTCTCTGTGTC	0.37	0	0	0	0.37
GCTCACCTCTCTCTGTGTC	0.74	0	0	0	0.74
GCTCACCTCTCTCTGTGTC	0.55	0	0.22	0	0.77
GCTCACCTCTCTCTGTGTC	0.92	0	0.22	0	1.14
TCACCTCTCTCTGTGTC	0.37	0	0	0	0.37
CCTCTCTCTGTGTC	0	0	0.11	0	0.11

GTAGTTGACAGAAGAGAGTGAACACACAGGCAGCAATTGTATAAAATCATACCCTTGGGCGGTGCGTGCTCACCTCTCTCTGTGTCAGTGC
mdm-miR156h

mdm-miR156h*: GCTCACCTCTCTCTGTGTCAGC

>mdm-miR156i MI0022979

	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
GGTGACAGAAAGAGAGTGGAGCAC	0.19	0	0	0	0.19
GTGACAGAAAGAGAGTGGAGCA	0.15	0	0	0	0.15
GTGACAGAAAGAGAGTGGAGCAC	8.02	0.37	0	0	8.39
TGACAGAAAGAGAGTGGAGCA	273.79	16.36	1.83	2.6	294.58
TGACAGAAAGAGAGTGGAG	0.68	13.97	0.75	0	15.4
TGACAGAAAGAGAGTGGAGCAC	82324.33	306.54	25.85	715.83	83372.55
TGACAGAAAGAGAGTGGAGC	82.53	2.57	0.11	0.63	85.84
TGACAGAAAGAGAGTGGAG	0.97	1.29	0	0	2.26
TGACAGAAAGAGAGTGGAGCAC	0.68	0	0	0	0.68
TGACAGAAAGAGAGTGGAGT	0.15	0.74	0.11	0	1
TGACAGAAAGAGAGTGGAGCAC	1680.8	18.01	1.08	6.53	1706.42
GACAGAAAGAGAGTGGAGCAC	56.04	5.88	0.32	0.67	62.91
GACAGAAAGAGAGTGGAGCA	0.24	0.18	0.11	0	0.53
GACAGAAAGAGAGTGGAGCAC	1.7	0.37	0.65	0	2.72
GACAGAAAGAGAGTGGAG	0	0.18	0	0	0.18
GACAGAAAGAGAGTGGAGC	0.05	0	0	0	0.05
ACAGAAAGAGAGTGGAGC	0.05	0	0	0	0.05
ACAGAAAGAGAGTGGAGCAC	20.37	0.37	0	0.25	20.99
ACAGAAAGAGAGTGGAG	0	0.37	0.11	0	0.48
ACAGAAAGAGAGTGGAGCAC	1.31	2.76	0	0.13	4.2
ACAGAAAGAGAGTGGAGCAC	1.22	2.39	0	0.04	3.65
CAGAAAGAGAGTGGAGCACACAT	0.78	0	0	0	0.78
CAGAAAGAGAGTGGAGCAC	14.92	0.18	0.43	0.46	15.99
CAGAAAGAGAGTGGAGCAC	0.24	0	0.11	0.04	0.39
CAGAAAGAGAGTGGAGCAC	0.44	0	0	0	0.44
CAGAAAGAGAGTGGAGCA	0.05	0	0	0	0.05
AGAAAGAGAGTGGAGCAC	70.38	0.92	0	0.59	71.89
AGAAAGAGAGTGGAGCACACATG	0.1	0	0	0	0.1
AGAAAGAGAGTGGAGCAC	0.92	0	0	0	0.92
AGAAAGAGAGTGGAGCACACATGG	0.05	0	0	0	0.05
AGAAAGAGAGTGGAGCACACATGGTA	0.05	0	0	0	0.05
AGAAAGAGAGTGGAGCACACAT	0.05	0	0	0	0.05
AGAAAGAGAGTGGAGCA	0.15	0	0	0	0.15
AGAAAGAGAGTGGAGTGGT	0.19	0	0	0	0.19
GAAGAGAGTGGAGCAC	18.23	0.55	0.11	0.33	19.22
GAAGAGAGTGGAGCAC	0.53	0	0	0	0.53
AAGAGAGTGGAGCAC	0.05	0	0	0	0.05
AGAGTGGAGCACACATGGTATT	0.05	0	0	0	0.05
TGCTTAATCTCTATCTGTGGC	0.05	0	0	0	0.05
TGCTTAATCTCTATCTGTGGCC	2.09	0	0	0	2.09
TGCTTAATCTCTATCTGT	0.1	0	0	0	0.1
GCTTAATCTCTATCTGT	0.44	0	0	0	0.44
GCTTAATCTCTATCTGTGGCC	149.31	0	0	0	149.31
GCTTAATCTCTATCTGTGG	0.24	0	0	0	0.24
GCTTAATCTCTATCTGTGGC	8.89	0	0	0	8.89
CTTAATCTCTATCTGTGGCC	0.05	0	0	0	0.05
TTAATCTCTATCTGTGGCC	0.05	0	0	0	0.05
AATCTCTATCTGTGGCC	0.05	0	0	0	0.05
GGTGACAGAAAGAGAGTGGAGCACACATGGTATTTTTTTGTCATGCTGGGTTTCATGCTCGAAGCTTTGCGTGCCTTAATCTCTATCTGTGGCC	0.05	0	0	0	0.05

mdm-miR156i

mdm-miR156i*: GCTTAATCTCTATCTGTGGCC

>mdm-miR156j MI0022980

	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	Total
TTGACAGAAGAGAGTGAGCAC	0.21	0.37	0	0	0.58
TTGACAGAAGAGAGTGAGCACA	0.04	0	1.51	0	1.55
TTGACAGAAGAGAGTGAGC	0.5	0.37	2.82	0.22	3.91
TTGACAGAAGAGAGTGGA	0	0.37	0.05	0	0.42
TTGACAGAAGAGAGTGAGCA	0.67	4.23	7.87	0.54	13.31
TTGACAGAAGAGAGTGAG	0	6.98	0	1.08	8.06
TTGACAGAAGAGAGTGAGCAC	249.4	90.6	3126.69	21.97	3488.66
TGACAGAAGAGAGTGAGCACA	6.53	18.01	1680.8	1.08	1706.42
TGACAGAAGAGAGTGAG	0	13.97	0.68	0.75	15.4
TGACAGAAGAGAGTGAGCAC	715.83	306.54	82324.33	25.85	83372.55
TGACAGAAGAGAGTGAGCACAC	0	0	0.68	0	0.68
TGACAGAAGAGAGTG	0	0.74	0.15	0.11	1
TGACAGAAGAGAGTGAGCA	2.6	16.36	273.79	1.83	294.58
TGACAGAAGAGAGTGAGC	0.63	2.57	82.53	0.11	85.84
TGACAGAAGAGAGTGGA	0	1.29	0.97	0	2.26
GACAGAAGAGAGTGAGCA	0	0.18	0.24	0.11	0.53
GACAGAAGAGAGTGAGCAC	0.67	5.88	56.04	0.32	62.91
GACAGAAGAGAGTGAGCACA	0	0.37	1.7	0.65	2.72
GACAGAAGAGAGTGAG	0	0.18	0	0	0.18
GACAGAAGAGAGTGAGC	0	0	0.05	0	0.05
ACAGAAGAGAGTGAGCAC	0.25	0.37	20.37	0	20.99
ACAGAAGAGAGTGAGCACA	0.04	2.39	1.22	0	3.65
ACAGAAGAGAGTGAG	0	0.37	0	0.11	0.48
ACAGAAGAGAGTGAGCACA	0.13	2.76	1.31	0	4.2
ACAGAAGAGAGTGAGC	0	0	0.05	0	0.05
CAGAAGAGAGTGAGCACA	0.04	0	0.24	0.11	0.39
CAGAAGAGAGTGAGCACA	0	0	0.44	0	0.44
CAGAAGAGAGTGAGCAC	0.46	0.18	14.92	0.43	15.99
CAGAAGAGAGTGAGCACAC	0	0.18	0	0	0.18
CAGAAGAGAGTGAGCA	0	0	0.05	0	0.05
AGAAGAGAGTGAGCAC	0.59	0.92	70.38	0	71.89
AGAAGAGAGTGAGCACACAGGC	0	0.18	0	0	0.18
AGAAGAGAGTGAGCACA	0	0	0.92	0	0.92
AGAAGAGAGTGAGCA	0	0	0.15	0	0.15
GAAGAGAGTGAGCAC	0.33	0.55	18.23	0.11	19.22
GAAGAGAGTGAGCACA	0	0	0.53	0	0.53
AAGAGAGTGAGCACA	0	0	0.05	0	0.05
	0	0.18	0	0	0.18
CGTGCTACCTCTCTCTGTGTC	0	0.55	0	0	0.55
TGCTACCTCTCTCTCTGTGTC	0	1.29	0	0	1.29
TGCTACCTCTCTCTCTGTGTCAGC	0	0.18	0	0	0.18
TGCTACCTCTCTCTCTGTGTCAG	0.13	6.25	0	2.69	9.07
GCTCACCTCTCTCTCTGTGTCAGC	0	0.37	0	0.11	0.48
GCTCACCTCTCTCTCTGTGTC	0	0.74	0	0	0.74
GCTCACCTCTCTCTCTGTGTCAG	0	0.55	0	0.22	0.77
GCTCACCTCTCTCTCTGTGTCAGC	0	0	0	0.11	0.11

GTTGACAGAAGAGAGTGAGCACACACAGGCAGCAATTGTATAAAATCATACCTTTGGCGGTGCGTGCTACCTCTCTCTCTGTGTCAGC

mdm-miR156j

mdm-miR156j*: GCTCACCTCTCTCTGTGTCAGC

>mdm-miR156k MI0022981

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TGGTTGGGACTTAGGGTAGAAAT
ACTTAGGGTAGAAAATTGACAGAAG
AGAAAATTGACAGAAGAGAGTGAGC
ATTGACAGAAGAGAGTGAGCAC
ATTGACAGAAGAGAGTGAGCAC
ATTGACAGAAGAGAGTGAGCAC
TTGACAGAAGAGAGTGAGC
TTGACAGAAGAGAGTGAGCAC
TTGACAGAAGAGAGTGAGC
TTGACAGAAGAGAGTGAGCAC
TTGACAGAAGAGAGTGAGCAC
TTGACAGAAGAGAGTGAGC
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ACAGAAGAGAGTGAGCAC
ACAGAAGAGAGTGAGCAC
ACAGAAGAGAGTGAGC
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ACAGAAGAGAGTGAGC
CAGAAGAGAGTGAGCAC
CAGAAGAGAGTGAGCAC
CAGAAGAGAGTGAGC
AGAAGAGAGTGAGCAC
AGAAGAGAGTGAGCAC
AGAAGAGAGTGAGC
GAAGAGAGTGAGCAC
GAAGAGAGTGAGCAC
AAGAGAGTGAGCAC
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GSM880653_apple_root	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880655_apple_fruit	Total
0.05	0	0	0	0.05
0	0.04	0	0	0.04
0.05	0	0	0	0.05
19.98	0.59	0.55	0	21.12
0	0	0.55	0	0.55
0.05	0	0	0	0.05
2.82	0.5	0.37	0.22	3.91
3126.69	249.4	90.6	21.97	3488.66
0	0	6.98	1.08	8.06
7.87	0.67	4.23	0.54	13.31
1.51	0.04	0	0	1.55
0.05	0	0.37	0	0.42
0.15	0	0.74	0.11	1
1680.8	6.53	18.01	1.08	1706.42
82324.33	715.83	306.54	25.85	83372.55
273.79	2.6	16.36	1.83	294.58
82.53	0.63	2.57	0.11	85.84
0.68	0	13.97	0.75	15.4
0.97	0	1.29	0	2.26
56.04	0.67	5.88	0.32	62.91
1.7	0	0.37	0.65	2.72
0.24	0	0.18	0.11	0.53
0.05	0	0	0	0.05
0	0	0.18	0	0.18
1.31	0.13	2.76	0	4.2
20.37	0.25	0.37	0	20.99
0	0	0.37	0.11	0.48
0.05	0	0	0	0.05
0.24	0.04	0	0.11	0.39
0.05	0	0	0	0.05
14.92	0.46	0.18	0.43	15.99
0.15	0	0	0	0.15
0.92	0	0	0	0.92
70.38	0.59	0.92	0	71.89
18.23	0.33	0.55	0.11	19.22
0.53	0	0	0	0.53
0.05	0	0	0	0.05
0	0	1.1	0.11	1.21
2.09	0.08	15.99	0.43	18.59
0	0	1.65	0	1.65
0	0	0.92	0	0.92
0	0	0.55	0	0.55
0	0	0.37	0	0.37
5.1	0.13	15.62	0.11	20.96
0.1	0	0.55	0	0.65
0.05	0	0	0	0.05
0.24	0.04	0.74	0	1.02
0	0	1.1	0	1.1
0	0	1.1	0	1.1
0	0	0.18	0	0.18
0	0	0.18	0	0.18
0	0	0	0.32	0.32

GTGTTAATTTGGTTGGGACTTAGGGTAGAAATTGACAGAAGAGAGTGAGCACAYAGAGGACACTTGGCCATAAAGCGTATGCCATTGCTTTTGCGTGCTCATGTCTCTTTCTGTGCAGCTTCCCATTTCCACACGCGGATTAAATAT

mdm-miR156k

mdm-miR156k*: GCTCATGTCTCTTTCTGTGCAGC

>mdm-miR156o MI0022985

	GSM880653_apple_root	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880655_apple_fruit	Total
ACGGTGACAGAAGAGACTGAGC	0.05	0	0	0	0.05
ACGGTGACAGAAGAGACTGA	0.05	0	0	0	0.05
GGTGACAGAAGAGACTGAGCAC	0.19	0	0	0	0.19
GTGACAGAAGAGACTGAGCAC	8.02	0.37	0	0	8.39
GTGACAGAAGAGACTGAGCA	0.15	0	0	0	0.15
TGACAGAAGAGACTGA	0.97	1.29	0	0	2.26
TGACAGAAGAGACTG	0.15	0.74	0	0.11	1
TGACAGAAGAGACTGAGCAC	82324.33	306.54	715.83	25.85	83372.55
TGACAGAAGAGACTGAG	0.68	13.97	0	0.75	15.4
TGACAGAAGAGACTGAGCA	273.79	16.36	2.6	1.83	294.58
TGACAGAAGAGACTGAGCAC	1680.8	18.01	6.53	1.08	1706.42
TGACAGAAGAGACTGAGCAC	0.68	0	0	0	0.68
TGACAGAAGAGACTGAGC	82.53	2.57	0.63	0.11	85.84
GACAGAAGAGACTGAGCA	0.24	0.18	0	0.11	0.53
GACAGAAGAGACTGAGCAC	56.04	5.88	0.67	0.32	62.91
GACAGAAGAGACTGAGC	0.05	0	0	0	0.05
GACAGAAGAGACTGAGCAC	1.7	0.37	0	0.65	2.72
GACAGAAGAGACTGAG	0	0.18	0	0	0.18
ACAGAAGAGACTGAGC	0.05	0	0	0	0.05
ACAGAAGAGACTGAGCAC	20.37	0.37	0.25	0	20.99
ACAGAAGAGACTGAG	0	0.37	0	0.11	0.48
ACAGAAGAGACTGAGCAC	1.22	2.39	0.04	0	3.65
ACAGAAGAGACTGAGCAC	1.31	2.76	0.13	0	4.2
CAGAAGAGACTGAGCAC	14.92	0.18	0.46	0.43	15.99
CAGAAGAGACTGAGCAC	0.24	0	0.04	0.11	0.39
CAGAAGAGACTGAGCACACAT	0.78	0	0	0	0.78
CAGAAGAGACTGAGCACACA	0.44	0	0	0	0.44
CAGAAGAGACTGAGCA	0.05	0	0	0	0.05
AGAAGAGACTGAGCAC	70.38	0.92	0.59	0	71.89
AGAAGAGACTGAGCACACATG	0.1	0	0	0	0.1
AGAAGAGACTGAGCACACA	0.92	0	0	0	0.92
AGAAGAGACTGAGCACACATGGT	0.19	0	0	0	0.19
AGAAGAGACTGAGCACACATGGTA	0.05	0	0	0	0.05
AGAAGAGACTGAGCACACAT	0.05	0	0	0	0.05
AGAAGAGACTGAGCACACATGG	0.05	0	0	0	0.05
AGAAGAGACTGAGCA	0.15	0	0	0	0.15
GAAAGAGACTGAGCAC	18.23	0.55	0.33	0.11	19.22
GAAAGAGACTGAGCAC	0.53	0	0	0	0.53
AAGAGACTGAGCAC	0.05	0	0	0	0.05
AGAGTGAGCACACATGGTATT	0.05	0	0	0	0.05
	0.19	0	0	0	0.19
TTGCGTGCTTACTCTCTATCTG	0.05	0	0	0	0.05
TGCGTGCTTACTCTCTATCTGT	0.05	0	0	0	0.05
TGCTTACTCTCTATCTGTCCACC	1.36	1.47	0	0	2.83
TGCTTACTCTCTATCTGTCC	0	0	0	0.11	0.11
TGCTTACTCTCTATCTGT	0	0.18	0	0	0.18
TGCTTACTCTCTATCTGTCCAC	0	0.18	0	0	0.18
GCTTACTCTCTATCTGTCA	0.05	0	0	0	0.05
GCTTACTCTCTATCTGTCCACC	29.11	0.55	0	0	29.66
GCTTACTCTCTATCTGTCCACCA	0.68	0	0	0	0.68
GCTTACTCTCTATCTGTCCAC	0.73	0	0	0	0.73
GCTTACTCTCTATCTGTCC	0.05	0	0	0	0.05
TTACTCTCTATCTGTCCACC	0.15	0	0	0	0.15
TACTCTCTATCTGTCCACC	0.05	0	0	0	0.05
TCTCTATCTGTCCACC	0.05	0	0	0	0.05
GACGGTGACAGAAGAGACTGAGCACACATGGTATTTTCTTGCAATGCTGGGTTCACTGCTTGAAGCTTTGCGTGCTTACTCTCTATCTGTCCACCATC					

mdm-miR156o

mdm-miR156o*: GCTTACTCTCTATCTGTCCACC

>mdm-miR156u MI0022991

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880655_apple_fruit	Total
TGTTGACAGAAGAGAGAGCAC	0.05	0	0	0	0.05
TGTTGACAGAAGAGAGAGGC	0.05	0.04	0	0	0.09
TTGACAGAAGAGAGAGCAC	6545.6	1354.43	3.49	23.05	7926.57
TTGACAGAAGAGAGAGA	0.05	0	0	0.11	0.16
TTGACAGAAGAGAGAGCA	20.71	4.02	0	0.86	25.59
TTGACAGAAGAGAGAGCACA	4.18	0.8	0	0.22	5.2
TTGACAGAAGAGAGAGA	0.15	0.13	0	0	0.28
TTGACAGAAGAGAGAGCACA	0.49	0.17	0	0	0.66
TTGACAGAAGAGAGAGG	0.15	0	0	0	0.15
TTGACAGAAGAGAGAGGC	3.65	0.88	0	0.11	4.64
TTGACAGAAGAGAGAGG	0.24	0	0	1.94	2.18
TGACAGAAGAGAGAGCACA	6.71	0.63	0.18	0.11	7.63
TGACAGAAGAGAGAGAG	0	0	0	0.11	0.11
TGACAGAAGAGAGAGCACA	0.05	0	0	0	0.05
TGACAGAAGAGAGAGGCAC	203.27	5.65	0.18	0.75	209.85
TGACAGAAGAGAGAGGC	0.78	0	0	0.11	0.89
TGACAGAAGAGAGAGGCA	0.63	0.04	0	0	0.67
GACAGAAGAGAGAGGCAC	2.48	0.59	0	0.32	3.39
GACAGAAGAGAGAGGCA	0.1	0	0	0	0.1
ACAGAAGAGAGAGGCACAAC	0.05	0	0	0.32	0.37
ACAGAAGAGAGAGGCAC	1.07	0.13	0	0	1.2
ACAGAAGAGAGAGGC	0	0	0	0.11	0.11
CAGAAGAGAGAGGC	0.05	0	0	0	0.05
CAGAAGAGAGAGGCAC	5.1	1.47	0	0.11	6.68
AGAAGAGAGAGGCAC	1.6	0.08	0.18	0	1.86
AGAAGAGAGAGGCACA	0.05	0	0	0	0.05
GAAGAGAGAGGCAC	0.15	0.04	0	0	0.19
GAAGAGAGAGGCACA	0.05	0	0	0	0.05
	0	0	0	0.11	0.11
TGCTTCTCTTCTCTG	0	0	0	0.11	0.11
GCTTCTCTTCTCTGTCATC	1.26	0.46	0	5.82	7.54
GCTTCTCTTCTCTGTC	0	0	0	0.11	0.11
GCTTCTCTTCTCTGTCATCA	0.05	0	0	0.54	0.59
GCTTCTCTTCTCTGTCATCAT	0.05	0	0	0	0.05
GCTTCTCTTCTCTGTCAT	0	0.04	0	0	0.04
GCTTCTCTTCTCTGTCG	0	0	0	0.11	0.11
GCTTCTCTTCTCTG	0	0	0	0.32	0.32
GCTTCTCTTCTCTGCA	0	0	0	0.22	0.22

ATGTTGACAGAAGAGAGAGCACAACCCGCCATCGGCTAAGGAGAGTCTTTACGTTGCTGGGAGTGTGCTTCTCTTCTCTGTCATCAT

mdm-miR156u

mdm-miR156u*-1: GCTTCTCTTCTCTGTCATC
mdm-miR156u*-2: GCTTCTCTTCTCTGTCATCA

>mdm-MIR156v MI0022992

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880655_apple_fruit	Total
TGTTGACAGAAGAGAGAGCAC	0.05	0.04	0	0	0.05
TGTTGACAGAAGAGAGAGGC	0.05	0.04	0	0	0.09
TTGACAGAAGAGAGAGAGCAC	6545.6	1354.43	3.49	23.05	7926.57
TTGACAGAAGAGAGAGA	0.05	0	0	0.11	0.16
TTGACAGAAGAGAGAGAGCA	20.71	4.02	0	0.86	25.59
TTGACAGAAGAGAGAGACACA	4.18	0.8	0	0.22	5.2
TTGACAGAAGAGAGAGAGA	0.15	0.13	0	0	0.28
TTGACAGAAGAGAGAGGCACAA	0.49	0.17	0	0	0.66
TTGACAGAAGAGAGAG	0.15	0	0	0	0.15
TTGACAGAAGAGAGAGGC	3.65	0.88	0	0.11	4.64
TTGACAGAAGAGAGAGAG	0.24	0	0	1.94	2.18
TGACAGAAGAGAGAGAGCACA	6.71	0.63	0.18	0.11	7.63
TGACAGAAGAGAGAGAG	0	0	0	0.11	0.11
TGACAGAAGAGAGAGAGCACA	0.05	0	0	0	0.05
TGACAGAAGAGAGAGAGCAC	203.27	5.65	0.18	0.75	209.85
TGACAGAAGAGAGAGAGC	0.78	0	0	0.11	0.89
TGACAGAAGAGAGAGAGCA	0.63	0.04	0	0	0.67
GACAGAAGAGAGAGAGCAC	2.48	0.59	0	0.32	3.39
GACAGAAGAGAGAGAGCA	0.1	0	0	0	0.1
ACAGAAGAGAGAGAGCACAAC	0.05	0	0	0.32	0.37
ACAGAAGAGAGAGAGCAC	1.07	0.13	0	0	1.2
ACAGAAGAGAGAGAGGC	0	0	0	0.11	0.11
CAGAAGAGAGAGAGGC	0.05	0	0	0	0.05
CAGAAGAGAGAGAGCAC	5.1	1.47	0	0.11	6.68
AGAAGAGAGAGAGAGCAC	1.6	0.08	0.18	0	1.86
AGAAGAGAGAGAGCACA	0.05	0	0	0	0.05
GAAGAGAGAGAGCAC	0.15	0.04	0	0	0.19
GAAGAGAGAGAGCACA	0.05	0	0	0	0.05
	0	0	0	0.11	0.11
TGCTTCTCTTCTCTG	0	0	0	0	0
GCTTCTCTTCTTCTGTCATC	1.26	0.46	0	5.82	7.54
GCTTCTCTTCTTCTGTC	0	0	0	0.11	0.11
GCTTCTCTTCTTCTGTCATCA	0.05	0	0	0.54	0.59
GCTTCTCTTCTTCTGTCATCAT	0.05	0	0	0	0.05
GCTTCTCTTCTTCTGTCAT	0	0.04	0	0	0.04
GCTTCTCTTCTTCTGT	0	0	0	0.11	0.11
GCTTCTCTTCTTCTG	0	0	0	0.32	0.32
GCTTCTCTTCTTCTGCA	0	0	0	0.22	0.22
ATGTTGACAGAAGAGAGAGAGCACAACCCGCCATCGGCTAAGGAGTCTTTACGTTGCTGGGAGTGTGCTTCTCTTCTTCTGTCATCAT					

mdm-miR156v

mdm-miR156v*-1: GCTTCTCTTCTTCTGTCATC
mdm-miR156v*-2: GCTTCTCTTCTTCTGTCATCA

>mdm-miR156w MI0022993

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
TGTTGACAGAAGAGAGAGAGC	0.04	0.05	0	0	0.09
TGTTGACAGAAGAGAGAGAGCAC	0	0.05	0	0	0.05
TTGACAGAAGAGAGAGAGA	0.13	0.15	0	0	0.28
TTGACAGAAGAGAGAGAG	0	0.15	0	0	0.15
TTGACAGAAGAGAGAGAGCACA	0.8	4.18	0.22	0	5.2
TTGACAGAAGAGAGAGAG	0	0.24	1.94	0	2.18
TTGACAGAAGAGAGAGAGC	0.88	3.65	0.11	0	4.64
TTGACAGAAGAGAGAGAGCA	4.02	20.71	0.86	0	25.59
TTGACAGAAGAGAGAGAGCACA	0.17	0.49	0	0	0.66
TTGACAGAAGAGAGAGA	0	0.05	0.11	0	0.16
TTGACAGAAGAGAGAGAGCAC	1354.43	6545.6	23.05	3.49	7926.57
TGACAGAAGAGAGAGAGCACA	0.63	6.71	0.11	0.18	7.63
TGACAGAAGAGAGAGAGC	0	0.78	0.11	0	0.89
TGACAGAAGAGAGAGAG	0	0	0.11	0	0.11
TGACAGAAGAGAGAGAGCACA	0	0.05	0	0	0.05
TGACAGAAGAGAGAGAGCAC	5.65	203.27	0.75	0.18	209.85
TGACAGAAGAGAGAGAGCA	0.04	0.63	0	0	0.67
GACAGAAGAGAGAGAGCAC	0.59	2.48	0.32	0	3.39
GACAGAAGAGAGAGAGCA	0	0.1	0	0	0.1
ACAGAAGAGAGAGAGCAC	0.13	1.07	0	0	1.2
ACAGAAGAGAGAGAGCACAAC	0	0.05	0.32	0	0.37
ACAGAAGAGAGAGAGC	0	0	0.11	0	0.11
CAGAAGAGAGAGAGCAC	1.47	5.1	0.11	0	6.68
CAGAAGAGAGAGAGC	0	0.05	0	0	0.05
AGAAGAGAGAGAGCACA	0	0.05	0	0	0.05
AGAAGAGAGAGAGCAC	0.08	1.6	0	0.18	1.86
GAAGAGAGAGAGCAC	0.04	0.15	0	0	0.19
GAAGAGAGAGAGCACA	0	0.05	0	0	0.05
AGTGTGCTCTCTTTTCTCTGT	0	0	0.11	0	0.11
GCTCTCTTTTCTCTGTCA	0	0	0.11	0	0.11
GCTCTCTTTTCTCTGTCAATCA	0	0	0.32	0	0.32
GCTCTCTTTTCTCTGTCAATC	0.04	0	0.11	0.55	0.7
TGTTGACAGAAGAGAGAGAGCACAACCCRCATCGGCTAAAGAGAGTCTTTCCGTTGTTGGGAGTGTGCTCTCTTTTCTCTGTCAATCA					

mdm-miR156w

mdm-miR156w*-1: GCTCTCTTTTCTCTGTCAATC
mdm-miR156w*-2: GCTCTCTTTTCTCTGTCAATCA

>mdm-miR159b MI0023003

AGCTCCCTTTGATTCAAAAG
 AGCTCCCTTTGATTCAA
 AGCTCCCTTTGATTCAAAAG
 AGCTCCCTTTGATTCAAAA
 AGCTCCCTTTGATTCAA
 GCTCCCTTTGATTCAAAAG
 CTCCTTTGATTCAAAAG
 TCCCTTTGATTCAAAAG
 CCTTTGATTCAAAAG
 AGGAGGGAGAGAGGGTCTTACA
 AGGAGGGAGAGAGGGTCTTACT
 AGGAGGGAGAGAGGGTCTT
 AGGAGGGAGAGAGGGT
 AGGAGGGAGAGAGGGTCTTAC
 AGGAGGGAGAGAGGG
 AGGAGGGAGAGAGGGTCTTACAC
 AGGAGGGAGAGAGGGTCTT
 AGGAGGGAGAGAGGGTCT
 GGAGGGAGAGAGGGTCTTACA
 GGAGGGAGAGAGGGTCTTACAC
 GAGGGAGAGAGGGTCTTACAC
 GAGGGAGAGAGGGTCTTAC
 GAGGGAGAGAGGGTCTT
 AGGGAGAGAGGGTCTTACTGC
 TGTCTGTTCTATGGATACC
 TGTCTGTTCTATGGATAC
 TGTCTGTTCTATGGAT

TTTGCATGACCCAGGAGATG
 TTTGCATGACCCAGGAGATG
 TGTGAATTCCTTCCTCTCC
 TGTGAATTCCTTCCTCTC
 GAATTCCTTCCTCTCCTTT
 123.13
 4.04
 0.18
 0.74
 0.37
 0.18
 0.55
 TTCTTGGATTGAAGGAGC
 TTCTTGGATTGAAGGAGCTCC
 TTCTTGGATTGAAGGAGCTC
 TTCTTGGATTGAAGGAGC
 TTCTTGGATTGAAGGAGCTC
 TTCTTGGATTGAAGGAGCTCC
 TTCTTGGATTGAAGGAGCT
 TCTTGGATTGAAGGAGCTC
 TCTTGGATTGAAGGAG
 TCTTGGATTGAAGGAG
 TCTTGGATTGAAGGAGCTCC
 TCTTGGATTGAAGGAGCTC
 CTGGATTGAAGGAGCTC
 CTGGATTGAAGGAGCTC
 CTGGATTGAAGGAGCTC
 29.04
 2.76
 3.68
 1.47
 0
 1.47
 0
 0.18
 0.74
 0.55
 0.55
 0.18
 0
 0.37
 0
 0.37

GSM880654_apple_flower	GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880653_apple_root	Total
14.52	0.75	0.46	1.7	17.43
0.18	0	0	0	0.18
0	0	0	0.05	0.23
0	0	0.04	0.1	0.14
0.55	0	0	0	0.55
0	0	0	0.15	0.15
0.18	0	0	0	0.18
0	0.04	0	0	0.04
0.18	0.11	0	0	0.29
13.97	2.15	0.25	0.1	16.47
0	0	0.08	0.05	0.13
1.84	0.11	0	0.05	2
0	0.11	0.04	0	0.15
9.19	0.65	0.5	0.97	11.31
0.37	0	0	0	0.37
18.56	0.75	1.59	1.36	22.26
2.39	1.29	0	0.15	3.83
0	0.11	0	0.1	0.21
0.37	0.11	0	0	0.48
0.18	0.11	0	0	0.29
0	0.11	0.04	0.05	0.2
0.18	0	0	0	0.18
0.18	0	0	0	0.18
0	0	0	0.05	0.05
0	0	0.42	0.1	0.52
0	0	0	0.05	0.05
0.18	0	0	0	0.18
1.47	0.43	5.06	1.26	8.22
0	0	0.25	0	0.25
0.74	0	0	0.1	0.84
0	0.32	0	0	0.32
123.13	5.49	0.04	0.39	129.05
4.04	0.43	0	0.1	4.57
0	0	0	0	0
0.18	0.11	0	0	0.85
0.74	0	0	0	0.37
0.18	0	0	0	0.18
0.55	0	0	0	0.55
0	0	0.04	0.1	0.14
0	0	0	0.05	0.05
0	0	0	0.05	0.05
0	0	0.04	0.05	0.09
0	0	0.04	0.05	0.09
0	0	0	0.1	0.1
0	0	0.04	0	0.04
0.18	0	0.54	0.39	1.11
0	0	0.17	0.29	0.46
0	0.22	0.21	0.29	0.72
0.18	0	0.08	0	0.26
0.18	0	0	0.1	0.28
0	0	1.93	3.11	5.04
0	0	0.04	0.19	0.23
11.58	8.19	10	17.59	47.36
4.96	1.94	3.85	3.84	14.59
2.21	0.32	32.06	26.34	60.93
29.04	13.79	32.82	25.52	101.17
2.76	0.75	240.86	299.65	544.02
3.68	1.83	3.27	2.67	11.45
1.47	0.22	0.04	0	1.73
0	0	0.17	0.15	0.32
1.47	0.65	0	1.02	3.14
0	0	1.84	4.23	6.07
0.18	0.22	0.13	0.05	0.58
0.74	0.32	0.04	0	1.1
0.55	0.11	0.08	0.1	0.84
0.55	0.43	0	0	0.98
0.18	0	0.46	1.07	1.71
0	0	0.54	0.44	0.98
0.37	0.11	0	0	0.48
0	0	0.17	0.15	0.32
0.37	0	0.13	0.05	0.55

GGAGCTCCCTTTGATTCAAAAGCAGGAGGGAGAGAGGGTCTTACACTGCTGTTCTATGGATACCTCTGGGGTGGCGACGGTRAGGAACTGCGCAGTTAAAGGTTTGATGACCCAGGAGATGTGAATTCCTTCCTCTCCTTTCTTGGATTGAAGGAGCTCC

mdm-miR159b

mdm-miR159b*-1: AGCTCCCTTTGATTCAAAAG
 mdm-miR159b*-2: AGCTCCCTTTGATTCAAAAGC

>mdm-MIR160a MI0023004

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880655_apple_fruit	Total
ATGCCCTGGCTCCCTGTATGCCA	0.24	0.08	0	0	0.32
ATGCCCTGGCTCCCTGTATGCC	0.19	0.04	0	0	0.23
TGCCCTGGCTCCCTGTATG	0.05	0	0	0	0.05
TGCCCTGGCTCCCTGTATGCCA	29.94	6.2	14.7	6.68	57.52
TGCCCTGGCTCCCTGTATGCC	0.05	0.04	0.55	0	0.64
TGCCCTGGCTCCCTGTATGCCAC	0.05	0	0	0	0.05
TGCCCTGGCTCCCTGTATGC	0.15	0	0	0	0.15
TGCCCTGGCTCCCTGTAT	0	0	1.65	0.32	1.97
GCCTGGCTCCCTGTATGCCA	0.1	0.04	0.18	0.11	0.43
GCCTGGCTCCCTGTATGCCAC	0.63	0.04	0	0	0.67
CCTGGCTCCCTGTAT	0	0	0.18	0	0.18
CCTGGCTCCCTGTATGCCA	0	0	0.18	0.11	0.29
CTGGCTCCCTGTATGCCA	0	0	0.18	0	0.18
GCTCCCTGTATGCCACAAGC	0	0	0	0.11	0.11
	0.05	0	0	0	0.05
TTTCTTGATTGGCTATTGTGGGT					
	0.05	0	0	1.4	143.78
	128.02	14.36	0	0.11	1.46
GCCTACAAGGAGCCAAGCATA	1.31	0.04	0	0	6.16
GCCTACAAGGAGCCAAGCA	6.12	0.04	0	0	0.05
GCCTACAAGGAGCCAAGC	0.05	0	0	0	0.05
CGTACAAGGAGCCAAGCATA	0.87	0.08	0	0	0.05
CGTACAAGGAGCCAAGCA	0.05	0	0	0	0.05
CGTACAAGGAGCCAAGCAT	0.05	0	0	0	0.05
GTACAAGGAGCCAAGCATA	0.05	0	0	0	0.05
ACAAGGAGCCAAGCATA	0.24	0	0	0	0.24
CAAGGAGCCAAGCATA	0.05	0	0	0	0.05
TATGCCCTGGCTCCCTGTATGCCACAAGCAGAAGTTCAATTTCTTGATTGGCTATTGIGGGTGGCTACAAGGAGCCAAGCATA					

mdm-miR160a

mdm-miR160a*: GCCTACAAGGAGCCAAGCATA

>mdm-MIR160b MI0023005

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
ATGCCTGGCTCCCTGTATGCCA	0	0.24	0	0	0.32
ATGCCTGGCTCCCTGTATGCC	0.04	0.19	0	0	0.23
TGCCTGGCTCCCTGTATGCC	0.04	0.05	0	0.55	0.64
TGCCTGGCTCCCTGTATGCCAC	0	0.05	0	0	0.05
TGCCTGGCTCCCTGTAT	0	0	0.32	1.65	1.97
TGCCTGGCTCCCTGTATGC	0	0.15	0	0	0.15
TGCCTGGCTCCCTGTATGCCA	6.2	29.94	6.68	14.7	57.52
TGCCTGGCTCCCTGTATG	0	0.05	0	0	0.05
GCCTGGCTCCCTGTATGCCA	0.04	0.1	0.11	0.18	0.43
GCCTGGCTCCCTGTATGCCAC	0.04	0.63	0	0	0.67
CCTGGCTCCCTGTATGCCA	0	0	0.11	0.18	0.29
CCTGGCTCCCTGTAT	0	0	0	0.18	0.18
CTGGCTCCCTGTATGCCA	0	0	0	0.18	0.18
GCTCCCTGTATGCCACAAGC	0	0	0.11	0	0.11
CAAGCAGAAGTTCAATCTG	0	0	0.11	0	0.11
CAAGCAGAAGTTCAATCTGT	0	0	0.11	0	0.11
TGGCGTATGAGGAGTCAAGCAT	0.04	0	0	0	0.04
GCCTATGAGGAGTCAAGCAT	0.84	4.28	0.86	0.37	6.35
GCCTATGAGGAGTCAAGCA	0	0.15	0	0	0.15
GCCTATGAGGAGTCAAGCATA	0	0.05	0	0	0.05
GCCTATGAGGAGTCAAGCA	0	0	0.11	0.18	0.29
GCCTATGAGGAGTCAAGCATA	1.21	7.39	2.15	0.92	11.67
GCCTATGAGGAGTCAAGCAT	0	0.39	0	0	0.39
CGTATGAGGAGTCA	0	0	0	0.18	0.18
CGTATGAGGAGTCAAGCATA	0	0	0.11	0	0.11
ATGAGGAGTCAAGCAT	0	0.1	0	0	0.1
ATGAGGAGTCAAGCATA	0	0.1	0	0	0.1
TTATGCCTGGCTCCCTGTATGCCACAAGCAGAAGTTCAATCTGTTTCTCGATTGGCTATTGCGGGTGGCGTATGAGGAGTCAAGCATAG	0	0	0	0	0

mdm-miR160b

mdm-miR160b*: GCGTATGAGGAGTCAAGCATA

>mdm-miR160c MI0023006

	GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	Total
ATGTGCTGGCTCCCTGTATGCCA	0.11	0	0	0	0.11
GTGCTGGCTCCCTGTATGCCA	0	0.04	0.05	0	0.09
TGCTGGCTCCCTGTAT	0.32	0	0	1.65	1.97
TGCTGGCTCCCTGTATGCCA	6.68	6.2	29.94	14.7	57.52
TGCTGGCTCCCTGTATGCCATT	0.22	0.04	0.05	0	0.31
TGCTGGCTCCCTGTATG	0	0	0.05	0	0.05
TGCTGGCTCCCTGTATGCC	0	0.04	0.05	0.55	0.64
TGCTGGCTCCCTGTATGCCAT	0.32	0.08	0.29	0.18	0.87
TGCTGGCTCCCTGTATGC	0	0	0.15	0	0.15
GCCTGGCTCCCTGTATGCCA	0.11	0.04	0.1	0.18	0.43
GCCTGGCTCCCTGTATGCCAT	0	0	0.1	0	0.1
CCTGGCTCCCTGTATGCCATT	1.4	0	0	1.65	3.05
CCTGGCTCCCTGTATGCCA	0.11	0	0	0.18	0.29
CCTGGCTCCCTGTATGCCAT	0.11	0	0.05	0.55	0.71
CCTGGCTCCCTGTAT	0	0	0	0.18	0.18
CTGGCTCCCTGTATGCCA	0	0	0	0.18	0.18
TTTGCAGAGTCCCACCGAACA	0	0.04	0	0	0.04
ACCGAACAGCGATGGCTCT	0	0.04	0	0	0.04
CCGAACAGCGATGGCTCTG	0	0.08	0.05	0	0.13
CCGAACAGCGATGGCTCT	0	0	0.05	0	0.05
CCGAACAGCGATGGCTC	0.11	0	0	0	0.11
CGAACAGCGATGGCTCTG	0	0.05	0.05	0	0.05
GCGATGGCTCTGTGGATGGCT	0	0.04	0	0	0.04
TGGCTATGAGGAGCCAAGCA	0	0	0	0.18	0.18
GGCTATGAGGAGCCAAGCATA	0	0	0.1	0	0.1
GGCTATGAGGAGCCAAGCAT	0	0	0.05	0	0.05
GCGTATGAGGAGCCAAGCA	0	0.08	0.15	0.18	0.41
GCGTATGAGGAGCCAAGCAT	0	0.08	0.49	0	0.57
GCGTATGAGGAGCCAAGCATA	1.29	3.39	14.14	1.29	20.11
GCGTATGAGGAGCCA	0.11	0	0	0	0.11
CGTATGAGGAGCCAAGCATA	0	0	0.05	0	0.05
CGTATGAGGAGCCAAGCATA	0	0	0	0.18	0.18
GTATGAGGAGCCAAGCATA	0	0	0.05	0	0.05
GTATGAGGAGCCAAGCATA	0.43	0	0	0	0.43
ATGAGGAGCCAAGCATA	0	0	0.05	0	0.05
TATGTGCTGGCTCCCTGTATGCCATTTGCAGAGTCCCACCGAACAGCGATGGCTCTGTGGATGGCTATGAGGAGCCAAGCATA	0	0	0.05	0	0.05

mdm-miR160c

mdm-miR160c*: GCGTATGAGGAGCCAAGCATA

>mdm-MIR160d MI0023007

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
ATGCCTGGCTCCCTGTATGCCA	0	0.24	0	0	0.32
ATGCCTGGCTCCCTGTATGCC	0.04	0.19	0	0	0.23
TGCCTGGCTCCCTGTATGCC	0.04	0.05	0	0.55	0.64
TGCCTGGCTCCCTGTATGCCAC	0	0.05	0	0	0.05
TGCCTGGCTCCCTGTAT	0	0	0.32	1.65	1.97
TGCCTGGCTCCCTGTATGC	0	0.15	0	0	0.15
TGCCTGGCTCCCTGTATGCCA	6.2	29.94	6.68	14.7	57.52
TGCCTGGCTCCCTGTATG	0	0.05	0	0	0.05
GCCTGGCTCCCTGTATGCCA	0.04	0.1	0.11	0.18	0.43
GCCTGGCTCCCTGTATGCCAC	0.04	0.63	0	0	0.67
CCTGGCTCCCTGTATGCCA	0	0	0.11	0.18	0.29
CCTGGCTCCCTGTAT	0	0	0	0.18	0.18
CTGGCTCCCTGTATGCCA	0	0	0	0.18	0.18
GCTCCCTGTATGCCACAAGC	0	0	0.11	0	0.11
CAAGCAGAAGTTCAATCTG	0	0	0.11	0	0.11
CAAGCAGAAGTTCAATCTGT	0	0	0.11	0	0.11
TGGCGTATGAGGAGTCAAGCAT	0.04	0	0	0	0.04
GGCGTATGAGGAGTCAAGCAT	0.84	4.28	0.86	0.37	6.35
GGCGTATGAGGAGTCAAGCA	0	0.15	0	0	0.15
GGCGTATGAGGAGTCAAGCATA	0	0.05	0	0	0.05
GCCTATGAGGAGTCAAGCA	0	0	0.11	0.18	0.29
GCCTATGAGGAGTCAAGCATA	1.21	7.39	2.15	0.92	11.67
GCCTATGAGGAGTCAAGCAT	0	0.39	0	0	0.39
CGTATGAGGAGTCA	0	0	0	0.18	0.18
CGTATGAGGAGTCAAGCATA	0	0	0.11	0	0.11
ATGAGGAGTCAAGCAT	0	0.1	0	0	0.1
ATGAGGAGTCAAGCATA	0	0.1	0	0	0.1
TTATGCCTGGCTCCCTGTATGCCACAAGCAGAAGTTCAATCTGTTTCTCGATTGGCTATTGCGGGTGGCGTATGAGGAGTCAAGCATAG	0	0	0	0	0

mdm-miR160d

mdm-miR160d*: GCGTATGAGGAGTCAAGCATA

>mdm-MIR160e MI0023008

	GSM880655_apple_fruit	GSM880653_apple_root	GSM880652_apple_leaf	GSM880654_apple_flower	Total
ATGTGGCTGGCTCCCTGTATGCCA	0.11	0	0	0	0.11
GTGGCTGGCTCCCTGTATGCCA	0	0.05	0.04	0	0.09
TGCTGGCTCCCTGTAT	0.32	0	0	1.65	1.97
TGCTGGCTCCCTGTATGCCA	6.68	29.94	6.2	14.7	57.52
TGCTGGCTCCCTGTATGCC	0	0.05	0.04	0.55	0.64
TGCTGGCTCCCTGTATGCCATT	0.22	0.05	0.04	0	0.31
TGCTGGCTCCCTGTATG	0	0.05	0	0	0.05
TGCTGGCTCCCTGTATGC	0	0.15	0	0	0.15
TGCTGGCTCCCTGTATGCCAT	0.32	0.29	0.08	0.18	0.87
GCCTGGCTCCCTGTATGCCA	0.11	0.1	0.04	0.18	0.43
GCCTGGCTCCCTGTATGCCAT	0	0.1	0	0	0.1
CCTGGCTCCCTGTATGCCATT	1.4	0	0	1.65	3.05
CCTGGCTCCCTGTATGCCAT	0.11	0.05	0	0.55	0.71
CCTGGCTCCCTGTATGCCA	0.11	0	0	0.18	0.29
CCTGGCTCCCTGTAT	0	0	0	0.18	0.18
CTGGCTCCCTGTATGCCA	0	0	0	0.18	0.18
TTTGCAGAGTTCCACCGAACATCG	0.11	0	0	0	0.11
TGGCGTATGAGGAGCCATGCA	0.11	0.05	0.04	0	0.2
GGCGTATGAGGAGCCATGCATATA	0.32	0	0	0	0.32
GGCGTATGAGGAGCCATGCATA	0	0.24	0.46	0	0.7
GGCGTATGAGGAGCCATGCAT	0	0.05	0.04	0	0.09
GCGTATGAGGAGCCA	0.11	0	0	0	0.11
GCGTATGAGGAGCCATGCATAT	0.11	0.19	0.17	0	0.47
GCGTATGAGGAGCCATG	0.11	0	0	0	0.11
GCGTATGAGGAGCCATGCAT	0.11	3.84	0.8	0	4.75
GCGTATGAGGAGCCAT	0.11	0	0	0	0.11
GCGTATGAGGAGCCATGCATA	11.96	89.97	64.67	1.84	168.44
GCGTATGAGGAGCCATGCA	0	0.63	0	0	0.63
GCGTATGAGGAGCCATGC	0.22	0	0	0	0.22
CGTATGAGGAGCCATGCATA	0.22	0	0	0	0.22
ATGAGGAGCCATGCATA	0	0.05	0.08	0	0.13
TATGTGGCTGGCTCCCTGTATGCCATTTGCAGAGTTCCACCGAACATCGATGGCTCCGTGGATGGCGTATGAGGAGCCATGCATATA					

mdm-miR160e

mdm-miR160e*: GCGTATGAGGAGCCATGCATA

>mdm-MIR162a MI0023009

	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	GSM880653_apple_root	Total
TGGAGGCAGCGGTTTCATCGA	0.04	0.97	0	0	1.01
TGGAGGCAGCGGTTTCATC	0	0.54	0.55	0	1.09
TGGAGGCAGCGGTTTCATCGAT	0.46	0.86	1.1	0.34	2.76
TGGAGGCAGCGGTTTCATCGATC	2.55	0.54	0.18	2.96	6.23
GGAGGCAGCGGTTTCATCGA	0	1.18	0	0.05	1.23
GGAGGCAGCGGTTTCAT	0	0.11	0	0	0.11
GGAGGCAGCGGTTTCATCGATC	0.38	0.97	0.37	0.24	1.96
GGAGGCAGCGGTTTCATC	0	2.05	0.55	0	2.6
GGAGGCAGCGGTTTCATCG	0	0.54	0.18	0	0.72
GGAGGCAGCGGTTTCATCGAT	0	0.32	0	0	0.32
AGGCAGCGGTTTCATCGATCTG	0	0	0.18	0	0.18
TGTTTATGAGATTTGTGTGAA	0.04	0	0	0	0.04
AAAAACACAGAACATGAATCGG	0	0.22	0	0	0.22
AAAAACACAGAACATGAATCGG	0.08	0	0	0	0.08
AATCGGTCGATAAACCTCTGC	0	0	0	0.05	0.05
GGTCGATAAACCTCTGCATC	0	0	0.18	0	0.18
TCGATAAACCTCTGCAT	0.04	0.97	2.39	0	3.4
TCGATAAACCTCTGCATC	0	0.65	3.68	0.1	4.43
TCGATAAACCTCTGC	0.04	0.43	0.74	0	1.21
TCGATAAACCTCTGCATCCAG	180.58	255.5	662.7	59.69	1158.47
TCGATAAACCTCTGCATCCAGC	0.38	2.48	8.82	0.29	11.97
TCGATAAACCTCTGCATCCA	0.33	4.42	8.09	0.1	12.94
TCGATAAACCTCTGCATCC	0.17	1.29	2.57	0	4.03
TCGATAAACCTCTGCA	0.46	2.37	7.9	0.1	10.83
CGATAAACCTCTGCATCCA	0	0.11	0	0	0.11
CGATAAACCTCTGCATCCAGC	0.13	0.32	0.55	0	1
CGATAAACCTCTGCATCCAG	0.54	4.52	10.11	0.05	15.22
CGATAAACCTCTGCATCC	0	0	0.18	0	0.18
CGATAAACCTCTGCA	0	0	0.18	0	0.18
GATAAACCTCTGCATCCAG	0.42	0.75	1.29	0.19	2.65
GATAAACCTCTGCATCCA	0	0.11	0.18	0	0.29
ATAAACCTCTGCATCCA	0	0	0.18	0	0.18
ATAAACCTCTGCATCCAG	0	0.54	2.76	0	3.3
TAAACCTCTGCATCCA	0	0	0.55	0	0.55
TAAACCTCTGCATCCAG	0.29	1.51	4.41	0	6.21
TAAACCTCTGCATCCAGC	0	0	0.18	0	0.18
AACCTCTGCATCCAG	0.13	0.11	0.55	0	0.79
AACCTCTGCATCCAG	0	0.22	0.18	0	0.4
GCAGTGGAGGCAGCGGTTTCATCGATCTGTTTATGAGATTTGTGTGAAAAACACAGAACATGAATCGGTCGATAAACCTCTGCATCCAGCGC					

mdm-miR162a

mdm-miR162a*: GGAGGCAGCGGTTTCATCGATC

>mdm-miR162b MI0023010

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
TGGAGGCAGCGGTTTCATCGA	0.04	0	0.97	0	1.01
TGGAGGCAGCGGTTTCATCGAT	0.46	0.34	0.86	1.1	2.76
TGGAGGCAGCGGTTTCATC	0	0	0.54	0.55	1.09
TGGAGGCAGCGGTTTCATCGATC	2.55	2.96	0.54	0.18	6.23
GGAGGCAGCGGTTTCATCGATC	0.38	0.24	0.97	0.37	1.96
GGAGGCAGCGGTTTCATC	0	0	2.05	0.55	2.6
GGAGGCAGCGGTTTCATCGA	0	0.05	1.18	0	1.23
GGAGGCAGCGGTTTCATCG	0	0	0.54	0.18	0.72
GGAGGCAGCGGTTTCAT	0	0	0.11	0	0.11
GGAGGCAGCGGTTTCATCGAT	0	0	0.32	0	0.32
AGGCAGCGGTTTCATCGATCTG	0	0	0	0.18	0.18
TAAACACAGTTTCATGAATCGGT	0	0	0	0.55	0.55
AACACAGTTTCATGAATCGGTC	0	0	0.32	0	0.32
TCATGAATCGGTCGATAAACC	0.08	0	0	0	0.08
AATCGGTCGATAAACCCTCTGC	0	0.05	0	0	0.05
GGTCGATAAACCCTCTGCATC	0	0	0	0.18	0.18
TCGATAAACCCTCTGCAT	0.04	0	0.97	2.39	3.4
TCGATAAACCCTCTGC	0.04	0	0.43	0.74	1.21
TCGATAAACCCTCTGCA	0.46	0.1	2.37	7.9	10.83
TCGATAAACCCTCTGCATCCAGC	0.38	0.29	2.48	8.82	11.97
TCGATAAACCCTCTGCATCCA	0.33	0.1	4.42	8.09	12.94
TCGATAAACCCTCTGCATCCAG	180.58	59.69	255.5	662.7	1158.47
TCGATAAACCCTCTGCATCC	0.17	0	1.29	2.57	4.03
TCGATAAACCCTCTGCATC	0	0.1	0.65	3.68	4.43
CGATAAACCCTCTGCATCCAG	0.54	0.05	4.52	10.11	15.22
CGATAAACCCTCTGCATCCAGC	0.13	0	0.32	0.55	1
CGATAAACCCTCTGCATCCA	0	0	0.11	0	0.11
CGATAAACCCTCTGCA	0	0	0	0.18	0.18
CGATAAACCCTCTGCATCC	0	0	0	0.18	0.18
GATAAACCCTCTGCATCCAG	0.42	0.19	0.75	1.29	2.65
GATAAACCCTCTGCATCCA	0	0	0.11	0.18	0.29
ATAAACCCTCTGCATCCAG	0	0	0.54	2.76	3.3
ATAAACCCTCTGCATCCA	0	0	0	0.18	0.18
TAAACCCTCTGCATCCAG	0.29	0	1.51	4.41	6.21
TAAACCCTCTGCATCCA	0	0	0	0.55	0.55
TAAACCCTCTGCATCCAGC	0	0	0	0.18	0.18
AAACCCTCTGCATCCAG	0.13	0	0.11	0.55	0.79
AACCCTCTGCATCCAG	0	0	0.22	0.18	0.4

GCACATGGAGGCAGCGGTTTCATCGATCTGTTTATGAGATTTTGTGTGAGTAAACACAGTTTCATGAATCGGTCGATAAACCCTCTGCATCCAGCGC

mdm-miR162b

mdm-miR162b*: GGAGGCAGCGGTTTCATCGATC

>mdm-MIR164a MI0023011

	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
CATGCTGGAGAAGCAGGGCAC	0.15	0	0	0	0.15
TGGAGAAGCAGGGCACA	0.05	0	0.32	0	0.37
TGGAGAAGCAGGGCAC	0.05	14.33	61.72	0	76.1
TGGAGAAGCAGGGCA	0	0.55	5.39	0.04	5.98
TGGAGAAGCAGGGCACATGCC	6.85	0	0	0.29	7.14
TGGAGAAGCAGGGCACATGC	0	0	0	0.04	0.04
TGGAGAAGCAGGGCACATGCCA	0.1	0	0	0	0.1
GGAGAAGCAGGGCAC	0	0	0.75	0	0.75
GGAGAAGCAGGGCACATGCCAG	0.05	0	0	0	0.05
GGAGAAGCAGGGCACATGCCA	0.1	0	0	0	0.1
	CATGTGCTCTACCTCTCCAGC	0	0.55	0	0.66
	CATGTGCTCTACCTCTCC	0	0.18	0	0.29
AGGGAGAATGAGCCATGCTGGAGAAGCAGGGCACATGCCAGATATATCAGCATTGTCTGAGAATTTGCATGTGCTCTACCTCTCCAGCTGGACTCTCTCCCT					

mdm-miR164a

mdm-miR164a*: CATGTGCTCTACCTCTCCAGC

>mdm-miR164c MI0023013

TTGTTGGAGAAGCAGGGCAC
TTGGAGAAGCAGGGCACGTGC
TTGGAGAAGCAGGGCAC
TGGAGAAGCAGGGCA
TGGAGAAGCAGGGCACCG
TGGAGAAGCAGGGCACCT
TGGAGAAGCAGGGCACCTG
TGGAGAAGCAGGGCACCTGCA
TGGAGAAGCAGGGCAC
TGGAGAAGCAGGGCACGTCAA
TGGAGAAGCAGGGCACGTGC
TGGAGAAGCAGGGCACGTGAAA
GGAGAAGCAGGGCAC
GGAGAAGCAGGGCACGTGC
GGAGAAGCAGGGCACCTGCA
GGAGAAGCAGGGCACCT
GGAGAAGCAGGGCACCG
GGAGAAGCAGGGCACCTG
GAGAAGCAGGGCACCTGCA
AGAAGCAGGGCACCTGCA
GAAGCAGGGCACCTGCA
AAGCAGGGCACCTGCA
AGCAGGGCACCTGCA

CACGTGCTCCCCCTCTCCAAC
ACGTGCTCCCCCTCTCCAACA
CGTGTCTCCCCCTCTCCAAC

GGGTGAGACTCTTGTGGAGAAGCAGGGCACGTGCAACCCCAATTGGCTATGCTTCAAATGCGAGCGAATAAGTYYTTTGGACGTGCTCCCCCTCTCCAACACGGGTTCTCTCACCT

mdm-miR164c

mdm-miR164c*: CACGTGCTCCCCCTCTCCAAC

GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	GSM880653_apple_root	Total
0.04	0	0	0	0.04
0.17	0	0	0	0.17
0	0.11	0	0	0.11
0.04	5.39	0.55	0	5.98
0.25	2.69	0.18	0.34	3.46
0.04	7.11	4.23	0.15	11.53
0.67	2.15	0.55	1.41	4.78
523.15	312.15	73.69	643.09	1552.08
0	61.72	14.33	0.05	76.1
0.96	0.11	0.18	0.63	1.88
7.53	1.62	0.18	10.74	20.07
0.63	0	0	0.34	0.97
0	0.75	0	0	0.75
0	0.22	0	0.1	0.32
0.67	3.99	0.74	1.07	6.47
0	0.22	0	0	0.22
0	0.11	0	0	0.11
0	0.32	0	0	0.32
0.08	0.32	0.18	0.15	0.73
0	0.22	0	0.05	0.27
0.29	0.11	0	0.39	0.79
0.17	0	0	0.1	0.27
0	0	0	0.05	0.05
0	0.54	0.55	0	1.09
0	0	0.18	0	0.18
0	0	0.37	0	0.37

>mdm-MIR164d MI0023014

	GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880653_apple_root	Total
TTGGAGAAGCAGGGCAC	0.11	0	0	0	0.11
TTGGAGAAGCAGGGCACGTGC	0	0.17	0	0	0.17
TGGAGAAGCAGGGCACGTG	2.15	0.67	0.55	1.41	4.78
TGGAGAAGCAGGGCACGT	7.11	0.04	4.23	0.15	11.53
TGGAGAAGCAGGGCACG	2.69	0.25	0.18	0.34	3.46
TGGAGAAGCAGGGCA	5.39	0.04	0.55	0	5.98
TGGAGAAGCAGGGCACGTGCAAA	0	0.63	0	0.34	0.97
TGGAGAAGCAGGGCAC	61.72	0	14.33	0.05	76.1
TGGAGAAGCAGGGCACGTGCA	312.15	523.15	73.69	643.09	1552.08
TGGAGAAGCAGGGCACGTGCAA	0.11	0.96	0.18	0.63	1.88
TGGAGAAGCAGGGCACGTGC	1.62	7.53	0.18	10.74	20.07
GGAGAAGCAGGGCAC	0.75	0	0	0	0.75
GGAGAAGCAGGGCACGTG	0.32	0	0	0	0.32
GGAGAAGCAGGGCACGTGCA	3.99	0.67	0.74	1.07	6.47
GGAGAAGCAGGGCACGTGC	0.22	0	0	0.1	0.32
GGAGAAGCAGGGCACG	0.11	0	0	0	0.11
GGAGAAGCAGGGCACGT	0.22	0	0	0	0.22
GAGAAGCAGGGCACGTGCA	0.32	0.08	0.18	0.15	0.73
AGAAGCAGGGCACGTGCA	0.22	0	0	0.05	0.27
GAAGCAGGGCACGTGCA	0.11	0.29	0	0.39	0.79
AAGCAGGGCACGTGCA	0	0.17	0	0.1	0.27
AAGCAGGGCACGTGCAAAATTCTAG	0	0.04	0	0	0.04
AGCAGGGCACGTGCA	0	0	0	0.05	0.05
GCAGGGCACGTGCAAAATTCTAGCT	0	0.04	0	0.05	0.09
CACGTGCTCCCTTCTCCAAC	0.22	0	0.74	0	0.96
CAGTGTCCCTTCTCC	0	0	0.37	0	0.37
ACGTGCTCCCTTCTCCAACA	0	0	0.18	0	0.18
ACGTGCTCCCTTCTCCAAC	0	0	0.18	0	0.18
CGTGTCCCTTCTCCAAC	0	0	0.55	0	0.55
CGTGTCCCTTCTCCAAC	0	0	0.37	0	0.37
TGGGTGAGTAGCTCCTGTTGGAGAAGCAGGGCACGTGCAAAATTCTAGCTCAAGCACTTCCCTCGGGAGCTTAGCTTAAGATTTAACAAGCTTTGCAAGTGCTCCCTTCTCCAACAAGTTTCTCACCTCA					

mdm-miR164d

mdm-miR164d*: CACGTGCTCCCTTCTCCAAC

>mdm-miR164e MI0023015

ATGGAGAAGCAGGGCACCTGC
ATGGAGAAGCAGGGCACCTGCA
ATGGAGAAGCAGGGCACCG
TGGAGAAGCAGGGCACCTG
TGGAGAAGCAGGGCAC
TGGAGAAGCAGGGCACCTGCAT
TGGAGAAGCAGGGCACCTG
TGGAGAAGCAGGGCAC
TGGAGAAGCAGGGCACCG
TGGAGAAGCAGGGCACCTGCATT
TGGAGAAGCAGGGCACCTGCA
TGGAGAAGCAGGGCACCTGC
GGAGAAGCAGGGCACCTGCA
GGAGAAGCAGGGCACCTG
GGAGAAGCAGGGCACCTG
GGAGAAGCAGGGCACCG
GGAGAAGCAGGGCACCTGC
GGAGAAGCAGGGCAC
GGAGAAGCAGGGCACCTGCAT
GAGAAGCAGGGCACCTGCA
AGAAGCAGGGCACCTGCA
GAAGCAGGGCACCTGCA
AAGCAGGGCACCTGCA
AGCAGGGCACCTGCA
AGCAGGGCACCTGCATTCTAACT
AGGGCACCTGCATTCTAACTCA
AGGGCACCTGCATTCTAACTCAT
AGGGCACCTGCATTCTAACTC
CGTGCATTCTAACTCATT
CGTGCATTCTAACTCATTGCG
CGTGCATTCTAACTCATTG
CGTGCATTCTAACTCATTG

GSM880655_apple_fruit	GSM880653_apple_root	GSM880652_apple_leaf	GSM880654_apple_flower	Total
0.11	0	0	0	0.11
0	0.15	0.21	0	0.36
0.11	0	0	0	0.11
7.11	0.15	0.04	4.23	11.53
5.39	0	0.04	0.55	5.98
0	1.75	2.22	0.18	4.15
2.15	1.41	0.67	0.55	4.78
61.72	0.05	0	14.33	76.1
2.69	0.34	0.25	0.18	3.46
0.11	0.15	0.08	0	0.34
312.15	643.09	523.15	73.69	1552.08
1.62	10.74	7.53	0.18	20.07
3.99	1.07	0.67	0.74	6.47
0.32	0	0	0	0.32
0.22	0	0	0	0.22
0.11	0	0	0	0.11
0.22	0.1	0	0	0.32
0.75	0	0	0	0.75
0	0.05	0	0	0.05
0.32	0.15	0.08	0.18	0.73
0.22	0.05	0	0	0.27
0.11	0.39	0.29	0	0.79
0	0.1	0.17	0	0.27
0	0.05	0	0	0.05
0	0.05	0.33	0	0.38
0	0	0.04	0	0.04
0	0	0.04	0	0.04
0	0	0.04	0	0.04
0.43	0	0	0	0.43
0.22	0	0	0	0.22
0	0.05	0	0	0.05
0.32	0	0	0	0.32
0.11	0	0	0	0.11
0.54	0	0	0	0.54
0	0.1	0	0	0.1
0.22	0	0	0.55	0.77
0.97	0	0	2.76	3.73
0	0.05	0.04	0	0.09
7.97	0.1	0.29	8.27	16.63
0.11	0	0.04	0	0.15
0.22	0	0	0	0.22
0.22	0.05	0	0	0.27
0.11	0	0	0	0.11
0	0	0	0.37	0.37
0.11	0	0	0	0.11

TCCAGTGATGAGTTAGTTG
GATGAGTTAGTTGTTGATGTTG
TGAGTTAGTTGTTGATGTTG
TCATGTGCCCTCTTCCCCAT
CATGTGCCCTCTTCCCC
CATGTGCCCTCTTCCCCAT
CATGTGCCCTCTTCCCCATC
CATGTGCCCTCTTCCCCA
CATGTGCCCTCTTCCCC
ATGTGCCCTCTTCCCCATC
ATGTGCCCTCTTCCCC
TGTGCCCTCTTCCCCATC
CCCTCTTCCCCATC

mdm-miR164e

mdm-miR164e*: CATGTGCCCTCTTCCCCATC

>mdm-miR164f MI0023016

ATGGAGAAGCAGGGCACGTGC
ATGGAGAAGCAGGGCACGTGCA
ATGGAGAAGCAGGGCACG
TGGAGAAGCAGGGCACGT
TGGAGAAGCAGGGCA
TGGAGAAGCAGGGCACGTGCAT
TGGAGAAGCAGGGCACGTG
TGGAGAAGCAGGGCAC
TGGAGAAGCAGGGCACG
TGGAGAAGCAGGGCACGTGCATT
TGGAGAAGCAGGGCACGTGCA
TGGAGAAGCAGGGCACGTGC
GGAGAAGCAGGGCACGTGCA
GGAGAAGCAGGGCACGTGC
GGAGAAGCAGGGCACG
GGAGAAGCAGGGCACGT
GGAGAAGCAGGGCACGTGCAT
GAGAAGCAGGGCACGTGCA
AGAAGCAGGGCACGTGCA
GAAGCAGGGCACGTGCA
AGCAGGGCACGTGCA
AGCAGGGCACGTGCATTTCTAACT
AGCAGGGCACGTGCA
AGGGCACGTGCATTTCTAACTCAT
AGGGCACGTGCATTTCTAACTC
AGGGCACGTGCATTTCTAACTCA
CGTGCATTTCTAACTCATTC
CGTGCATTTCTAACTCAT
CGTGCATTTCTAACTCATTCG
CGTGCATTTCTAACTCATTCGA

GSM880655_apple_fruit	GSM880653_apple_root	GSM880652_apple_leaf	GSM880654_apple_flower	Total
0.11	0	0	0	0.11
0	0.15	0.21	0	0.36
0.11	0	0	0	0.11
7.11	0.15	0.04	4.23	11.53
5.39	0	0.04	0.55	5.98
0	1.75	0	2.22	4.15
2.15	1.41	0.67	0.55	4.78
61.72	0.05	0	14.33	76.1
2.69	0.34	0.25	0.18	3.46
0.11	0.15	0.08	0	0.34
312.15	643.09	523.15	73.69	1552.08
1.62	10.74	7.53	0.18	20.07
3.99	1.07	0.67	0.74	6.47
0.22	0.1	0	0	0.32
0.22	0	0	0	0.22
0.11	0	0	0	0.11
0.75	0	0	0	0.75
0.32	0	0	0	0.32
0	0.05	0	0	0.05
0.32	0.15	0.08	0.18	0.73
0.22	0.05	0	0	0.27
0.11	0.39	0.29	0	0.79
0	0.1	0.17	0	0.27
0	0.05	0.33	0	0.38
0	0.05	0	0	0.05
0	0	0.04	0	0.04
0	0	0.04	0	0.04
0	0.05	0.04	0	0.04
0	0	0	0	0.05
0.43	0	0	0	0.43
0.32	0	0	0	0.32
0	0	0.04	0	0.04
0.11	0	0	0	0.11
0.54	0	0	0	0.54
0	0.1	0	0	0.1
0.22	0	0	0.55	0.77
0.22	0	0	0	0.22
0.97	0	0	2.76	3.73
0.11	0	0.04	0	0.15
7.97	0.1	0.29	8.27	16.63
0	0.05	0.04	0	0.09
0.22	0.05	0	0	0.27
0.11	0	0	0	0.11
0	0	0	0.37	0.37
0.11	0	0	0	0.11

TCCAGTATGAGTTAGTTG
GATGAGTTAGTTGTTCAATGG
TGAGTTAGTTGTTCAATGGCC
TCATGTGCCCTCTTCCCAT
CATGTGCCCTCTTCCC
CATGTGCCCTCTTCCC
CATGTGCCCTCTTCCC
CATGTGCCCTCTTCCC
CATGTGCCCTCTTCCC
ATGTGCCCTCTTCCC
ATGTGCCCTCTTCCC
TGTGCCCTCTTCCC
CATGTGCCCTCTTCCC

GATGGAGAAGCAGGGCACGTGCATTTCTAACTCATTCGATCGGTATAGTATATATATGTATGTATGCTTTTTATTAGCAGTGGGAATTTATTACAAGTTTATATGTGTCTCATATCCAGTATGAGTTAGTTGTTCAATGTGCCCTCTTCCC
mdm-miR164f

mdm-miR164f*: CATGTGCCCTCTTCCCATC

>mdm-MIR166b MI0023018

GGAATGCTGTCTGGTTCGAGA
 GGAATGCTGTCTGGTTC
 GGAATGCTGTCTGGT

	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	GSM880654_apple_flower	Total
	0.08	0	0	0	0.08
	0	0.11	0	0	0.11
	0	0.11	0	0	0.11
	0.04	0	0	0	0.04
GAATGATCTCGGACCAGGCTTCAT	0	0	0	0	0
GAATGATCTCGGACCAGGCT	0	0	0.05	0	0.05
AATGATCTCGGACCAGGCT	0.04	0	0	0	0.04
ATCTCGGACCAGGCTTCATTCCCC	0.13	0	0.05	0	0.18
ATCTCGGACCAGGCTTCATTCC	0.08	0.11	0	0	0.19
TCTCGGACCAGGCTTCATTCC	1.34	0.43	0.53	0	2.3
TCTCGGACCAGGCTTCATTCCCC	0.21	0	0	0	0.21
TCTCGGACCAGGCTTCATTCCC	0.04	0	0	0	0.04
TCTCGGACCAGGCTTCATTCC	0	0	0.05	0	0.05
CTCGGACCAGGCTTCATTCC	0	0	0.15	0	0.15
CTCGGACCAGGCTTCATTCCCC	4.44	0	1.36	0	5.8
CTCGGACCAGGCTTCATTCCC	2.43	0	5.15	0	7.58
TCGGACCAGGCTTCATTCC	51.95	0.97	28	0.37	81.29
TCGGACCAGGCTTCATTCCCCCCC	0.29	0	0.05	0.18	0.52
TCGGACCAGGCTTCATT	1	2.8	0.73	4.23	8.76
TCGGACCAGGCTTCA	0.13	0	0.15	0.18	0.46
TCGGACCAGGCTTCAT	4.56	0.11	1.26	0	5.93
TCGGACCAGGCTTCATTCCCC	13848.6	283.82	7382.09	196.46	21710.97
TCGGACCAGGCTTCATTCCCCC	3.68	0.65	1.46	0.74	6.53
TCGGACCAGGCTTCATTCC	8.96	6.89	5.69	7.72	29.26
TCGGACCAGGCTTCATTCCC	94.52	4.74	50.45	3.31	153.02
TCGGACCAGGCTTCATTCCCCCA	0.04	0	0	0	0.04
CGGACCAGGCTTCATTCCCC	0.17	0	0.1	0	0.27
CGGACCAGGCTTCATTCC	0.08	0	0.05	0	0.13
CGGACCAGGCTTCATTCCCC	14.4	2.91	6.46	1.84	25.61
CGGACCAGGCTTCATTCCC	0.21	0	0.19	0	0.4
CGGACCAGGCTTCATTCC	0	0.11	0.05	0	0.16
GGACCAGGCTTCATTCC	0.08	0	0.1	0	0.18
GGACCAGGCTTCATTCC	0.04	0	0.1	0	0.14
GGACCAGGCTTCATTCCCC	25.62	0.54	11.81	0.37	38.34
GGACCAGGCTTCATTCCC	0.38	0	0.29	0	0.67
GACCAGGCTTCATTCCCC	0.67	0.43	0.58	0.74	2.42
GACCAGGCTTCATTCC	0	0	0.05	0	0.05
GACCAGGCTTCATTCCC	0	0	0.05	0	0.05
ACCAGGCTTCATTCCC	0	0.32	0	0	0.32
ACCAGGCTTCATTCC	0	0	0.05	0	0.05
ACCAGGCTTCATTCCCC	7.33	4.85	4.37	5.15	21.7
CCAGGCTTCATTCCCC	1.63	0.97	0.87	2.02	5.49
CCAGGCTTCATTCCC	0	0.32	0	0	0.32
CCAGGCTTCATTCCCCC	0	0	0	0.18	0.18
CAGGCTTCATTCCCC	0.21	0	0.05	0.37	0.63

GTTGTGGGGAATGCTGTCTGGTTCGAGACCAATTCCTCTGAACAAGAACATGAACATRGAATGATCTCGGACCAGGCTTCATTCCCCCAAC

mdm-miR166b

mdm-miR166b*: GGAATGCTGTCTGGTTCGAGA

>mdm-miR166c MI0023019

	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	GSM880653_apple_root	Total
AGTTGTGGGGAATGTTGTCTGGTT	0.04	0	0	0	0.04
GGAATGTTGTCTGGTTCGAGA	0.13	1.51	0	0.15	1.79
GGAATGTTGTCTGGTT	0	0	0.18	0	0.18
GGAATGTTGTCTGGTTCC	0	0.11	0	0	0.11
GAATGTTGTCTGGTTCGAGAT	0	0.22	0	0	0.22
AATGTTGTCTGGTTCA	0	0	0.18	0	0.18
AATGTTGTCTGGTTCC	0	0.11	0	0	0.11
AATGTTGTCTGGTTCGAGATTTT	0	0	0	0.05	0.05
AATGTTGTCTGGTTCGAGAT	0.04	0.97	0	0	0.97
GTTGTCTGGTTCGAGA	0	0	0	0	0.04
TCTGGTTCGAGATCTTTCAAT	0	0	0	0.1	0.1
TCAATAAAAACCTTGAAGATCGTTA	0.04	0	0	0	0.04
TCAATAAAAACCTTGAAGATCGTTAT	0.13	0	0	0.44	0.57
CAATAAAAACCTTGAAGATCGTTATC	0	0	0	0.05	0.05
AATAAAAACCTTGAAGATCGTTAT	0.04	0	0	0.15	0.19
AATAAAAACCTTGAAGATCGTTATCA	0.13	0	0	0.68	0.81
AATAAAAACCTTGAAGATCGTTATC	0	0	0	0.05	0.05
ATAAAAACCTTGAAGATCGTTATCAT	0.04	0	0	0.05	0.09
ATAAAAACCTTGAAGATCGTTATCA	0.04	0	0	0.05	0.09
ATAAAAACCTTGAAGATCGTTAT	0.04	0	0	0	0.04
TAAAAACCTTGAAGATCGTTAT	0	0	0	0.05	0.05
ATCATCTGAATGATCTCGGACCAG	0	0	0	0.1	0.1
ATCTGAATGATCTCGGACCAGGCT	0.13	0	0	0.53	0.66
ATCTGAATGATCTCGGACCAGGC	0	0	0	0.05	0.05
TCTGAATGATCTCGGACCAGG	0	0	0	0.05	0.05
TGAATGATCTCGGACCAGGCT	0.08	0	0	0	0.08
GAATGATCTCGGACCAGGCTCAT	0.04	0	0	0	0.04
GAATGATCTCGGACCAGGCT	0	0	0	0.05	0.05
AATGATCTCGGACCAGGCT	0.04	0	0	0	0.04
ATCTCGGACCAGGCTTCATTCCCC	0.13	0	0	0.05	0.18
ATCTCGGACCAGGCTTCATTCC	0.08	0.11	0	0	0.19
TCTCGGACCAGGCTTCATTCCC	1.34	0.43	0	0.53	2.3
TCTCGGACCAGGCTTCATTCC	0	0	0	0.05	0.05
TCTCGGACCAGGCTTCATTCCCC	0.21	0	0	0	0.21
TCTCGGACCAGGCTTCATTCCC	0.04	0	0	0	0.04
CTCGGACCAGGCTTCATTCC	0	0	0	0.15	0.15
CTCGGACCAGGCTTCATTCCC	2.43	0	0	5.15	7.58
CTCGGACCAGGCTTCATTCCCC	4.44	0	0	1.36	5.8
CTCGGACCAGGCTTCATTCCCCCT	0.04	0	0	0.05	0.09
TCGGACCAGGCTTCATTCCCCCTC	0.21	0	0	0.1	0.31
TCGGACCAGGCTTCATTCC	8.96	6.89	7.72	5.69	29.26
TCGGACCAGGCTTCATTCCCC	13848.6	283.82	196.46	7382.09	21710.97
TCGGACCAGGCTTCATCA	0.13	0	0.18	0.15	0.46
TCGGACCAGGCTTCAT	4.56	0.11	0	1.26	5.93
TCGGACCAGGCTTCATTCC	51.95	0.97	0.37	28	81.29
TCGGACCAGGCTTCATT	1	2.8	4.23	0.73	8.76
TCGGACCAGGCTTCATTCCCCCT	23.86	0	0.18	13.85	37.89
TCGGACCAGGCTTCATTCCC	94.52	4.74	3.31	50.45	153.02
CGGACCAGGCTTCATTCCCC	14.4	2.91	1.84	6.46	25.61
CGGACCAGGCTTCATTCCC	0.21	0	0	0.19	0.4
CGGACCAGGCTTCATTCC	0.08	0	0	0.05	0.13
CGGACCAGGCTTCATTCCCCCT	0.5	0	0	0.49	0.99
CGGACCAGGCTTCATTCC	0	0.11	0	0.05	0.16
GGACCAGGCTTCATTCCCC	25.62	0.54	0.37	11.81	38.34
GGACCAGGCTTCATTCCC	0.38	0	0	0.29	0.67
GGACCAGGCTTCATTCCCCCT	0.08	0	0	0	0.08
GGACCAGGCTTCATTCC	0.08	0	0	0.1	0.18
GGACCAGGCTTCATTCC	0.04	0	0	0.1	0.14
GACCAGGCTTCATTCCC	0	0	0	0.05	0.05
GACCAGGCTTCATTCCCC	0.67	0.43	0.74	0.58	2.42
GACCAGGCTTCATTCC	0	0	0	0.05	0.05
ACCAGGCTTCATTCCCC	7.33	4.85	5.15	4.37	21.7
ACCAGGCTTCATTCCC	0	0.32	0	0	0.32
ACCAGGCTTCATTCC	0	0	0	0.05	0.05
CCAGGCTTCATTCCC	0	0.32	0	0	0.32
CCAGGCTTCATTCCCC	1.63	0.97	2.02	0.87	5.49
CAGGCTTCATTCCCC	0.21	0	0.37	0.05	0.63
AGTTGTGGGGAATGTTGTCTGGTTCGAGATCTTTCAATAAAAACCTTGAAGATCGTTATCATCTGAATGATCTCGGACCAGGCTTCATTCCCCCTCAACT					

mdm-miR166c

mdm-miR166c*: GGAATGTTGTCTGGTTCGAGA

>mdm-miR166d MI0023020

TGAGGGGAATGTTGGCT
GGAAATGTTGTTGGCTCGAG
GGAATGTTGTTGGC
GGAATGTTGTTGGCTC
GGAATGTTGTTGGCTCG
GGAATGTTGTTGGCTCGAGGCC
GGAATGTTGTTGGCTCGA
GGAATGTTGTTGGCTCGAGG
GGAATGTTGTTGGCTCGAG
GGAATGTTGTTGGCT
GAATGTTGTTGGCTCGAGGC
TTGTTGGCTCGAGG

CAGTTGAGAAAGATCA

TTAACGACCTCGGACGAGCT
TAACGACCTCGGACGAGCTTCAT
AACGACCTCGGACGAGCTT
AACGACCTCGGACGAGCTTCATT
GACCTCGGACGAGCTTCATCC
ACCTCGGACGAGCTTCATCCCC
CCTCGGACGAGCTTCATCCCC
CCTCGGACGAGCTTCATCCC
CCTCGGACGAGCTTCATCCC
CTCGGACGAGCTTCATCCC
CTCGGACGAGCTTCATCCCC
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GACGAGCTTCATCCCC
ACCGAGCTTCATCCCC
ACCAGGCTTCATCCC
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CCAGGCTTCATCCCC
CCAGGCTTCATCCCC
CCAGGCTTCATCCCCCAAT
CAGGCTTCATCCCC
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0.05
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0.1
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0
0
0.05
0
0
0
0.05
0.05
0.29
5.15
1.36
0.15
28
0.15
0.05
1.46
5.69
1.26
50.45
7382.09
0.73
0
0.05
6.46
0.19
0.1
0.05
0.29
0.1
0.05
11.81
0.1
0.58
0.05
0.05
4.37
0
0.05
0
0
0.87
0.05
0.05

GSM880653_apple_root	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880655_apple_fruit	Total
0.05	0	0	0	0.05
0	0.04	0	0	0.04
0	0.04	1.47	1.29	2.8
0	0	0.18	0.22	0.4
0.05	0	0.92	0.75	1.72
0	0.04	0.18	0	0.22
0.05	0.04	0	0	0.09
3.55	7.91	0.37	0.22	12.05
0.1	0.17	0	0	0.27
0	0	0.55	0.65	1.2
0.15	0.04	0	0	0.19
0	0	0	0.11	0.11
0	0	0.18	0	0.18
0	0.04	0	0	0.04
0	0.04	0	0	0.04
0	0.08	0	0	0.08
0.05	0	0	0	0.05
0	0.04	0	0	0.04
0.05	0	0	0	0.05
0.1	0.04	0	0	0.14
0.29	0.63	0	0	0.92
5.15	2.43	0	0	7.58
1.36	4.44	0	0	5.8
0.15	0	0	0	0.15
28	51.95	0.37	0.97	81.29
0.15	0.13	0.18	0	0.46
0.05	0.29	0.18	0	0.52
1.46	3.68	0.74	0.65	6.53
5.69	8.96	7.72	6.89	29.26
1.26	4.56	0	0.11	5.93
50.45	94.52	3.31	4.74	153.02
7382.09	13848.6	196.46	283.82	21710.97
0.73	1	4.23	2.8	8.76
0	0.04	0	0	0.04
0.05	0	0	0.11	0.16
6.46	14.4	1.84	2.91	25.61
0.19	0.21	0	0	0.4
0.1	0.17	0	0	0.27
0.05	0.08	0	0	0.13
0.29	0.38	0	0	0.67
0.1	0.04	0	0	0.14
11.81	25.62	0.37	0.54	38.34
0.1	0.08	0	0	0.18
0.58	0.67	0.74	0.43	2.42
0.05	0	0	0	0.05
0.05	0	0	0	0.05
4.37	7.33	5.15	4.85	21.7
0	0	0	0.32	0.32
0.05	0	0	0	0.05
0	0	0	0.32	0.32
0	0	0.18	0	0.18
0.87	1.63	2.02	0.97	5.49
0.05	0	0	0	0.05
0.05	0.21	0.37	0	0.63

GGTTATTGAGGGGAATGTTGTTGGCTCGAGGCCCTAGCTAGATCTATGATCTCCATCTCAATTGGCGACAATTTAAACCACCAACCTTAAAAAATTACAGTACCAGTTGAGAAAGATCATCGATTCTACGTTTAAACGACCTCGGACGAGCTTCATCCCCCAATTACT

mdm-miR166d

mdm-miR166d*: GGAATGTTGTTGGCTCGAGG

>mdm-miR166e MI0023021

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	Total
TTGAGGGAAATGTTGTCTGGTTC	0.05	0	0	0	0.05
TTGAGGGAAATGTTGTCTGGT	0	0.04	0	0	0.04
TGAGGGAAATGTTGTCTGGTT	0.05	0.13	0	0	0.18
AGGGAAATGTTGTCTGGTTCC	0.15	0.08	0	0	0.23
AGGGAAATGTTGTCTGGTTCCGAGA	0	0.08	0	0	0.08
GAAATGTTGTCTGGT	0.05	0.04	0	0	0.09
GAAATGTTGTCTGGTTCCGAGA	0.97	1.63	1.08	0.37	4.05
GAAATGTTGTCTGGTTCCGAGAT	0	0.04	0	0	0.04
GAAATGTTGTCTGGTTCC	0	0	0	0.55	0.55
AAATGTTGTCTGGTTCCGA	0	0	0.22	0	0.22
AAATGTTGTCTGGTTCCGAGATC	0.19	0	0.11	0	0.3
AAATGTTGTCTGGTTCCGAGA	0.1	0.42	0.11	0	0.63
AAATGTTGTCTGGTT	0	0	0.11	0	0.11
AAATGTTGTCTGGTTCCGAGATCTT	0	0.08	0	0	0.08
AAATGTTGTCTGGTTCC	0	0	0.43	0.55	0.98
AAATGTTGTCTGGTTCCGAGAT	0.49	0.8	6.68	0	7.97
AAATGTTGTCTGGTTCCGAG	0	0	0.11	0	0.11
AATGTTGTCTGGTTCC	0	0	0.11	0	0.11
AATGTTGTCTGGTTCCGAGAT	0	0	0.97	0	0.97
AATGTTGTCTGGTTCCGA	0	0	0	0.18	0.18
AATGTTGTCTGGTTCCGAGATCTTT	0.05	0	0	0	0.05
GTTGTCTGGTTCCGAGA	0	0.04	0	0	0.04
TCTGGTTCCGAGATCTTTCACT	0.05	0.33	0	0	0.38
AGTGAAGCTTGGATATTGTCACTCA	0	0.08	0	0	0.08
ATCTGAATGATTTCCGGACCAGGCT	0	0.04	0	0	0.04
TGAATGATTTCCGGACCAGGCT	0	0.42	0	0	0.42
AATGATTTCCGGACCAGGCTT	0	0.04	0	0	0.04
AATGATTTCCGGACCAGGCTTCATT	0	0.04	0	0	0.04
ATGATTTCCGGACCAGGCTTCATTCC	0	0.17	0	0	0.17
TGATTTCCGGACCAGGCTTCATTCC	0	0.04	0	0	0.04
TGATTTCCGGACCAGGCTTCATT	0.05	0.04	0	0	0.04
GATTTCCGGACCAGGCTTCATTCC	0	0	0	0	0.05
GATTTCCGGACCAGGCTTCATTCC	0	0.04	0	0	0.04
ATTTCCGGACCAGGCTTCATTCC	0.05	0.04	0	0	0.09
ATTTCCGGACCAGGCTTCATTCC	0	0.08	0	0	0.08
ATTTCCGGACCAGGCTTCATTCC	0	0.04	0	0	0.04
TTTCCGGACCAGGCTTCATTCC	0.05	0	0	0	0.05
TTTCCGGACCAGGCTTCATTCC	0.24	0.25	0	0	0.49
TTTCCGGACCAGGCTTCATTCC	1.51	2.76	0	0	4.27
TTTCCGGACCAGGCTTCATTCC	0.29	0.42	0	0	0.71
TTTCCGGACCAGGCTTCATTCC	0	0.08	0	0.18	0.26
TTTCCGGACCAGGCTTCATTCC	14.48	26.2	0.54	0	41.22
TTCCGGACCAGGCTTCATTCC	0.05	0.5	0	0	0.55
TTCCGGACCAGGCTTCATTCC	0.05	0.54	0	0	0.59
TTCCGGACCAGGCTTCATTCC	3.16	2.76	0.22	0	6.14
TTCCGGACCAGGCTTCATT	0	0	0.22	0	0.22
TCCGGACCAGGCTTCATTCC	5.69	8.96	6.89	7.72	29.26
TCCGGACCAGGCTTCATTCC	7382.09	13848.6	283.82	196.46	21710.97
TCCGGACCAGGCTTCATT	0.73	1	2.8	4.23	8.76
TCCGGACCAGGCTTCATTCC	50.45	94.52	4.74	3.31	153.02
TCCGGACCAGGCTTCATTCC	28	51.95	0.97	0.37	81.29
TCCGGACCAGGCTTCATTCC	13.85	23.86	0	0.18	37.89
TCCGGACCAGGCTTCATT	1.26	4.56	0.11	0	5.93
TCCGGACCAGGCTTCA	0.15	0.13	0	0.18	0.46
TCCGGACCAGGCTTCATTCC	0.1	0.21	0	0	0.31
TCCGGACCAGGCTTCATTCC	0.49	0.5	0	0	0.99
TCCGGACCAGGCTTCATTCC	6.46	14.4	2.91	1.84	25.61
TCCGGACCAGGCTTCATTCC	0.05	0	0.11	0	0.16
TCCGGACCAGGCTTCATTCC	0.05	0.08	0	0	0.13
TCCGGACCAGGCTTCATTCC	0.19	0.21	0	0	0.4
TCCGGACCAGGCTTCATTCC	0.1	0.08	0	0	0.18
TCCGGACCAGGCTTCATTCC	0.1	0.04	0	0	0.14
TCCGGACCAGGCTTCATTCC	11.81	25.62	0.54	0.37	38.34
TCCGGACCAGGCTTCATTCC	0.29	0.38	0	0	0.67
TCCGGACCAGGCTTCATTCC	0	0.08	0	0	0.08
TCCGGACCAGGCTTCATTCC	0.58	0.67	0.43	0.74	2.42
TCCGGACCAGGCTTCATTCC	0.05	0	0	0	0.05
TCCGGACCAGGCTTCATTCC	0.05	0	0	0	0.05
TCCGGACCAGGCTTCATTCC	0	0	0.32	0	0.32
TCCGGACCAGGCTTCATTCC	4.37	7.33	4.85	5.15	21.7
TCCGGACCAGGCTTCATTCC	0.05	0	0	0	0.05
TCCGGACCAGGCTTCATTCC	0.87	1.63	0.97	2.02	5.49
TCCGGACCAGGCTTCATTCC	0	0	0.32	0	0.32
TCCGGACCAGGCTTCATTCC	0.05	0.21	0	0.37	0.63

AGTTGAGGGAAATGTTGTCTGGTTCCGAGATCTTTCACTGAAGCTTGGATATTGTCACTCACTGAATGATTTCCGGACCAGGCTTCATTCC

mdm-miR166e

mdm-miR166e*: GAAATGTTGTCTGGTTCCGAGA

>mdm-MIR166f MI0023022

GGAATGCTGTCTGGTTCGAGA
GGAATGCTGTCTGGTTC
GGAATGCTGTCTGGT

	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	GSM880654_apple_flower	Total
AATGATTTTCGGACCAAGGCTTCATT	0.04	0	0	0	0.04
AATGATTTTCGGACCAAGGCTTC	0.04	0	0	0	0.04
ATGATTTTCGGACCAAGGCTTCATTC	0.17	0	0	0	0.17
TGATTTTCGGACCAAGGCTTCATT	0.04	0	0	0	0.04
TGATTTTCGGACCAAGGCTTCATTCC	0.04	0	0	0	0.04
GATTTTCGGACCAAGGCTTCATTCCC	0.04	0	0	0	0.04
GATTTTCGGACCAAGGCTTCATTCC	0	0	0.05	0	0.05
ATTTTCGGACCAAGGCTTCATTCCC	0.04	0	0	0	0.04
ATTTTCGGACCAAGGCTTCATTCC	0.04	0	0.05	0	0.09
ATTTTCGGACCAAGGCTTCATTCCC	0.08	0	0	0	0.08
TTTCGGACCAAGGCTTCATTCC	2.76	0	1.51	0	4.27
TTTCGGACCAAGGCTTCATTCCC	0.25	0	0.24	0	0.49
TTTCGGACCAAGGCTTCATTCC	0.08	0	0	0.18	0.26
TTTCGGACCAAGGCTTCATTCCC	0.42	0	0.29	0	0.71
TTTCGGACCAAGGCTTCATT	0	0.22	0	0	0.22
TTTCGGACCAAGGCTTCATTCC	2.76	0.22	3.16	0	6.14
TTTCGGACCAAGGCTTCATTCCC	26.2	0.54	14.48	0	41.22
TTTCGGACCAAGGCTTCATTCCC	0.5	0	0.05	0	0.55
TTTCGGACCAAGGCTTCATTCC	0.54	0	0.05	0	0.59
TCGGACCAAGGCTTCA	0.13	0	0.15	0.18	0.46
TCGGACCAAGGCTTCATTCCCCCT	0.04	0	0.05	0	0.09
TCGGACCAAGGCTTCATT	4.56	0.11	1.26	0	5.93
TCGGACCAAGGCTTCATT	1	2.8	0.73	4.23	8.76
TCGGACCAAGGCTTCATTCCC	94.52	4.74	50.45	3.31	153.02
TCGGACCAAGGCTTCATTCC	8.96	6.89	5.69	7.72	29.26
TCGGACCAAGGCTTCATTCCC	13848.6	283.82	7382.09	196.46	21710.97
TCGGACCAAGGCTTCATTCCC	3.68	0.65	1.46	0.74	6.53
TCGGACCAAGGCTTCATTCC	51.95	0.97	28	0.37	81.29
CGGACCAAGGCTTCATTCC	0.08	0	0.05	0	0.13
CGGACCAAGGCTTCATTCC	0	0.11	0.05	0	0.16
CGGACCAAGGCTTCATTCCC	14.4	2.91	6.46	1.84	25.61
CGGACCAAGGCTTCATTCCC	0.17	0	0.1	0	0.27
CGGACCAAGGCTTCATTCCC	0.21	0	0.19	0	0.4
GGACCAAGGCTTCATTCCC	0.38	0	0.29	0	0.67
GGACCAAGGCTTCATTCCC	25.62	0.54	11.81	0.37	38.34
GGACCAAGGCTTCATTCC	0.04	0	0.1	0	0.14
GGACCAAGGCTTCATTCC	0.08	0	0.1	0	0.18
GACCAGGCTTCATTCCC	0.67	0.43	0.58	0.74	2.42
GACCAGGCTTCATTCCC	0	0	0.05	0	0.05
GACCAGGCTTCATTCC	0	0	0.05	0	0.05
ACCAGGCTTCATTCCC	0	0.32	0	0	0.32
ACCAGGCTTCATTCC	0	0	0.05	0	0.05
ACCAGGCTTCATTCCC	7.33	4.85	4.37	5.15	21.7
CCAGGCTTCATTCCC	1.63	0.97	0.87	2.02	5.49
CCAGGCTTCATTCC	0	0.32	0	0	0.32
CAGGCTTCATTCCC	0.21	0	0.05	0.37	0.63

GTGTTGAGGGGAATGCTGTCTGGTTCGAGACCAATTCCTTTGAAGCAAAGAATGAACATCGAATGATTTTCGGACCAAGGCTTCATTCCCCTAACAC

mdm-miR166f

mdm-miR166f*: GGAATGCTGTCTGGTTCGAGA

>mdm-miR166g MI0023023

TGAGGGGAATGTTGCTGGCT
GAGGGGAATGTTGCTGGCTC
AGGGGAATGTTGCTGGCTCGAGG
AGGGGAATGTTGCTGGCTCGAG
GGGGAATGTTGCTGGCTCGA
GGGAATGTTGCTGGCTCGAG
GGAATGTTGCTGGCTC
GGAATGTTGCTGGCTCGAGG
GGAATGTTGCTGGCTC
GGAATGTTGCTGGCTCGAGGAC
GGAATGTTGCTGGCTCG
GGAATGTTGCTGGCTCGA
GGAATGTTGCTGGCTCGAGGACA
GGAATGTTGCTGGCTC
GGAATGTTGCTGGCTCGAGG
GGAATGTTGCTGGCTCGAG
GAAATGTTGCTGGCTCGAGG
GAAATGTTGCTGGCTC
GAAATGTTGCTGGCTCGAG
GAAATGTTGCTGGCTCGA
GAAATGTTGCTGGCTCGAGGAC
GAAATGTTGCTGGCTCGAGG
AAATGTTGCTGGCTCGAGGACA
AATGTTGCTGGCTCG
AATGTTGCTGGCTCGAGG
ATGTTGCTGGCTCGAGG
TGTGTTGCTGGCTCGAGG
GTGTTGCTGGCTCGAGG
TCTGGCTCGAGGACACTTTCCT

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880655_apple_fruit	Total
	0.05	0	0	0	0.05
	0	0.04	0	0	0.04
	0.58	0.04	0	0	0.62
	0	0.04	0	0	0.04
	0.05	0	0	0	0.05
	0.05	0	0	0	0.05
	0.1	0.08	0.37	2.37	2.92
	108.1	183.89	0.18	1.18	293.35
	0.05	0	0.37	1.51	1.93
	0.29	0.17	0	0	0.46
	0	0.08	0	0.86	1.49
	0.15	0.13	0	0	0.28
	0.44	0.59	0	0	1.03
	0.29	0.96	0.18	0.43	1.86
	1.85	1.97	0	0	3.82
	2.09	1.34	0	0	3.43
	3.55	1.88	0.37	0	5.8
	0	0.04	0	0	0.04
	0.05	0	0	0	0.05
	0.1	0	0	0	0.1
	0.19	0	0	0	0.19
	1.31	0.54	0	0	1.85
	0	0.04	0	0	0.04
	0	0	0	0.11	0.11
	0.05	0	0	0	0.05
	0	0.08	0	0	0.08
	0.15	0	0	0	0.15
	0	0.04	0	0.11	0.15
	0	0.04	0	0	0.04
	0	0.04	0	0	0.04
	0	0.13	0	0	0.13
	0.05	0.04	0	0	0.09
	0.05	0	0	0	0.05
	0.24	0.13	0.18	0	0.55
	1.56	0.59	0.37	0.22	2.74
	50.45	94.52	3.31	4.74	153.02
	5.69	8.96	7.72	6.89	29.26
	28	51.95	0.37	0.97	81.29
	0.05	0.29	0.18	0	0.52
	0.15	0.13	0.18	0	0.46
	7382.09	13848.6	196.46	283.82	21710.97
	0.73	1	4.23	2.8	8.76
	1.46	3.68	0.74	0.65	6.53
	1.26	4.56	0	0.11	5.93
	0	0.04	0	0	0.04
	0.19	0.21	0	0	0.4
	0.1	0.17	0	0	0.27
	0.05	0.08	0	0	0.13
	6.46	14.4	1.84	2.91	25.61
	0.05	0	0	0.11	0.16
	11.81	25.62	0.37	0.54	38.34
	0.29	0.38	0	0	0.67
	0.1	0.08	0	0	0.18
	0.1	0.04	0	0	0.14
	0.58	0.67	0.74	0.43	2.42
	0.05	0	0	0	0.05
	0.05	0	0	0	0.05
	0	0	0	0.32	0.32
	0.05	0	0	0	0.05
	4.37	7.33	5.15	4.85	21.7
	0	0	0.18	0	0.18
	0.87	1.63	2.02	0.97	5.49
	0.15	0	0	0.32	0.32
	0.05	0.21	0.37	0	0.63

TTGAGGGGAATGTTGCTGGCTCGAGGACACTTTCCTTGATCTATAATCTAGATCAACGGTTATATACCTATACATATATCTATATATGTTGTTGTTATATGTTGTTGTTATCATCTGCATACATAGATGATCAGGTTAAGTGTGCTGGACAGGCTTCATCCCCCAA

mdm-miR166g

mdm-miR166g*: GGAATGTTGCTGGCTCGAGG

>mdm-miR166i MI0023025

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	Total
TTGAGGGAAATGTTGTCTGGTTC	0.05	0	0	0	0.05
TTGAGGGAAATGTTGTCTGGT	0	0.04	0	0	0.04
TGAGGGAAATGTTGTCTGGTT	0.05	0.13	0	0	0.18
AGGGAAATGTTGTCTGGTTCC	0.15	0.08	0	0	0.23
AGGGAAATGTTGTCTGGTTCCGAGA	0	0.08	0	0	0.08
GAAATGTTGTCTGGT	0.05	0.04	0	0	0.09
GAAATGTTGTCTGGTTCCGAGA	0.97	1.63	1.08	0.37	4.05
GAAATGTTGTCTGGTTCCGAGAT	0	0.04	0	0	0.04
GAAATGTTGTCTGGTTCC	0	0	0	0.55	0.55
AAATGTTGTCTGGTTCCGA	0	0	0.22	0	0.22
AAATGTTGTCTGGTTCCGAGATC	0.19	0	0.11	0	0.3
AAATGTTGTCTGGTTCCGAGA	0.1	0.42	0.11	0	0.63
AAATGTTGTCTGGTT	0	0.11	0.11	0	0.11
AAATGTTGTCTGGTTCCGAGATCTT	0	0.08	0	0	0.08
AAATGTTGTCTGGTTCC	0	0	0.43	0.55	0.98
AAATGTTGTCTGGTTCCGAGAT	0.49	0.8	6.68	0	7.97
AAATGTTGTCTGGTTCCGAG	0	0	0.11	0	0.11
AATGTTGTCTGGTTCC	0	0	0.11	0	0.11
AATGTTGTCTGGTTCCGAGAT	0	0	0.97	0	0.97
AATGTTGTCTGGTTCCGA	0	0	0	0.18	0.18
AATGTTGTCTGGTTCCGAGATCTTT	0.05	0	0	0	0.05
GTTGTCTGGTTCCGAGA	0	0.04	0	0	0.04
TCTGGTTCCGAGATCTTTCACT	0.05	0.33	0	0	0.38
AGTGAAGCTTGGATATTGTCACTCA	0	0.08	0	0	0.08
ATCTGAATGATTTCCGGACCAGGCT	0	0.04	0	0	0.04
TGAATGATTTCCGGACCAGGCT	0	0.42	0	0	0.42
AATGATTTCCGGACCAGGCTT	0	0.04	0	0	0.04
AATGATTTCCGGACCAGGCTTCATT	0	0.04	0	0	0.04
ATGATTTCCGGACCAGGCTTCATTC	0	0.17	0	0	0.17
TGATTTCCGGACCAGGCTTCATTCC	0	0.04	0	0	0.04
TGATTTCCGGACCAGGCTTCATT	0	0.04	0	0	0.04
GATTTCCGGACCAGGCTTCATTCC	0.05	0	0	0	0.05
GATTTCCGGACCAGGCTTCATTCC	0	0.04	0	0	0.04
ATTTCCGGACCAGGCTTCATTC	0.05	0.04	0	0	0.09
ATTTCCGGACCAGGCTTCATTCC	0	0.08	0	0	0.08
ATTTCCGGACCAGGCTTCATTCC	0	0.04	0	0	0.04
TTTCCGGACCAGGCTTCATTCC	0.05	0	0	0	0.05
TTTCCGGACCAGGCTTCATTCC	0.24	0.25	0	0	0.49
TTTCCGGACCAGGCTTCATTCC	1.51	2.76	0	0	4.27
TTTCCGGACCAGGCTTCATTCC	0.29	0.42	0	0	0.71
TTTCCGGACCAGGCTTCATTCC	0	0.08	0	0.18	0.26
TTTCCGGACCAGGCTTCATTCC	14.48	26.2	0.54	0	41.22
TTCCGGACCAGGCTTCATTCC	0.05	0.5	0	0	0.55
TTCCGGACCAGGCTTCATTCC	0.05	0.54	0	0	0.59
TTCCGGACCAGGCTTCATTCC	3.16	2.76	0.22	0	6.14
TTCCGGACCAGGCTTCATT	0	0	0.22	0	0.22
TCCGGACCAGGCTTCATTCC	5.69	8.96	6.89	7.72	29.26
TCCGGACCAGGCTTCATTCC	7382.09	13848.6	283.82	196.46	21710.97
TCCGGACCAGGCTTCATT	0.73	1	2.8	4.23	8.76
TCCGGACCAGGCTTCATTCC	50.45	94.52	4.74	3.31	153.02
TCCGGACCAGGCTTCATTCC	28	51.95	0.97	0.37	81.29
TCCGGACCAGGCTTCATTCC	13.85	23.86	0	0.18	37.89
TCCGGACCAGGCTTCATT	1.26	4.56	0.11	0	5.93
TCCGGACCAGGCTTCA	0.15	0.13	0	0.18	0.46
TCCGGACCAGGCTTCATTCC	0.1	0.21	0	0	0.31
TCCGGACCAGGCTTCATTCC	0.49	0.5	0	0	0.99
TCCGGACCAGGCTTCATTCC	6.46	14.4	2.91	1.84	25.61
TCCGGACCAGGCTTCATTCC	0.05	0	0.11	0	0.16
TCCGGACCAGGCTTCATTCC	0.05	0.08	0	0	0.13
TCCGGACCAGGCTTCATTCC	0.19	0.21	0	0	0.4
TCCGGACCAGGCTTCATTCC	0.1	0.08	0	0	0.18
TCCGGACCAGGCTTCATTCC	0.1	0.04	0	0	0.14
TCCGGACCAGGCTTCATTCC	11.81	25.62	0.54	0.37	38.34
TCCGGACCAGGCTTCATTCC	0.29	0.38	0	0	0.67
TCCGGACCAGGCTTCATTCC	0	0.08	0	0	0.08
TCCGGACCAGGCTTCATTCC	0.58	0.67	0.43	0.74	2.42
TCCGGACCAGGCTTCATTCC	0.05	0	0	0	0.05
TCCGGACCAGGCTTCATTCC	0.05	0	0	0	0.05
TCCGGACCAGGCTTCATTCC	0	0	0.32	0	0.32
TCCGGACCAGGCTTCATTCC	4.37	7.33	4.85	5.15	21.7
TCCGGACCAGGCTTCATTCC	0.05	0	0	0	0.05
TCCGGACCAGGCTTCATTCC	0.87	1.63	0.97	2.02	5.49
TCCGGACCAGGCTTCATTCC	0	0	0.32	0	0.32
TCCGGACCAGGCTTCATTCC	0.05	0.21	0	0.37	0.63

AGTTGAGGGAAATGTTGTCTGGTTCCGAGATCTTTCACTGAAGCTTGGATATTGTCACTCACTGAATGATTTCCGGACCAGGCTTCATTCCCTCAACT

mdm-miR166i

mdm-miR166i*: GAAATGTTGTCTGGTTCCGAGA

>mdm-MIR167a MI0023026

	GSM880655_apple_fruit	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880653_apple_root	Total
AGCGGTTGAAGCTGCCAGCATGATC	0.11	0	0	0	0.11
TTGAAGCTGCCAGCATGATCTTA	0.22	0.18	0.04	0	0.44
TTGAAGCTGCCAGCATGATCT	0.11	0.92	11.51	0.44	12.98
TTGAAGCTGCCAGCATGATCTT	0	1.65	0.63	0.24	2.52
TTGAAGCTGCCAGCATGA	0	0	0.21	0	0.21
TTGAAGCTGCCAGCATGATC	0	0	0.13	0	0.13
TGAAGCTGCCAGCATGATCTTA	295.78	1250.78	1589.22	561.04	3696.82
TGAAGCTGCCAGCATGATCTT	8.72	43.19	197.03	80.68	329.62
TGAAGCTGCCAGCATGATCT	6.25	51.27	69.49	17.98	144.99
TGAAGCTGCCAGCATGAT	7.11	111.37	1.42	0.29	120.19
TGAAGCTGCCAGCATGATCTTAT	1.83	0.92	6.2	3.74	12.69
TGAAGCTGCCAGCATGATC	2.15	15.8	43.99	11.62	73.56
TGAAGCTGCCAGCATG	0.22	3.31	0.08	0	3.61
TGAAGCTGCCAGCATGA	0.97	23.34	19.13	3.55	46.99
TGAAGCTGCCAGCAT	0.65	1.29	0.17	0	2.11
TGAAGCTGCCAGCATGATCTTATA	0	0	0.04	0	0.04
GAAGCTGCCAGCATGA	0.11	0.18	0.04	0	0.33
GAAGCTGCCAGCATGAT	0.22	2.21	0	0	2.43
GAAGCTGCCAGCATGATC	0.11	0.55	0.08	0	0.74
GAAGCTGCCAGCATGATCTTA	7.43	20.03	0.63	0.34	28.43
GAAGCTGCCAGCATGATCTT	0	0.55	0.17	0.05	0.77
GAAGCTGCCAGCATGATCT	2.48	1.47	0.08	0	4.03
AAGCTGCCAGCATGAT	0	0.55	0	0	0.55
AAGCTGCCAGCATGATCT	0	0.55	0	0	0.55
AAGCTGCCAGCATGATCTTA	0.11	2.02	0.29	0.1	2.52
AAGCTGCCAGCATGATC	0	0.18	0.04	0	0.22
AAGCTGCCAGCATGATCTTAT	0.11	0	0	0	0.11
AAGCTGCCAGCATGA	0	0.37	0	0	0.37
AGCTGCCAGCATGATC	0	0.18	0	0	0.18
AGCTGCCAGCATGATCTTA	0.11	1.1	0.08	0.15	1.44
AGCTGCCAGCATGATCT	0.11	0.37	0	0	0.48
AGCTGCCAGCATGAT	0.11	1.84	0	0	1.95
AGCTGCCAGCATGATCTT	0	0	0.04	0	0.04
GCTGCCAGCATGATCT	0	0.18	0.04	0	0.22
GCTGCCAGCATGATC	0	0	0.08	0	0.08
GCTGCCAGCATGATCTT	0	0.18	0.17	0.19	0.54
GCTGCCAGCATGATCTTA	0.65	1.84	1.93	1.07	5.49
GCTGCCAGCATGATCTTAT	0	0	0	0.05	0.05
CTGCCAGCATGATCTTA	0.65	9.74	0.5	0.1	10.99
CTGCCAGCATGATCT	0	0.37	0.13	0	0.5
CTGCCAGCATGATCTT	0	0.18	0.13	0	0.31
TGCCAGCATGATCTTA	0.11	0.74	0.08	0.05	0.98
TGCCAGCATGATCTT	0	0.18	0	0	0.18
GCCAGCATGATCTTA	0.11	1.47	0.04	0	1.62
	0	0.18	0	0	0.18
TCAGATCATCTGGCAGTTTCA					
AGATCATCTGGCAGTTTCACC	1.51	26.83	0.8	1.75	30.89
AGATCATCTGGCAGTTTCA	0.11	0	0	0.1	0.21
AGATCATCTGGCAGTTTC	0.11	0	0	0	0.11
AGATCATCTGGCAGTTTCAC	0	0	0	0.49	0.49
AGATCATCTGGCAGTTTCACCT	0	0.37	0	0	0.37
AGATCATCTGGCAGTTT	0	0.37	0	0	0.37
GATCATCTGGCAGTTTCACC	0	0.37	0	0.05	0.42
ATCATCTGGCAGTTTCACCT	0	0.55	0	0	0.55
ATCTGGCAGTTTCACC	0	0.37	0	0	0.37
TCATGCACTGGTAGCGGTTGAAGCTGCCAGCATGATCTTATAACTCCWACTTCGTTTAGGGAAGATCAGATCATCTGGCAGTTTCACCTGTTACTGGTAGCATGA					

mdm-miR167a

Corrected:

mdm-miR167a: TGAAGCTGCCAGCATGATCTTA
mdm-miR167a*: AGATCATCTGGCAGTTTCACC

>mdm-miR167b MI0023027

AAAGTGAAGCTGCCAGCATGA
AAGTGAAGCTGCCAGCATGATCTA
GTGAAGCTGCCAGCATGATCTA
TGAAGCTGCCAGCATGATCT
TGAAGCTGCCAGCATGAT
TGAAGCTGCCAGCATGATCTA
TGAAGCTGCCAGCATGATC
TGAAGCTGCCAGCATGA
TGAAGCTGCCAGCATGATCTAG
TGAAGCTGCCAGCATG
TGAAGCTGCCAGCAT
GAAGCTGCCAGCATGATCT
GAAGCTGCCAGCATGAT
GAAGCTGCCAGCATGATCTA
GAAGCTGCCAGCATGA
GAAGCTGCCAGCATGATC
AAGCTGCCAGCATGA
AAGCTGCCAGCATGATCTA
AAGCTGCCAGCATGATCT
AAGCTGCCAGCATGATC
AAGCTGCCAGCATGAT
AGCTGCCAGCATGATCTA
AGCTGCCAGCATGATC
AGCTGCCAGCATGATCT
AGCTGCCAGCATGAT
GCTGCCAGCATGATCTA
GCTGCCAGCATGATCT
GCTGCCAGCATGATC
CTGCCAGCATGATCTA
CTGCCAGCATGATCT
TGCCAGCATGATCTA

GSM880654_apple_flower	GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	Total
0.37	0	0	0	0.37
0	0.05	0.04	0	0.09
0	0.05	0	0	0.05
51.27	17.98	69.49	6.25	144.99
111.37	0.29	1.42	7.11	120.19
3117.95	1900.69	10243.37	174.5	15436.51
15.8	11.62	43.99	2.15	73.56
23.34	3.55	19.13	0.97	46.99
0	0.1	1.13	0	1.23
3.31	0	0.08	0.22	3.61
1.29	0	0.17	0.65	2.11
1.47	0	0.08	2.48	4.03
2.21	0	0	0.22	2.43
44.11	1.17	5.57	2.69	53.54
0.18	0	0.04	0.11	0.33
0.55	0	0.08	0.11	0.74
0.37	0	0	0	0.37
4.23	0.39	1.51	0.43	6.56
0.55	0	0	0	0.55
0.18	0	0.04	0	0.22
0.55	0	0	0	0.55
8.45	0.39	1.51	0.22	10.57
0.18	0	0	0	0.18
0.37	0	0	0.11	0.48
1.84	0	0	0.11	1.95
5.7	2.33	9.92	0.11	18.06
0.18	0	0.04	0	0.22
0	0	0.08	0	0.08
16.54	0.49	2.64	0.32	19.99
0.37	0	0.13	0	0.5
1.1	0.19	0.67	0	1.96
2.39	0.24	0	0.75	3.38
0.18	0	0	0	0.18
0.18	0.05	0	0	0.23
0.18	0	0	0	0.18
0.37	0	0	0	0.37
0.18	0	0	0	0.18

GGGAAAAAGTGAAGCTGCCAGCATGATCTAGCTTTGGCTAAAGATGTATATAATCACGTATATATATGATCAGTTCTATTAACCCCTGGTAGGTCATGCTCTGACAGCTTCACCTTCCT

mdm-miR167b

mdm-miR167b*: GGTGATGCTCTGACAGCTTCACCT

>mdm-MIR167c MI0023028

	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	GSM880654_apple_flower	Total
CAGTTGAAGCTGCCAGCATGAT	0.04	0	0	0	0.04
CAGTTGAAGCTGCCAGCATG	0	0.11	0	0	0.11
GTTGAAGCTGCCAGCATGATCTA	0	0	0.05	0	0.05
TTGAAGCTGCCAGCATGATCT	11.51	0.11	0.44	0.92	12.98
TTGAAGCTGCCAGCATGATCTA	22.9	0	0.68	1.29	24.87
TTGAAGCTGCCAGCATGATC	0.13	0	0	0	0.13
TTGAAGCTGCCAGCATGA	0.21	0	0	0	0.21
TTGAAGCTGCCAGCATGATCTAA	0.08	0	0	0	0.08
TGAAGCTGCCAGCATGATCTAA	3141.27	2.05	149.85	149.04	3442.21
TGAAGCTGCCAGCATGATCTA	10243.37	174.5	1900.69	3117.95	15436.51
TGAAGCTGCCAGCATGATCTAAA	16.83	0	1.17	1.65	19.65
TGAAGCTGCCAGCATGATC	43.99	2.15	11.62	15.8	73.56
TGAAGCTGCCAGCATGA	19.13	0.97	3.55	23.34	46.99
TGAAGCTGCCAGCATGAT	1.42	7.11	0.29	111.37	120.19
TGAAGCTGCCAGCATGATCTAAAC	0.04	0	0.05	1.29	1.38
TGAAGCTGCCAGCATGATCT	69.49	6.25	17.98	51.27	144.99
TGAAGCTGCCAGCAT	0.17	0.65	0	1.29	2.11
TGAAGCTGCCAGCATG	0.08	0.22	0	3.31	3.61
TGAAGCTGCCAGCATGATCTAAACT	0	0	0	1.29	1.29
GAAGCTGCCAGCATGATCTAA	2.47	0.11	0.1	1.65	4.33
GAAGCTGCCAGCATGATC	0.08	0.11	0	0.55	0.74
GAAGCTGCCAGCATGA	0.04	0.11	0	0.18	0.33
GAAGCTGCCAGCATGAT	0	0.22	0	2.21	2.43
GAAGCTGCCAGCATGATCTA	5.57	2.69	1.17	44.11	53.54
GAAGCTGCCAGCATGATCT	0.08	2.48	0	1.47	4.03
GAAGCTGCCAGCATGATCTAAA	0.04	0	0	0	0.04
GAAGCTGCCAGCATGATCTA	1.51	0.43	0.39	4.23	6.56
GAAGCTGCCAGCATGATCTAA	0.8	0	0.1	0.55	1.45
GAAGCTGCCAGCATGATCTAAAC	0	0	0	0.92	0.92
GAAGCTGCCAGCATGATCT	0	0	0	0.55	0.55
GAAGCTGCCAGCATGATC	0.04	0	0	0.18	0.22
GAAGCTGCCAGCATGATCTAAA	0.04	0	0	0.37	0.41
GAAGCTGCCAGCATGA	0	0	0	0.37	0.37
GAAGCTGCCAGCATGAT	0	0	0	0.55	0.55
AGCTGCCAGCATGATCTAA	0.54	0	0.05	0.37	0.96
AGCTGCCAGCATGATC	0	0	0	0.18	0.18
AGCTGCCAGCATGATCTAAACTT	0	0	0	0.18	0.18
AGCTGCCAGCATGATCT	0	0.11	0	0.37	0.48
AGCTGCCAGCATGATCTAAACT	0	0	0	0.18	0.18
AGCTGCCAGCATGATCTA	1.51	0.22	0.39	8.45	10.57
AGCTGCCAGCATGAT	0	0.11	0	1.84	1.95
GCTGCCAGCATGATCTA	9.92	0.11	2.33	5.7	18.06
GCTGCCAGCATGATCT	0.04	0	0	0.18	0.22
GCTGCCAGCATGATCTAA	2.97	0	0.29	0.37	3.63
GCTGCCAGCATGATC	0.08	0	0	0	0.08
CTGCCAGCATGATCTAA	0.5	0	0	1.1	1.6
CTGCCAGCATGATCTA	2.64	0.32	0.49	16.54	19.99
CTGCCAGCATGATCT	0.13	0	0	0.37	0.5
TGCCAGCATGATCTA	0.67	0	0.19	1.1	1.96
GCCAGCATGATCTAA	0.08	0	0	0	0.08
TGATCTAAACTTCCCTCTTGGT	0	0	0	0.18	0.18
AGGAAAGATCAGATCATGTG	0	0	0	0.18	0.18
ATCAGATCATGTGGTAGCTTC	0	0.22	0.05	0.18	0.45
ATCAGATCATGTGGTAGCTTCACC	0	0.32	0	0.18	0.5
TCAGATCATGTGGTAGCTTCA	0	0	0.05	0	0.05
TCAGATCATGTGGTAGCTTCA	0.38	0.43	0.97	1.29	3.07
TCAGATCATGTGGTAGCTTC	0	0	0.05	0.18	0.23
TCAGATCATGTGGTAGCTTCAC	0	0.32	0	0	0.32
CAGATCATGTGGTAGCTT	0	0.11	0	0	0.11
CAGATCATGTGGTAGCTTCA	0.04	0	0.15	0	0.19
CAGATCATGTGGTAGCTTCACC	0	0	0.05	0	0.05
AGATCATGTGGTAGCTTCACC	1.59	1.62	0.29	2.57	6.07
AGATCATGTGGTAGCTTCAC	0.04	0.11	0	0	0.15
GATCATGTGGTAGCTTC	0	0	0	0.18	0.18
GATCATGTGGTAGCTTCACC	0	3.77	0.05	4.41	8.23
ATCATGTGGTAGCTTCA	0.04	0	0.05	0	0.09
ATCATGTGGTAGCTTCAC	0.04	0	0	0	0.04
ATCATGTGGTAGCTTCACC	0	0	0	0.37	0.37
ATCATGTGGTAGCTTCACCTG	0	0	0	0.37	0.37
ATGTGGTAGCTTCACCTGTTG	0.17	0	0.05	0	0.22
ATGTGGTAGCTTCACC	0	0.11	0	0	0.11
TAGCAGTTGAAGCTGCCAGCATGATCTAAACTTCCCTCTTGGTCAAGGAAAGATCAGATCATGTGGTAGCTTCACCTGTTG					

mdm-miR167c

mdm-miR167c*: GATCATGTGGTAGCTTCACC

>mdm-miR167d MI0023029

	GSM880655_apple_fruit	GSM880653_apple_root	GSM880654_apple_flower	GSM880652_apple_leaf	Total
AGCGTTGAAGCTGCCAGCATGATC	0.11	0	0	0	0.11
GTTGAAGCTGCCAGCATGATCTA	0	0.05	0	0	0.05
TTGAAGCTGCCAGCATGATCTA	0.11	0.44	0.92	11.51	12.98
TTGAAGCTGCCAGCATGATCTA	0	0.68	1.29	22.9	24.87
TTGAAGCTGCCAGCATGATC	0	0	0	0.13	0.13
TTGAAGCTGCCAGCATGA	0	0	0	0.21	0.21
TTGAAGCTGCCAGCATGATCTAA	0	0	0	0.08	0.08
TGAAGCTGCCAGCATGATCTA	174.5	1900.69	3117.95	10243.37	15436.51
TGAAGCTGCCAGCATGATCTAA	2.05	149.85	149.04	3141.27	3442.21
TGAAGCTGCCAGCATGAT	7.11	0.29	111.37	1.42	120.19
TGAAGCTGCCAGCATGA	0.97	3.55	23.34	19.13	46.99
TGAAGCTGCCAGCATGATCTAAA	0	1.17	1.65	16.83	19.65
TGAAGCTGCCAGCATGATCT	6.25	17.98	51.27	69.49	144.99
TGAAGCTGCCAGCATGATCTAAAAC	0	0.05	1.29	0.04	1.38
TGAAGCTGCCAGCATGATC	2.15	11.62	15.8	43.99	73.56
TGAAGCTGCCAGCATG	0.22	0	3.31	0.08	3.61
TGAAGCTGCCAGCAT	0.65	0	1.29	0.17	2.11
TGAAGCTGCCAGCATGATCTAAAAC	0	0	1.29	0	1.29
GAAGCTGCCAGCATGATC	0.11	0	0.55	0.08	0.74
GAAGCTGCCAGCATGATCTAA	0.11	0.1	1.65	2.47	4.33
GAAGCTGCCAGCATGATCTA	2.69	1.17	44.11	5.57	53.54
GAAGCTGCCAGCATGA	0.11	0	0.18	0.04	0.33
GAAGCTGCCAGCATGATCT	2.48	0	1.47	0.08	4.03
GAAGCTGCCAGCATGAT	0.22	0	2.21	0	2.43
GAAGCTGCCAGCATGATCTAAA	0	0	0	0.04	0.04
AAGCTGCCAGCATGA	0	0	0.37	0	0.37
AAGCTGCCAGCATGATCTA	0.43	0.39	4.23	1.51	6.56
AAGCTGCCAGCATGATCTAA	0	0.1	0.55	0.8	1.45
AAGCTGCCAGCATGATCT	0	0	0.55	0	0.55
AAGCTGCCAGCATGAT	0	0	0.55	0	0.55
AAGCTGCCAGCATGATC	0	0	0.18	0.04	0.22
AAGCTGCCAGCATGATCTAAAAC	0	0	0.92	0	0.92
AAGCTGCCAGCATGATCTAAA	0	0	0.37	0.04	0.41
AGCTGCCAGCATGATCTA	0.22	0.39	8.45	1.51	10.57
AGCTGCCAGCATGAT	0.11	0	1.84	0	1.95
AGCTGCCAGCATGATC	0	0	0.18	0	0.18
AGCTGCCAGCATGATCTAAAAC	0	0	0.18	0	0.18
AGCTGCCAGCATGATCTAA	0	0.05	0.37	0.54	0.96
AGCTGCCAGCATGATCT	0.11	0	0.37	0	0.48
AGCTGCCAGCATGATCTAAAAC	0	0	0.18	0	0.18
GCTGCCAGCATGATCT	0	0	0.18	0.04	0.22
GCTGCCAGCATGATCTAA	0	0.29	0.37	2.97	3.63
GCTGCCAGCATGATCTA	0.11	2.33	5.7	9.92	18.06
GCTGCCAGCATGATC	0	0	0	0.08	0.08
CTGCCAGCATGATCT	0	0	0.37	0.13	0.5
CTGCCAGCATGATCTA	0.32	0.49	16.54	2.64	19.99
CTGCCAGCATGATCTAA	0	0	1.1	0.5	1.6
TGCCAGCATGATCTA	0	0.19	1.1	0.67	1.96
GCCAGCATGATCTAA	0	0	0	0.08	0.08
TGATCTAAAACCTCCCTCTTGGT	0	0	0.18	0	0.18
AGGAAAAGATCAGATCATGTG	0	0	0.18	0	0.18
ATCAGATCATGTGGTAGCTTCACC	0.32	0	0.18	0	0.5
ATCAGATCATGTGGTAGCTTC	0.22	0.05	0.18	0	0.45
TCAGATCATGTGGTAGCTTCA	0.43	0.97	1.29	0.38	3.07
TCAGATCATGTGGTAGCTTCAC	0.32	0	0	0	0.32
TCAGATCATGTGGTAGCTTC	0	0.05	0.18	0	0.23
TCAGATCATGTGGTAGCTTCACC	0	0.05	0	0	0.05
CAGATCATGTGGTAGCTTCA	0	0.15	0	0.04	0.19
CAGATCATGTGGTAGCTT	0.11	0	0	0	0.11
CAGATCATGTGGTAGCTTCACC	0	0.05	0	0	0.05
AGATCATGTGGTAGCTTCACC	1.62	0.29	2.57	1.59	6.07
AGATCATGTGGTAGCTTCAC	0.11	0	0	0.04	0.15
GATCATGTGGTAGCTTCACC	3.77	0.05	4.41	0	8.23
GATCATGTGGTAGCTTC	0	0	0.18	0	0.18
ATCATGTGGTAGCTTCA	0	0.05	0	0.04	0.09
ATCATGTGGTAGCTTCAC	0	0	0	0.04	0.04
ATCATGTGGTAGCTTCACCTG	0	0	0.37	0	0.37
ATCATGTGGTAGCTTCACC	0	0	0.37	0	0.37
ATGTGGTAGCTTCACCTGTTGA	0	0	0	0.04	0.04
ATGTGGTAGCTTCACCTGTTG	0	0.05	0	0.17	0.22
ATGTGGTAGCTTCACC	0.11	0	0	0	0.11

TCGTGGACCAATAGCGTTGAAGCTGCCAGCATGATCTAAAACCTCCCTCTTGGTCAAGGAAAAGATCAGATCATGTGGTAGCTTCACCTGTTGATGGGGATCACGA

mdm-miR167d

mdm-miR167d*: GATCATGTGGTAGCTTCACC

>mdm-MIR167e MI0023030

	GSM880654_apple_flower	GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	Total
AAAGTGAAGCTGCCAGCATGA	0.37	0	0	0	0.37
AAGTGAAGCTGCCAGCATGATCTA	0	0.05	0.04	0	0.09
GTGAAGCTGCCAGCATGATCTA	0	0.05	0	0	0.05
TGAAGCTGCCAGCATGATCT	51.27	17.98	69.49	6.25	144.99
TGAAGCTGCCAGCATGAT	111.37	0.29	1.42	7.11	120.19
TGAAGCTGCCAGCATGATCTA	3117.95	1900.69	10243.37	174.5	15436.51
TGAAGCTGCCAGCATGATC	15.8	11.62	43.99	2.15	73.56
TGAAGCTGCCAGCATGA	23.34	3.55	19.13	0.97	46.99
TGAAGCTGCCAGCATGATCTAG	0	0.1	1.13	0	1.23
TGAAGCTGCCAGCATG	3.31	0	0.08	0.22	3.61
TGAAGCTGCCAGCAT	1.29	0	0.17	0.65	2.11
GAAGCTGCCAGCATGATCT	1.47	0	0.08	2.48	4.03
GAAGCTGCCAGCATGATCTA	44.11	1.17	5.57	2.69	53.54
GAAGCTGCCAGCATGA	0.18	0	0.04	0.11	0.33
GAAGCTGCCAGCATGAT	2.21	0	0	0.22	2.43
GAAGCTGCCAGCATGATC	0.55	0	0.08	0.11	0.74
AAGCTGCCAGCATGATCT	0.55	0	0	0	0.55
AAGCTGCCAGCATGAT	0.55	0	0	0	0.55
AAGCTGCCAGCATGATC	0.18	0	0.04	0	0.22
AAGCTGCCAGCATGATCTA	4.23	0.39	1.51	0.43	6.56
AAGCTGCCAGCATGA	0.37	0	0	0	0.37
AGCTGCCAGCATGATC	0.18	0	0	0	0.18
AGCTGCCAGCATGATCTA	8.45	0.39	1.51	0.22	10.57
AGCTGCCAGCATGAT	1.84	0	0	0.11	1.95
AGCTGCCAGCATGATCT	0.37	0	0	0.11	0.48
GCTGCCAGCATGATCT	0.18	0	0.04	0	0.22
GCTGCCAGCATGATCTA	5.7	2.33	9.92	0.11	18.06
GCTGCCAGCATGATC	0	0	0.08	0	0.08
CTGCCAGCATGATCTA	16.54	0.49	2.64	0.32	19.99
CTGCCAGCATGATCT	0.37	0	0.13	0	0.5
TGCCAGCATGATCTA	1.1	0.19	0.67	0	1.96
	0	0	0	0.32	0.32

GGTCATGCTCTGACAGCCTCACT

GGAAAAAGTGAAGCTGCCAGCATGATCTAGCTTTTGCTAAAGATATGTACAATCACACATATATGTGRTTATCAGTTCTATTAACCTAGTAGGTCATGCTCTGACAGCCTCACTCCTTCC

mdm-miR167e

mdm-miR167e*: GGTCTGCTCTGACAGCCTCACT

>mdm-miR167g MI0023032

	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	Total
AACAGTTGAAGCTGCCAGCATG	0	0	0	0	0.08
AACAGTTGAAGCTGCCAGCAT	0.04	0	0	0	0.04
ACAGTTGAAGCTGCCAGCATGA	2.93	0.92	0.1	0.22	4.17
ACAGTTGAAGCTGCCAGCATG	0.04	0	0	0	0.04
CAGTTGAAGCTGCCAGCATGAT	0.04	0	0	0	0.04
CAGTTGAAGCTGCCAGCATG	0	0	0	0	0.11
GTGAAGCTGCCAGCATGATCTA	0	0	0.05	0	0.05
TTGAAGCTGCCAGCATGATCT	11.51	0.92	0.44	0.11	12.98
TTGAAGCTGCCAGCATGATCTAA	0.08	0	0	0	0.08
TTGAAGCTGCCAGCATGATCTA	22.9	1.29	0.68	0	24.87
TTGAAGCTGCCAGCATGATC	0.13	0	0	0	0.13
TTGAAGCTGCCAGCATGA	0.21	0	0	0	0.21
TGAAGCTGCCAGCATGATCTA	10243.37	3117.95	1900.69	174.5	15436.51
TGAAGCTGCCAGCATGATCT	69.49	51.27	17.98	6.25	144.99
TGAAGCTGCCAGCAT	0.17	1.29	0	0.65	2.11
TGAAGCTGCCAGCATGATC	43.99	15.8	11.62	2.15	73.56
TGAAGCTGCCAGCATG	0.08	3.31	0	0.22	3.61
TGAAGCTGCCAGCATGA	19.13	23.34	3.55	0.97	46.99
TGAAGCTGCCAGCATGATCTAA	3141.27	149.04	149.85	2.05	3442.21
TGAAGCTGCCAGCATGAT	1.42	111.37	0.29	7.11	120.19
TGAAGCTGCCAGCATGATCTAAG	2.68	0.74	0.05	0	3.47
TGAAGCTGCCAGCATGATCTAAGC	0.04	0	0	0	0.04
GAAGCTGCCAGCATGATC	0.08	0.55	0	0.11	0.74
GAAGCTGCCAGCATGATCTA	5.57	44.11	1.17	2.69	53.54
GAAGCTGCCAGCATGATCTAA	2.47	1.65	0.1	0.11	4.33
GAAGCTGCCAGCATGAT	0	2.21	0	0.22	2.43
GAAGCTGCCAGCATGATCT	0.08	1.47	0	2.48	4.03
GAAGCTGCCAGCATGA	0.04	0.18	0	0.11	0.33
AAGCTGCCAGCATGATCTAA	0.8	0.55	0.1	0	1.45
AAGCTGCCAGCATGAT	0	0.55	0	0	0.55
AAGCTGCCAGCATGA	0	0.37	0	0	0.37
AAGCTGCCAGCATGATCTA	1.51	4.23	0.39	0.43	6.56
AAGCTGCCAGCATGATCT	0	0.55	0	0	0.55
AAGCTGCCAGCATGATC	0.04	0.18	0	0	0.22
AAGCTGCCAGCATGATCTAAGC	0.04	0	0.05	0	0.09
AGCTGCCAGCATGATCTA	1.51	8.45	0.39	0.22	10.57
AGCTGCCAGCATGATCT	0	0.37	0	0.11	0.48
AGCTGCCAGCATGATC	0	0.18	0	0	0.18
AGCTGCCAGCATGAT	0	1.84	0	0.11	1.95
AGCTGCCAGCATGATCTAA	0.54	0.37	0.05	0	0.96
GCTGCCAGCATGATCT	0.04	0.18	0	0	0.22
GCTGCCAGCATGATCTA	9.92	5.7	2.33	0.11	18.06
GCTGCCAGCATGATCTAA	2.97	0.37	0.29	0	3.63
GCTGCCAGCATGATC	0.08	0	0	0	0.08
CTGCCAGCATGATCTA	2.64	16.54	0.49	0.32	19.99
CTGCCAGCATGATCT	0.13	0.37	0	0	0.5
CTGCCAGCATGATCTAA	0.5	1.1	0	0	1.6
TGCCAGCATGATCTA	0.67	1.1	0.19	0	1.96
GCCAGCATGATCTAA	0.08	0	0	0	0.08
AAGGCTATAGATCATGTGGTA	0.04	0	0	0	0.04
TATAGATCATGTGGTAGCTTC	0.04	0	0	0	0.04
ATAGATCATGTGGTAGCTTCA	1.84	0	0.19	0	2.03
ATAGATCATGTGGTAGCTTC	0.04	0.55	0	0	0.04
TAGATCATGTGGTAGCTTCACC	0.08	0	0	0	0.08
AGATCATGTGGTAGCTTCACC	0.04	0	0	0.11	0.15
AGATCATGTGGTAGCTTCACC	1.59	2.57	0.29	1.62	6.07
GATCATGTGGTAGCTTCACC	0	4.41	0.05	3.77	8.23
GATCATGTGGTAGCTTC	0	0.18	0	0	0.18
ATCATGTGGTAGCTTCA	0.04	0	0.05	0	0.09
ATCATGTGGTAGCTTCACC	0	0.37	0	0	0.37
ATCATGTGGTAGCTTCAC	0.04	0	0	0	0.04
ATCATGTGGTAGCTTCACCTG	0	0.37	0	0	0.37
ATGTGGTAGCTTCACCTGTTG	0.17	0	0.05	0	0.22
ATGTGGTAGCTTCACC	0	0	0	0.11	0.11
ATGTGGTAGCTTCACCTGTTGA	0.04	0	0	0	0.04
ACGAGAAAAACCTA	0	0.18	0	0	0.18
AGAATGACCTAGTAGAGTGCTTGCTATCTTATCGTGCACCTCAACAGTTGAAGCTGCCAGCATGATCTAAGCTATCTTTGTATACAGAAAGGCTATAGATCATGTGGTAGCTTCACCTGTTGAATGAAGCACGAGAAAAACCTAGATTCACAGCGGTCGATCT					

mdm-miR167g

mdm-miR167g*: GATCATGTGGTAGCTTCACC

>mdm-miR167h MI0023033

AGCGGTTGAAGCTGCCAGCATGATC
TTGAAGCTGCCAGCATGATCTTA
TTGAAGCTGCCAGCATGATCT
TTGAAGCTGCCAGCATGATCTT
TTGAAGCTGCCAGCATGA
TTGAAGCTGCCAGCATGATC
TGAAGCTGCCAGCATGATCTTA
TGAAGCTGCCAGCATGATCTT
TGAAGCTGCCAGCATGATCT
TGAAGCTGCCAGCATGAT
TGAAGCTGCCAGCATGATCTTAT
TGAAGCTGCCAGCATGATC
TGAAGCTGCCAGCATG
TGAAGCTGCCAGCATGA
TGAAGCTGCCAGCAT
TGAAGCTGCCAGCATGATCTTATA
GAAGCTGCCAGCATGA
GAAGCTGCCAGCATGAT
GAAGCTGCCAGCATGATC
GAAGCTGCCAGCATGATCTTA
GAAGCTGCCAGCATGATCTT
GAAGCTGCCAGCATGATCT
AAGCTGCCAGCATGAT
AAGCTGCCAGCATGATCT
AAGCTGCCAGCATGATCTTA
AAGCTGCCAGCATGATC
AAGCTGCCAGCATGATCTTAT
AAGCTGCCAGCATGA
AGCTGCCAGCATGATC
AGCTGCCAGCATGATCTTA
AGCTGCCAGCATGATCT
AGCTGCCAGCATGAT
AGCTGCCAGCATGATCTT
GCTGCCAGCATGATCT
GCTGCCAGCATGATC
GCTGCCAGCATGATCTT
GCTGCCAGCATGATCTTA
GCTGCCAGCATGATCTTAT
CTGCCAGCATGATCTTA
CTGCCAGCATGATCT
CTGCCAGCATGATCTT
TGCCAGCATGATCTTA
TGCCAGCATGATCTT
GCCAGCATGATCTTA

TCAGATCATCTGGCAGTTTCA
AGATCATCTGGCAGTTTCACC
AGATCATCTGGCAGTTTCA
AGATCATCTGGCAGTTTC
AGATCATCTGGCAGTTTCAC
AGATCATCTGGCAGTTTCACCT
AGATCATCTGGCAGTTT
GATCATCTGGCAGTTTCACC
ATCATCTGGCAGTTTCACCT
ATCTGGCAGTTTCACC

GSM880655_apple_fruit	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880653_apple_root	Total
0.11	0	0	0	0.11
0.22	0.18	0.04	0	0.44
0.11	0.92	11.51	0.44	12.98
0	1.65	0.63	0.24	2.52
0	0	0.21	0	0.21
0	0	0.13	0	0.13
295.78	1250.78	1589.22	561.04	3696.82
8.72	43.19	197.03	80.68	329.62
6.25	51.27	69.49	17.98	144.99
7.11	111.37	1.42	0.29	120.19
1.83	0.92	6.2	3.74	12.69
2.15	15.8	43.99	11.62	73.56
0.22	3.31	0.08	0	3.61
0.97	23.34	19.13	3.55	46.99
0.65	1.29	0.17	0	2.11
0	0	0.04	0	0.04
0.11	0.18	0.04	0	0.33
0.22	2.21	0	0	2.43
0.11	0.55	0.08	0	0.74
7.43	20.03	0.63	0.34	28.43
0	0.55	0.17	0.05	0.77
2.48	1.47	0.08	0	4.03
0	0.55	0	0	0.55
0	0.55	0	0	0.55
0.11	2.02	0.29	0.1	2.52
0	0.18	0.04	0	0.22
0.11	0	0	0	0.11
0	0.37	0	0	0.37
0	0.18	0	0	0.18
0.11	1.1	0.08	0.15	1.44
0.11	0.37	0	0	0.48
0.11	1.84	0	0	1.95
0	0	0.04	0	0.04
0	0.18	0.04	0	0.22
0	0	0.08	0	0.08
0	0.18	0.17	0.19	0.54
0.65	1.84	1.93	1.07	5.49
0	0	0	0.05	0.05
0.65	9.74	0.5	0.1	10.99
0	0.37	0.13	0	0.5
0	0.18	0.13	0	0.31
0.11	0.74	0.08	0.05	0.98
0	0.18	0	0	0.18
0.11	1.47	0.04	0	1.62
0	0.18	0	0	0.18
1.51	26.83	0.8	1.75	30.89
0.11	0	0	0.1	0.1
0.11	0	0	0	0.11
0	0	0	0.49	0.49
0	0.37	0	0	0.37
0	0.37	0	0	0.37
0	0.37	0	0.05	0.42
0	0.55	0	0	0.55
0	0.37	0	0	0.37

TCATGCACITGGTAGCGGTTGAAGCTGCCAGCATGATCTTATACTCCWACTTCGTTTAGGGAAGATCAGATCATCTGGCAGTTTCACCTGTTACTGGTAGCATGA

mdm-miR167h

mdm-miR167h*: AGATCATCTGGCAGTTTCACC

>mdm-miR167i MI0023034

	GSM880655_apple_fruit	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880653_apple_root	Total
ACGGGTTGAAGCTGCCAGCATGATC	0.11	0	0	0	0.11
TTGAAGCTGCCAGCATGATCTTA	0.22	0.18	0.04	0	0.44
TTGAAGCTGCCAGCATGATCT	0.11	0.92	11.51	0.44	12.98
TTGAAGCTGCCAGCATGATCTT	0	1.65	0.63	0.24	2.52
TTGAAGCTGCCAGCATGA	0	0	0.21	0	0.21
TTGAAGCTGCCAGCATGATC	0	0	0.13	0	0.13
TGAAGCTGCCAGCATGATCTTA	295.78	1250.78	1589.22	561.04	3696.82
TGAAGCTGCCAGCATGATCTT	8.72	43.19	197.03	80.68	329.62
TGAAGCTGCCAGCATGATCT	6.25	51.27	69.49	17.98	144.99
TGAAGCTGCCAGCATGAT	7.11	111.37	1.42	0.29	120.19
TGAAGCTGCCAGCATGATCTTAT	1.83	0.92	6.2	3.74	12.69
TGAAGCTGCCAGCATGATC	2.15	15.8	43.99	11.62	73.56
TGAAGCTGCCAGCATG	0.22	3.31	0.08	0	3.61
TGAAGCTGCCAGCATGA	0.97	23.34	19.13	3.55	46.99
TGAAGCTGCCAGCAT	0.65	1.29	0.17	0	2.11
TGAAGCTGCCAGCATGATCTTATA	0	0	0.04	0	0.04
GAAGCTGCCAGCATGA	0.11	0.18	0.04	0	0.33
GAAGCTGCCAGCATGAT	0.22	2.21	0	0	2.43
GAAGCTGCCAGCATGATC	0.11	0.55	0.08	0	0.74
GAAGCTGCCAGCATGATCTTA	7.43	20.03	0.63	0.34	28.43
GAAGCTGCCAGCATGATCTT	0	0.55	0.17	0.05	0.77
GAAGCTGCCAGCATGATCT	2.48	1.47	0.08	0	4.03
AAGCTGCCAGCATGAT	0	0.55	0	0	0.55
AAGCTGCCAGCATGATCT	0	0.55	0	0	0.55
AAGCTGCCAGCATGATCTTA	0.11	2.02	0.29	0.1	2.52
AAGCTGCCAGCATGATC	0	0.18	0.04	0	0.22
AAGCTGCCAGCATGATCTTAT	0.11	0	0	0	0.11
AAGCTGCCAGCATGA	0	0.37	0	0	0.37
AGCTGCCAGCATGATC	0	0.18	0	0	0.18
AGCTGCCAGCATGATCTTA	0.11	1.1	0.08	0.15	1.44
AGCTGCCAGCATGATCT	0.11	0.37	0	0	0.48
AGCTGCCAGCATGAT	0.11	1.84	0	0	1.95
AGCTGCCAGCATGATCTT	0	0	0.04	0	0.04
GCTGCCAGCATGATCT	0	0.18	0.04	0	0.22
GCTGCCAGCATGATC	0	0	0.08	0	0.08
GCTGCCAGCATGATCTT	0	0.18	0.17	0.19	0.54
GCTGCCAGCATGATCTTA	0.65	1.84	1.93	1.07	5.49
GCTGCCAGCATGATCTTAT	0	0	0	0.05	0.05
CTGCCAGCATGATCTTA	0.65	9.74	0.5	0.1	10.99
CTGCCAGCATGATCT	0	0.37	0.13	0	0.5
CTGCCAGCATGATCTT	0	0.18	0.13	0	0.31
TGCCAGCATGATCTTA	0.11	0.74	0.08	0.05	0.98
TGCCAGCATGATCTT	0	0.18	0	0	0.18
GCCAGCATGATCTTA	0.11	1.47	0.04	0	1.62
	0	0.18	0	0	0.18
TCAGATCATCTGGCAGTTTCA					
AGATCATCTGGCAGTTTCACC	1.51	26.83	0.8	1.75	30.89
AGATCATCTGGCAGTTTCA	0.11	0	0	0.1	0.21
AGATCATCTGGCAGTTTC	0.11	0	0	0	0.11
AGATCATCTGGCAGTTTCAC	0	0	0	0.49	0.49
AGATCATCTGGCAGTTTCACCT	0	0.37	0	0	0.37
AGATCATCTGGCAGTTT	0	0.37	0	0	0.37
GATCATCTGGCAGTTTCACC	0	0.37	0	0.05	0.42
ATCATCTGGCAGTTTCACCT	0	0.55	0	0	0.55
ATCTGGCAGTTTCACC	0	0.37	0	0	0.37
TCATGCACTGGTAGCGGTTGAAGCTGCCAGCATGATCTTATAACTCCWACTTCGTTTAGGGAAGATCAGATCATCTGGCAGTTTCACCTGTTACTGGTAGCATGA					

mdm-miR167i

mdm-miR167i*: AGATCATCTGGCAGTTTCACC

>mdm-miR167j MI0023035

CAGTTGAAGCTGCCAGCATGAT
CAGTTGAAGCTGCCAGCATG
TTGAAGCTGCCAGCATGATCTTA
TTGAAGCTGCCAGCATGATCTT
TTGAAGCTGCCAGCATGA
TTGAAGCTGCCAGCATGATC
TTGAAGCTGCCAGCATGATCT
TGAAGCTGCCAGCATGAT
TGAAGCTGCCAGCATGATCTT
TGAAGCTGCCAGCATGATCT
TGAAGCTGCCAGCATGA
TGAAGCTGCCAGCATGATCTTAT
TGAAGCTGCCAGCATGATCTTA
TGAAGCTGCCAGCATGATC
TGAAGCTGCCAGCATG
TGAAGCTGCCAGCAT
TGAAGCTGCCAGCAT
TGAAGCTGCCAGCATGATCTTATA
GAAGCTGCCAGCATGA
GAAGCTGCCAGCATGAT
GAAGCTGCCAGCATGATC
GAAGCTGCCAGCATGATCTTA
GAAGCTGCCAGCATGATCTT
GAAGCTGCCAGCATGATCT
AAGCTGCCAGCATGAT
AAGCTGCCAGCATGATCT
AAGCTGCCAGCATGATCTTA
AAGCTGCCAGCATGATCTTAT
AAGCTGCCAGCATGATC
AAGCTGCCAGCATGA
AGCTGCCAGCATGATCT
AGCTGCCAGCATGATC
AGCTGCCAGCATGATCTTA
AGCTGCCAGCATGAT
AGCTGCCAGCATGATCTT
GCTGCCAGCATGATCT
GCTGCCAGCATGATC
GCTGCCAGCATGATCTT
GCTGCCAGCATGATCTTA
CTGCCAGCATGATCTTA
CTGCCAGCATGATCT
CTGCCAGCATGATCTT
TGCCAGCATGATCTTA
TGCCAGCATGATCTT
GCCAGCATGATCTTA

TCAGATCATCTGGCAGTTTCA
AGATCATCTGGCAGTTTCA
AGATCATCTGGCAGTTTCA
AGATCATCTGGCAGTTTCA
AGATCATCTGGCAGTTTCA
AGATCATCTGGCAGTTTCA
AGATCATCTGGCAGTTTCA
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AGATCATCTGGCAGTTTCA
AGATCATCTGGCAGTTTCA
ATCATCTGGCAGTTTCA
ATCATCTGGCAGTTTCA
ATCATCTGGCAGTTTCA

GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	GSM880654_apple_flower	Total
0.04	0	0	0	0.04
0	0.11	0	0	0.11
0.04	0.22	0	0.18	0.44
0.63	0	0.24	1.65	2.52
0.21	0	0	0	0.21
0.13	0	0	0	0.13
11.51	0.11	0.44	0.92	12.98
1.42	7.11	0.29	111.37	120.19
197.03	8.72	80.68	43.19	329.62
69.49	6.25	17.98	51.27	144.99
19.13	0.97	3.55	23.34	46.99
6.2	1.83	3.74	0.92	12.69
1589.22	295.78	561.04	1250.78	3696.82
43.99	2.15	11.62	15.8	73.56
0.08	0.22	0	3.31	3.61
0.17	0.65	0	1.29	2.11
0.04	0	0	0	0.04
0.04	0.11	0	0.18	0.33
0	0.22	0	2.21	2.43
0.08	0.11	0	0.55	0.74
0.63	7.43	0.34	20.03	28.43
0.17	0	0.05	0.55	0.77
0.08	2.48	0	1.47	4.03
0	0	0	0.55	0.55
0	0	0	0.55	0.55
0.29	0.11	0.1	2.02	2.52
0	0.11	0	0	0.11
0.04	0	0	0.18	0.22
0	0	0	0.37	0.37
0	0.11	0	0.37	0.48
0	0	0	0.18	0.18
0.08	0.11	0.15	1.1	1.44
0	0.11	0	1.84	1.95
0.04	0	0	0	0.04
0.04	0	0	0.18	0.22
0.08	0	0	0	0.08
0.17	0	0.19	0.18	0.54
1.93	0.65	1.07	1.84	5.49
0	0	0.05	0	0.05
0.5	0.65	0.1	9.74	10.99
0.13	0	0	0.37	0.5
0.13	0	0	0.18	0.31
0.08	0.11	0.05	0.74	0.98
0	0	0	0.18	0.18
0.04	0.11	0	1.47	1.62
0	0	0	0.18	0.18
0.8	1.51	1.75	26.83	30.89
0	0.11	0.1	0	0.21
0	0.11	0	0	0.11
0	0	0.49	0	0.49
0	0	0	0.37	0.37
0	0	0	0.37	0.37
0	0	0.05	0.37	0.42
0	0	0	0.55	0.55
0	0	0	0.37	0.37

AGTGTGCATATGTTCTTATCATGCAGTGGTAGCAGTTGAAGCTGCCAGCATGATCTTATAACTCCCTACTTCGTTTAGGGAAGCTCAGATCATCTGGCAGTTTCACTGTTGTTGGTAGCATGAGACCATCAAACCT

mdm-miR167j

mdm-miR167j*: AGATCATCTGGCAGTTTCA

>mdm-miR168a MI0023036

	GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880654_apple_flower	Total
TCTCTAATTCGCTTGGTCCAG	0.05	0	0	0	0.05
TAATTCGCTTGGTGCAGGTCG	0	0.11	0	0	0.11
AATTCGCTTGGTGCAGGTCGG	0.1	0.11	0.5	0	0.71
AATTCGCTTGGTGCAGGTCGGG	0.29	0	1.17	0	1.46
TTGCTTGGTGCAGGTCGGGA	0	0	0.08	0	0.08
TGCTTGGTGCAGGTCGG	0.05	0.11	0.04	0	0.2
TGCTTGGTGCAGGTCGGGA	12.54	0.65	6.95	2.76	22.9
TGCTTGGTGCAGGTCGGGAA	940.02	65.38	1661.18	25.54	2692.12
TGCTTGGTGCAGGTCGGGAACC	0.05	0	0	0	0.05
TGCTTGGTGCAGGTCGGGAAC	23.82	0.43	19.34	0	43.59
TGCTTGGTGCAGGTCGGGAACCG	0	0	0.04	0	0.04
TGCTTGGTGCAGGTCGGG	0.1	0.11	0.04	0	0.25
TGCTTGGTGCAGGTCGG	0	0.22	0	0	0.22
TGCTTGGTGCAGGT	0	0.11	0	0.37	0.48
TGCTTGGTGCAGGTC	0	0.86	0	0.18	1.04
CGCTTGGTGCAGGTCGGGA	2.53	0.43	3.18	0.37	6.51
CGCTTGGTGCAGGTCGGG	0.05	0	0	0	0.05
CGCTTGGTGCAGGTCGGGAAC	4.47	0.11	6.28	0	10.86
CGCTTGGTGCAGGTCGGGAACC	0.05	0	0	0	0.05
GCTTGGTGCAGGTCGGGA	0.63	0.22	1.97	0	2.82
GCTTGGTGCAGGTCGGGA	0.05	0	0	0	0.05
GCTTGGTGCAGGTCGGG	0	0.11	0	0	0.11
GCTTGGTGCAGGTCGGGAAC	0	0	0.04	0	0.04
GCTTGGTGCAGGTCGGGAACC	0.1	0	0	0	0.1
CTTGGTGCAGGTCGGGAACCG	0	0.11	0.25	0.18	0.54
CTTGGTGCAGGTCGGGAAC	0.05	0.22	0	0	0.27
CTTGGTGCAGGTCGGGA	0.05	0	0.25	0.37	0.67
CTTGGTGCAGGTCGGGAACCGC	0.05	0	0.17	0	0.22
TTGGTGCAGGTCGGGAAC	0.05	0	0	0	0.05
TTGGTGCAGGTCGGGA	0.78	0	1.88	0	2.66
TTGGTGCAGGTCGGGAACCGC	0.05	0	0.25	0	0.3
TGGTGCAGGTCGGGA	0.39	0.11	0.25	0.18	0.93
TGGTGCAGGTCGGGAACCGC	0.24	0	0.17	0.18	0.59
TGGTGCAGGTCGGGA	0	0.43	0	0	0.43
TGGTGCAGGTCGGGAACCGCT	14.97	12.82	17.79	4.23	49.81
TGGTGCAGGTCGGGAACCGCTT	1.51	0.11	1.34	0	2.96
TGGTGCAGGTCGGGAACCGCTTT	0.05	0	0	0	0.05
TGGTGCAGGTCGGGAACCG	0.05	0.65	0	0	0.7
TGGTGCAGGTCGGGAAC	0	0	0.04	0.18	0.22
TGGTGCAGGTCGGGAACCG	0.19	0	0.08	0	0.27
GGTGCAGGTCGGGAAC	0	0.11	0	0	0.11
GGTGCAGGTCGGGA	0.05	0.43	0.17	0.18	0.83
GGTGCAGGTCGGGAACCGCTT	0.15	0.22	0.38	0	0.75
GGTGCAGGTCGGGAACCGCT	0	0.22	0	0	0.22
CAGTCCCGCCTTGCATCAAC	0.97	3.34	0.71	1.47	6.49
CAGTCCCGCCTTGCATCA	0	0	0	0.18	0.18
CAGTCCCGCCTTGCATCAACTG	0	0.11	0	0	0.11
CAGTCCCGCCTTGCATCAACT	0.05	0	0	0	0.05
AGTCCCGCCTTGCATCAAC	0.15	0.11	0.04	0	0.3
AGTCCCGCCTTGCATCAACTG	0.05	0	0	0	0.05
AGTCCCGCCTTGCATCAACT	0.05	0	0.04	0	0.09
GGTCCCGCCTTGCATCAACTGAAT	0	0	0	0.18	0.18
GGTCCCGCCTTGCATCAACTGA	0.05	0	0	0	0.05
GGTCCCGCCTTGCATCAACTGAA	0.05	0	0	0	0.05
GGTCCCGCCTTGCATCAACT	0	0.32	0	0	0.32
TCCCGCCTTGCATCAACTGAA	0.53	0	0.5	0.55	1.58
TCCCGCCTTGCATCAACTGA	0.1	0	0.17	0	0.27
TCCCGCCTTGCATCAACTGAAT	0	0	0.13	0	0.13
CCCGCCTTGCATCAACTGAAT	15.02	16.91	25.74	10.84	68.51
CCCGCCTTGCATCAACTGAA	0.49	0.65	0.25	0.55	1.94
CCCGCCTTGCATCAACTGA	0.05	0	0	0	0.05
CCCGCCTTGCATCAACTGAATC	0	0	0.08	0.18	0.26
CCCGCCTTGCATCAACTG	0	0	0	0.55	0.55
CCCGCCTTGCATCAACTGAATC	0.05	0	0	0	0.05
CCCGCCTTGCATCAACT	0	0	0.13	0	0.13
CCCGCCTTGCATCAACTGAA	0	0	0.04	0	0.04
CCCGCCTTGCATCAACTGAAT	0.05	2.37	0.04	0.18	2.64
CGCCTTGCATCAACTGAATCGG	0.19	0	0.29	0	0.48
CGCCTTGCATCAACTGAAT	0.05	0.22	0.04	0	0.31
CGCCTTGCATCAACTGAA	0	0	0.04	0	0.04
CGCCTTGCATCAACT	0	0.22	0	0	0.22
GCCTTGCATCAACTGAAT	0	0	0.08	0	0.08
GCCTTGCATCAACTGAA	0	0	0	0.18	0.18
CCTTGCATCAACTGAATCGGAGAC	0	0	0.04	0.18	0.22
CCTTGCATCAACTGAATCGGA	0	0	0.04	0	0.04
CCTTGCATCAACTGAAT	0.1	0	0	0.92	1.02
CCTTGCATCAACTGAATCGGAG	0	0	0.04	0	0.04
CCTTGCATCAACTGAATCGGAG	0	0	0.04	0	0.04
CATCAACTGAATCGGAGACC	0	0	0.04	0	0.04
CATCAACTGAATCGGAGACCG	0	0	0	0.18	0.18

mdm-miR168a

mdm-miR168a*: CCGCCTTGCATCAACTGAAT

>mdm-miR168b MI0023037

GAGGCGTAGGGCACGATGATT

TCTCTAATTGCTTGGTGCAG
 TAATTGCTTGGTGCAGTCCG
 AATTGCTTGGTGCAGTCCG
 AATTGCTTGGTGCAGTCCG
 TTGCTTGGTGCAGTCCGGA
 TCGCTTGGTGCAGTCCGGAA
 TCGCTTGGTGCAGTCCGGAAC
 TCGCTTGGTGCAGTCCG
 TCGCTTGGTGCAGTCCGGAACCG
 TCGCTTGGTGCAGTCCGGAAC
 TCGCTTGGTGCAGTCCGG
 TCGCTTGGTGCAGTCCGGAA
 TCGCTTGGTGCAGTCCG
 TCGCTTGGTGCAGT
 TCGCTTGGTGCAGTCCGGAA
 CGCTTGGTGCAGTCCGG
 CGCTTGGTGCAGTCCGGAAC
 CGCTTGGTGCAGTCCGGAAC
 GCTTGGTGCAGTCCGGAA
 GCTTGGTGCAGTCCGGAAC
 GCTTGGTGCAGTCCGGAAC
 GCTTGGTGCAGTCCGGAA
 CTTGGTGCAGTCCGGAA
 CTTGGTGCAGTCCGGAACCG
 CTTGGTGCAGTCCGGAAC
 CTTGGTGCAGTCCGGAACCGC
 TTGGTGCAGTCCGGAACCGC
 TTGGTGCAGTCCGGAA
 TTGGTGCAGTCCGGAAC
 TGGTGCAGTCCGGAACCGCT
 TGTGCAGTCCGGAACCGC
 TGTGCAGTCCGGAACCGCTT
 TGTGCAGTCCGGAAC
 TGTGCAGTCCGGAAC
 TGTGCAGTCCGGAAC
 TGTGCAGTCCGGAACCG
 TGTGCAGTCCGGAACCG
 GGTGCAGTCCGGAACCGCTT
 GGTGCAGTCCGGAAC
 GGTGCAGTCCGGAACCGCT

TGAGCCTATAAACCA
 AGCCTATAAACCAAGCTGGCTCGAGG
 GGCTCGAGGTCGGGGCGAAA

TCCCGCCTTGCACTCACTGAA
 TCCCGCCTTGCACTCACTGA
 TCCCGCCTTGCACTCACTGAAT
 CCGCCTTGCACTCACTGAAT
 CCGCCTTGCACTCACTGAA
 CCGCCTTGCACTCACTGA
 CCGCCTTGCACTCACTG
 CCGCCTTGCACTCACTGAATC
 CCGCCTTGCACTCACTGAAT
 CCGCCTTGCACTCACTGAA
 CCGCCTTGCACTCACTGAATC
 CCGCCTTGCACTCAAC
 CGCCTTGCACTCACTGAA
 CGCCTTGCACTCACT
 CGCCTTGCACTCACTGAAT
 CGCCTTGCACTCACTGAATCGG
 GCCTTGCACTCACTGAA
 GCCTTGCACTCACTGAAT
 CCTTGCACTCACTGAATCGGA
 CCTTGCACTCACTGAATCGGAGAC
 CCTTGCACTCACTGAAT
 CCTTGCACTCACTGAATCGGAG
 CCTTGCACTCACTGAATCGGAG
 CATCACTGAATCGGAGACC
 CATCACTGAATCGGAGACC
 ACTGAATCGGAGACC
 0.05

GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880654_apple_flower	Total
0.05	0	0	0	0.05
0.05	0	0	0	0.05
0	0.11	0	0	0.11
0.1	0.11	0.5	0	0.71
0.29	0	1.17	0	1.46
0	0	0.08	0	0.08
940.02	65.38	1661.18	25.54	2692.12
0.05	0	0	0	0.05
0.05	0.11	0.04	0	0.2
0	0	0.04	0	0.04
23.82	0.43	19.34	0	43.59
0.1	0.11	0.04	0	0.25
12.54	0.65	6.95	2.76	22.9
0	0.22	0	0	0.22
0	0.11	0	0.37	0.48
0	0.86	0	0.18	1.04
2.53	0.43	3.18	0.37	6.51
0.05	0	0	0	0.05
4.47	0.11	6.28	0	10.86
0.05	0	0	0	0.05
0.63	0.22	1.97	0	2.82
0.1	0	0	0	0.1
0	0.11	0	0.11	0.11
0	0	0.04	0	0.04
0.05	0	0	0	0.05
0.05	0	0.25	0.37	0.67
0	0.11	0.25	0.18	0.54
0.05	0.22	0	0	0.27
0.05	0	0.17	0	0.22
0.05	0	0.25	0	0.3
0.78	0	1.88	0	2.66
0.05	0	0	0	0.05
14.97	12.82	17.79	4.23	49.81
0.24	0.17	0	0.18	0.59
0.11	1.34	0	0	2.96
0.39	0.11	0.25	0.18	0.93
0	0	0.04	0.18	0.22
0	0.43	0	0	0.43
0.05	0.65	0	0	0.7
0.19	0	0.08	0	0.27
0	0.11	0	0	0.11
0.15	0.22	0.38	0	0.75
0.05	0.43	0.17	0.18	0.83
0	0.22	0	0	0.22
0	0	0	0.55	0.55
0	0	0	0.37	0.37
0	0.11	0	0	0.11
0.53	0	0.5	0.55	1.58
0.1	0	0.17	0	0.27
0	0	0.13	0	0.13
15.02	16.91	25.74	10.84	68.51
0.49	0.65	0.25	0.55	1.94
0.05	0	0	0	0.05
0	0	0	0.55	0.55
0	0	0.08	0.18	0.26
0.05	2.37	0.04	0.18	2.64
0	0	0.04	0	0.04
0.05	0	0	0	0.05
0	0	0.13	0	0.13
0	0	0.04	0	0.04
0	0.22	0	0	0.22
0.05	0.22	0.04	0	0.31
0.19	0	0.29	0	0.48
0	0	0	0.18	0.18
0	0	0.08	0	0.08
0	0	0.04	0	0.04
0	0	0.04	0.18	0.22
0.1	0	0	0.92	1.02
0	0	0.04	0	0.04
0	0	0.04	0	0.04
0	0	0.04	0	0.04
0	0	0	0.18	0.18
0.05	0	0	0	0.05

GTAGGAGCGTAGGGCACGATGATTCTTTCTGCGGTCTCTAATTCGCTTGGTGCAGTCCGGAACCGCTTCGTCGCGCTTTGAGCCTATAAACCGAGCTGGCTCGAGGCTGCGGGCGAACCGRTCCCGCTTGCACTCACTGAATCGGAGACC
 CGGTGAAGCGGTTTCATGGATCTTGCCTTCCTCG

mdm-miR168b

mdm-miR168b*: CCGCCTTGCACTCACTGAAT

>mdm-miR169a MI0023038

	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	Total
TCAAGCAGAAGAGAT	0	0	0	0	0
AGAAGAGATCGGAATGCAGCCAAG	0	0.04	0	0	0.04
AGAGATCGGAATGCAGCCAAG	0	0.04	0.05	0	0.09
AGAGATCGGAATGCA	0.18	0	0	0	0.18
GGAATGCAGCCAAGGATGAC	0.18	0	0	0	0.18
TGCAGCCAAGGATGACTTGC	0.18	0	0	0	0.18
TGCAGCCAAGGATGACTTGC	0.18	0	0	0	0.18
GCAGCCAAGGATGACTTGC	0.18	0	0	0	0.18
CAGCCAAGGATGACTTGC	0.74	0	0	0	0.74
CAGCCAAGGATGACTTGC	0.37	0	0	0	0.37
CAGCCAAGGATGACTTGC	0.37	0	0	0	0.37
CAGCCAAGGATGACTTGC	7.53	0	0	0.22	7.75
CAGCCAAGGATGACTTGC	1.29	0	0	0	1.29
CAGCCAAGGATGACTTGC	102.91	0.17	0.39	2.59	106.06
AGCCAAGGATGACTTGC	0.37	0	0	0	0.37
AGCCAAGGATGACTTGC	0.55	0	0	0	0.55
AGCCAAGGATGACTTGC	11.58	0	0.73	0	12.31
AGCCAAGGATGACTTGC	4.59	0	0.05	0	4.64
AGCCAAGGATGACTTGC	0.18	0	0	0	0.18
GCCAAGGATGACTTGC	0.92	0	0	0	0.92
CCAAGGATGACTTGC	0	0.08	0.05	0	0.13
CCAAGGATGACTTGC	0.74	0	0	0	0.74
CAAGGATGACTTGC	0.18	0	0	0	0.18
CAAGGATGACTTGC	1.65	0	0	0.11	1.76
CAAGGATGACTTGC	0	0.13	0.1	0	0.23
AGGATGACTTGC	0.55	0	0	0	0.55
CGCAAGTTGCTCTTGGCTAC	2.39	1.17	1.17	0	4.73
CGCAAGTTGCTCTTGGCTA	0.18	0	0	0	0.18
CGCAAGTTGCTCTTGGCT	0.18	0	0	0	0.18
CGCAAGTTGCTCTTGGC	0.18	0	0	0	0.18
GGCAAGTTGCTCTTGGCTACA	1.29	0	0.05	0	1.34
GGCAAGTTGCTCTTGGCTACAT	0.18	0	0	0	0.18
GGCAAGTTGCTCTTGGCTACATT	0.18	0	0	0	0.18
GGCAAGTTGCTCTTGGCTACA	0.37	0	0	0	0.37
CAAGTTGCTCTTGGCTACATT	12.31	0	0.19	0	12.5
CAAGTTGCTCTTGGCTACATT	0.37	0	0	0	0.37
CAAGTTGCTCTTGGCTACA	0.37	0	0	0	0.37
CAAGTTGCTCTTGGCTAC	0.37	0	0	0	0.37
AAGTTGCTCTTGGCT	0.18	0	0	0	0.18
AGTTGCTCTTGGCTACATT	0.18	0	0	0	0.18
GTGCTCTTGGCTAC	0.18	0	0	0	0.18
TGGCTACATTAGCTCTCTTC	0.18	0	0	0	0.18
AAGTCTCAGAGTGTTCATCAAGCAGAAGAGATCGGAATGCAGCCAAGGATGACTTGC					

mdm-miR169a

mdm-miR169a*: GGCAAGTTGCTCTTGGCTACA

>mdm-MIR169b MI0023039

TGGAAGAAGGAGCCTTGTGG
TAGCCAAGGATGATTGCC
TAGCCAAGGATGATTGCCTG
TAGCCAAGGATGATTGCCTG

AGGCAGTCACGCCTTGGCGACG
AGGCAGTCACGCCTTGGCGAC

GGAAGAGATGTCAAACATGGAAGAAGGAGCCTTGTGGTAGCCAAGGATGATTGCCTGCAGCCTCGATCCTAAAGAGTAAAGAGGTTTATTACAGATAAAAATCAGAAAAACCCAGTTGAGTTCTCAGGCAGTCACGCCTTGGCGACGTGACAAGCTTCTCTCTCATGCTAGGCTGCTCTCTCC

mdm-miR169b

GSM80652_apple_leaf	GSM80654_apple_flower	GSM80655_apple_fruit	Total
0.08	0	0	0.08
0	0.37	0.32	0.69
0.04	3.12	0.32	3.48
0	0.92	0	0.92
0	0.18	0	0.18
0	0.18	0	0.18

mdm-miR169b*: AGGCAGTCACGCCTTGGCGACG

>mdm-miR169c MI0023040

TGAAGAAAAGAGCGTTGTTGG
AAAAGAGCGTTGTTGGTAG
TAGCCAAGGATGACTTGCCCG
TAGCCAAGGATGACTT
TAGCCAAGGATGACTT
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TAGCCAAGGATGACTTGC
TAGCCAAGGATGACTTGCCCG
TAGCCAAGGATGACTTGCC
AGCCAAGGATGACTTGCC
AGCCAAGGATGACTTGC
AGCCAAGGATGACTTGC
CAAGGATGACTTGCCCG

TTATTTAATTGTCTGTCTAAA

AGGCAGTCTCCTTGGCTAAT
AGGCAGTCTCCTTGGCTAA
AGGCAGTCTCCTTGGCTAATC
GGCAGTCTCCTTGGCTAATC
GGCAGTCTCCTTGGCTAA
GGCAGTCTCCTTGGCT
GGCAGTCTCCTTGGC
GGCAGTCTCCTTGGCTAAT

TCACAGGCTCTTTTCTTTCATG

GCAGGAAGCTGGAGCCCTTACATGAAGAAAAGAGCGTTGTTGGTAGCCAAGGATGACTTGCCCGCCTCCGATTTTCATGAAAGAATATATGGCAATTATTTAATTGTCTGTCTAAAATTTATATTCATGTTTGAATCCAGGCAGTCTCCTTGGCTAATCTCACAGGCTCTTTTCTTTCATGCTAGGCCCTCCTCTTCTTC

mdm-miR169c

mdm-miR169c*: GGCAGTCTCCTTGGCTAAT

GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	GSM880653_apple_root	Total
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0	1.29	2.21	0.05	3.55
0	0	0.18	0	0.18
0	0	0.18	0	0.18
0	0.11	0	0	0.11
0	0.11	0	0	0.11
0	0.75	0.74	0	1.49
0.04	0	0.74	0	0.78
0	0	0.55	0	0.55
0	0	0.37	0	0.37
0	0	0.18	0	0.18
0	0.11	0	0	0.11
0.04	0	0	0	0.04
0	0.32	0	0.05	0.37
0	0.11	0	0	0.11
0	0.32	0	0	0.32
0	0.32	0.18	0	0.5
0	0	0.18	0	0.18
0	0.11	0	0	0.11
0	0.11	0	0	0.11
0	0.32	0.37	0	0.69
0	0	0.37	0	0.37

>mdm-miR169d MI0023041

TGAAGAAAAGAGCGTTGTTGG
AAAAGAGCGTTGTTGGTAG
TAGCCAAGGATGACTTGCCCG
TAGCCAAGGATGACTTG
TAGCCAAGGATGACT
TAGCCAAGGATGACTT
TAGCCAAGGATGACTTG
TAGCCAAGGATGACTTGCCCG
TAGCCAAGGATGACTTGCC
AGCCAAGGATGACTTGCC
AGCCAAGGATGACTTG
AGCCAAGGATGACTTG
CAAGGATGACTTGCCCG

TTATTTAATTGTCTGTCTAAA

AGGCAGTCTCCTTGGCTAAT
AGGCAGTCTCCTTGGCTAA
AGGCAGTCTCCTTGGCTAATC
GGCAGTCTCCTTGGCTAATC
GGCAGTCTCCTTGGCTAA
GGCAGTCTCCTTGGCT
GGCAGTCTCCTTGGC
GGCAGTCTCCTTGGCTAAT TCACAGGCTCTTTCTTTCATG

GCAGGAAGCTGGAGGCCCTTACATGAAGAAAAGAGCGTTGTTGGTAGCCAAGGATGACTTGCCCGCCTCCGATTTTCATGAAGAATATATGGCATTATTTAATTGTCTGTCTAAAATTTATATTCATGTTTGGGAATCCAGGCAGTCTCCTTGGCTAATCTCACAGGCTCTTTCTTTCATGCTAGGCCCTCCTCTTCTTC

mdm-miR169d

mdm-miR169d*: GGCAGTCTCCTTGGCTAAT

GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	GSM880653_apple_root	Total
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0	1.29	2.21	0.05	3.55
0	0	0.18	0	0.18
0	0	0.18	0	0.18
0	0.11	0	0	0.11
0	0.11	0	0	0.11
0	0.75	0.74	0	1.49
0.04	0	0.74	0	0.78
0	0	0.55	0	0.55
0	0	0.37	0	0.37
0	0	0.18	0	0.18
0.04	0.11	0	0	0.11
0.04	0	0	0	0.04
0	0.32	0	0.05	0.37
0	0.11	0	0	0.11
0	0.32	0	0	0.32
0	0.32	0.18	0	0.5
0	0	0.18	0	0.18
0	0.11	0	0	0.11
0	0.11	0	0	0.11
0	0.32	0.37	0	0.69
0	0	0.37	0	0.37

>mdm-miR169e MI0023171

TAAATGAAGAGAAGAGCC
TAAATGAAGAGAAGAGCCCTTG
ACATGAAGAGAAGAGCGTTGTT
TGAAGAGAAGAGCGTTGTTGGT
TGAAGAGAAGAGCGTTGTTG
TGAAGAGAAGAGCGTTGTTGG
TGAAGAGAAGAGCGTTGTT
TGAAGAGAAGAGCGTTGTT
AGAGAAGAGCGTTGTTGGTAGC
AGAGAAGAGCGTTGTTGGTAG
TAGCCAAGGATGACTTGCC
TAGCCAAGGATGACTTG
TAGCCAAGGATGACT
TAGCCAAGGATGACTTGCCCTG
TAGCCAAGGATGACTTGCCCT
TAGCCAAGGATGACTT
TAGCCAAGGATGACTTGCC
TAGCCAAGGATGACTTGCCCTGCT
TAGCCAAGGATGACTTGCCCTGC
AGCCAAGGATGACTTGCC
AGCCAAGGATGACTTGCCCTG
AGCCAAGGATGACTTG
AGCCAAGGATGACTTGCC

CACCAGGAGGTCCTCTTGGC
CACCAGGAGGTCCTCTTGG
CCAGGAGGTCCTCTTGGCTAA
CCAGGAGGTCCTCTTGGCT
CCAGGAGGTCCTCTTGGCTAAC
CCAGGAGGTCCTCTTGG
CAGGAGGTCCTCTTGGCTAACT
CAGGAGGTCCTCTTGGCTAAC
AGGCAAGGTCCTCTTGGCTAAC
GCAGGTCCTCTTGGCTAAC
GCAGGTCCTCTTGGCTAAC
CAGGTCCTCTTGGCTAACCT
CAGGTCCTCTTGGCTAACCT
AGGTCCTCTTGGCTAACCT
CTCTCTTGGCTAACCT
TGACAGCCTCTTCTCTCATG
TGACAGCCTCTTCTCTCAT
GACAGCCTCTTCTCTCATG
GACAGCCTCTTCTCTCA
ACAGCCTCTTCTCTCATGCT

GSM80652_apple_leaf	GSM80654_apple_flower	GSM80655_apple_fruit	GSM80653_apple_root	Total
0.04	0	0	0	0.04
0.21	0	0	0	0.21
0.04	0	0	0	0.04
0.13	0	0	0	0.13
0.13	0	0	0	0.13
5.15	1.65	0	0	6.8
0.04	0	0	0	0.04
0.13	0	0	0	0.13
0.17	0	0	0	0.17
0.17	0	0	0	0.17
0.04	0.74	0	0	0.78
0	0.18	0	0	0.18
0	0.18	0	0	0.18
0	1.47	0	0	1.47
0	1.1	0.11	0	1.21
0	0	0.11	0	0.11
0	0	0.11	0	0.11
0	0	0.11	0	0.11
0	0	0.11	0	0.11
0	0.55	0	0	0.55
0	0.18	0	0	0.18
0	0.18	0	0	0.18
0	0.37	0	0	0.37
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0.13	0	0	0	0.13
0.33	0	0	0.1	0.43
0.13	0	0	0	0.13
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0.08	0	0	0	0.08
0.08	0.37	0	0	0.45
0.08	2.02	1.29	0.05	3.44
0	0	0.11	0	0.11
0.04	1.47	0.22	0	1.73
0.54	0.37	0.43	0.05	1.39
0	0	0.11	0	0.11
0	0.18	0	0	0.18
0.04	0.37	0.43	0	0.84
0	0.18	0	0	0.18
0	0.37	0	0	0.37
0	0.18	0	0	0.18
0	0.18	0	0	0.18

GAGTGTATAACATGAAGAGAAGAGCGTTGTTGGTAGCCAAGGATGACTTGCCCTGCTCCTCTCTCTAACTCTCAATCCAATCCAATCCAAGAGGAGTCTAGCTGTTGGTTCCAGCAGCAGGACCCAGGAGGTCCTCTTGGCTAACCTTGACAGCCTCTTCTCTCATGCTATAACCCCTT
mdm-miR169e

mdm-miR169e*: TGACAGCCTCTTCTCTCATG

>mdm-miR169f MI0023172

TAACATGAAGAGAAGAGCG
TAACATGAAGAGAAGAGCGTTG
ACATGAAGAGAAGAGCGTTGTT
TGAAGAGAAGAGCGTTGTTGGT
TGAAGAGAAGAGCGTTGTTGG
TGAAGAGAAGAGCGTTGTTGG
TGAAGAGAAGAGCGTTGTT
TGAAGAGAAGAGCGTTGTT
AGAGAAGAGCGTTGTTGGTAGC
AGAGAAGAGCGTTGTTGGTAG
TAGCCAAGGATGACTTGCC
TAGCCAAGGATGACTTG
TAGCCAAGGATGACT
TAGCCAAGGATGACTTGCGTG
TAGCCAAGGATGACTTGCGT
TAGCCAAGGATGACTT
TAGCCAAGGATGACTTGC
TAGCCAAGGATGACTTGCGTGCT
TAGCCAAGGATGACTTGCGTGC
AGCCAAGGATGACTTGCC
AGCCAAGGATGACTTGCGTG
AGCCAAGGATGACTTG
AGCCAAGGATGACTTGC

CACCAGGCAGGTCCTTTGGC
CACCAGGCAGGTCCTTTGG
CCAGGCAGGTCCTTTGGTAA
CCAGGCAGGTCCTTTGGCT
CAGGCAGGTCCTTTGGCTAAC
CAGGCAGGTCCTTTGG
CAGGCAGGTCCTTTGGCTAACT
CAGGCAGGTCCTTTGGCTAAC
AGGCAGGTCCTTTGGCTAACT
GCAGGTCCTTTGGCTAACT
GCAGGTCCTTTGGCTAAC
CAGGTCCTTTGGCTAACTT
CAGGTCCTTTGGCTAACT
AGGTCCTTTGGCTAACTT
CTCCTTTGGCTAACTT
TGACAGCCTTCTTCTCATG
TGACAGCCTTCTTCTCAT
GACAGCCTTCTTCTCATG
GACAGCCTTCTTCTCA
ACAGCCTTCTTCTCATGCT

GSM80652_apple_leaf	GSM80654_apple_flower	GSM80655_apple_fruit	GSM80653_apple_root	Total
0.04	0	0	0	0.04
0.21	0	0	0	0.21
0.04	0	0	0	0.04
0.13	0	0	0	0.13
0.13	0	0	0	0.13
5.15	1.65	0	0	6.8
0.04	0	0	0	0.04
0.13	0	0	0	0.13
0.17	0	0	0	0.17
0.17	0	0	0	0.17
0.04	0.74	0	0	0.78
0	0.18	0	0	0.18
0	0.18	0	0	0.18
0	1.47	0	0	1.47
0	1.1	0.11	0	1.21
0	0	0.11	0	0.11
0	0	0.11	0	0.11
0	0	0.11	0	0.11
0	0	0.11	0	0.11
0	0.55	0	0	0.55
0	0.18	0	0	0.18
0	0.18	0	0	0.18
0	0.37	0	0	0.37
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0.13	0	0	0	0.13
0.33	0	0	0.1	0.43
0.13	0	0	0	0.13
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0.08	0	0	0	0.08
0.08	0.37	0	0	0.45
0.08	2.02	1.29	0.05	3.44
0	0	0.11	0	0.11
0.04	1.47	0.22	0	1.73
0.54	0.37	0.43	0.05	1.39
0	0	0.11	0	0.11
0	0.18	0	0	0.18
0.04	0.37	0.43	0	0.84
0	0.18	0	0	0.18
0	0.37	0	0	0.37
0	0.18	0	0	0.18
0	0.18	0	0	0.18

GAGTGATAACATGAAGAGAAGAGCGTTGTTGGTAGCCAAGGATGACTTGCGTGCTKCTCTCCTAATTCTAATCCAATCCAATCCAAGGAGTCTAAGTTGTTGGTTTCCAGCAGCAGGCACCCAGGCAGGTCCTTTGGCTAACTTGACAGCCTTCTTCTCATGCTATACCCCTT

mdm-miR169f

mdm-miR169f*: TGACAGCCTTCTTCTCATG

>mdm-MIR171a MI0023042

	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
AGGTATTGACGCGCCTCAATT	0.24	1.65	0	0	1.89
AGGTATTGACGCGCC	0	0.18	0	0	0.18
GTATTGACGCGCCTCA	0	0.18	0	0	0.18
GTATTGACGCGCCTCAATTT	0	0	0.22	0	0.22
TTGACGCGCCTCAATTTGAAC	0.05	0	0	0	0.05
TTGGAGACTTAACCATGCGATTCTGA	0.05	0	0	0	0.05
TGGAGACTTAACCATGCGATTCTGA	0.05	0	0	0	0.05
GGAGACTTAACCATGCGATTCTGA	0.1	0	0	0.29	0.39
AGACTTAACCATGCGATTCTGAT	0	0	0.11	0	0.11
ACTTAACCATGCGATTCTGATTGA	0	0	0	0.04	0.04
ACCATGCGATTCTGATTGAGCC	0.19	0	0	0	0.19
ATTCTGATTGAGCCGCGTCAATAT	0.05	0	0	0.08	0.13
ATTGAGCCGCGTCAATATCTCC	0.05	0	0	0	0.05
TTGAGCCGCGTCAATAT	0.1	1.47	0	0	1.57
TTGAGCCGCGTCAATATCTC	0.58	0.92	0.11	0.92	2.53
TTGAGCCGCGTCAATATCT	0.24	0.18	0	0.08	0.5
TTGAGCCGCGTCAATATCTCC	99.06	35.29	4.95	57.89	197.19
TTGAGCCGCGTCAATATC	0.19	0	0	0.17	0.36
TTGAGCCGCGTCAATA	0	0.18	0	0	0.18
TTGAGCCGCGTCAAT	0.05	0	0	0	0.05
TGAGCCGCGTCAATATCTCC	0.97	2.02	0.43	0.59	4.01
GAGCCGCGTCAATATCTCC	0.15	0	0	0	0.15
AGCCGCGTCAATATCTCC	0.05	0	0	0	0.05
GCCGCGTCAATATCTCC	0.1	0	0	0.08	0.18
CCGCGTCAATATCTCC	0	0.18	0	0.04	0.22
GAAGGTATTGACGCGCCTCAATTTGAACGRGTGGCTYATATTGGAGACTTAACCATGCGATTCTGATTGAGCCGCGTCAATATCTCC					

mdm-miR171a

mdm-miR171a*: AGGTATTGACGCGCCTCAATT

>mdm-miR171b MI0023043

	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
AGGTATTGACGCGCC	0.18	0	0	0	0.18
AGGTATTGACGCGCTCAATT	1.65	0.24	0	0	1.89
GTATTGACGCGCTCA	0.18	0	0	0	0.18
GTATTGACGCGCTCAATTT	0	0	0.22	0	0.22
TTGACGCGCTCAATTTGAAC	0	0.05	0	0	0.05
CTCAATTGAACGCGTGGCTA	0	4.13	0.65	6.66	11.44
CTCAATTGAACGCGTGGCT	0	0.1	0	0.04	0.14
CTCAATTGAACGCGTGGC	0	0.05	0	0	0.05
TCAATTGAACGCGTGGC	0	0	0	0.04	0.04
TCAATTGAACGCGTGGCTAA	0	0	0	0.04	0.04
TCAATTGAACGCGTGGCTA	0	0.05	0	0	0.05
CAATTGAACGCGTGGCTA	0	0	0	0.04	0.04
ATTTGAACGCGTGGCTAATATTGG	0.18	0	0	0.08	0.26
ATTTGAACGCGTGGCTAATAT	0	0	0	0.04	0.04
TTTGAACGCGTGGCTAATATTGGA	0	0	0	0.08	0.08
ACGCGTGGCTAATATTGGAGACTT	0	0	0	0.13	0.13
TTGGAGACTTAACCATGCGATTCTGA	0	0.05	0	0	0.05
TGGAGACTTAACCATGCGATTCTGA	0	0.05	0	0	0.05
GGAGACTTAACCATGCGATTCTGA	0	0.1	0	0.29	0.39
AGACTTAACCATGCGATTCTGATT	0	0	0.11	0	0.11
ACTTAACCATGCGATTCTGATTGA	0	0	0	0.04	0.04
ACCATGCGATTCTGATTGAGCC	0	0.19	0	0	0.19
ATTCTGATTGAGCCGCGTCAATAT	0	0.05	0	0.08	0.13
ATTGAGCCGCGTCAATATCTCC	0	0.05	0	0	0.05
TTGAGCCGCGTCAATATCTCC	35.29	99.06	4.95	57.89	197.19
TTGAGCCGCGTCAATATCTC	0.92	0.58	0.11	0.92	2.53
TTGAGCCGCGTCAAT	0	0.05	0	0	0.05
TTGAGCCGCGTCAATA	0.18	0	0	0	0.18
TTGAGCCGCGTCAATATCT	0.18	0.24	0	0.08	0.5
TTGAGCCGCGTCAATATCTCCT	0.18	0.73	0	0.33	1.24
TTGAGCCGCGTCAATAT	1.47	0.1	0	0	1.57
TTGAGCCGCGTCAATATC	0	0.19	0	0.17	0.36
TTGAGCCGCGTCAATATCTCCTCT	0	0	0	0.04	0.04
TTGAGCCGCGTCAATATCTCCTC	0	0.05	0	0	0.05
TGAGCCGCGTCAATATCTCC	2.02	0.97	0.43	0.59	4.01
TGAGCCGCGTCAATATCTCCT	0.37	0.63	0	0.13	1.13
GAGCCGCGTCAATATCTCC	0	0.15	0	0	0.15
AGCCGCGTCAATATCTCC	0	0.05	0	0	0.05
GCCGCGTCAATATCTCC	0	0.1	0	0.08	0.18
CCGCGTCAATATCTCC	0.18	0	0	0.04	0.22
AAGAAGGTATTGACGCGCTCAATTGAACGCGTGGCTAATATTGGAGACTTAACCATGCGATTCTGATTGAGCCGCGTCAATATCTCCTCTT	0.18	0	0	0.04	0.22

mdm-miR171b

mdm-miR171b*: AGGTATTGACGCGCTCAATT

>mdm-MIR171c MI0023044

	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	GSM880653_apple_root	Total
TGTTGGCCCGTTCACTCAGA	0	0	0	0	0.08
CTGATTGAGCCGCGCCAATATC	0.13	0	0	0	0.13
TGATTGAGCCGCGCCAA	0	0.11	0.92	0	1.03
TGATTGAGCCGCGCAATATCT	0.04	0.11	0	0	0.15
TGATTGAGCCGCGCCA	0	0.65	1.65	0	2.3
TGATTGAGCCGCGCAAT	0.08	0.43	1.47	0	1.98
TGATTGAGCCGCGCAATATC	15.86	56.76	49.62	0.1	122.34
TGATTGAGCCGCGCC	0	5.39	11.76	0	17.15
TGATTGAGCCGCGCAATA	0.54	10.56	11.95	0	23.05
TGATTGAGCCGCGCAATAT	0.04	8.08	7.72	0	15.84
GATTGAGCCGCGCCAATATC	0.08	1.62	1.65	0	3.35
GATTGAGCCGCGCAATAT	0	0.32	0.18	0	0.5
ATTGAGCCGCGCAATATC	0	0.11	0	0	0.11
TTGAGCCGCGCAATATC	0	1.62	0.74	0	2.36
TTGAGCCGCGCAATAT	0	0.32	0	0	0.32
TTGAGCCGCGCAATA	0	0.32	0	0	0.32
TGAGCCGCGCAATATC	0	2.15	0.55	0	2.7
TACTGTGATGTTGGCCCGTTCACTCAGAGAAGAAGACTACTTACTGCATTTGCATGTACGTAGATACGTACGTTGTTCTATGGTCACCTGAATCTGATTGAGCCGCGCAATATCTCAGTG					

mdm-miR171c

mdm-miR171c*: TGTTGGCCCGTTCACTCAGA

>mdm-miR171e MI0023046

TGTTGGCCCGGTTTCACTCAGA
TGTTGGCCCGGTTTCACTC

	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	GSM880653_apple_root	Total
CTGATTGAGCCGCGCCAATATC	0.13	0	0.18	0	0.13
TGATTGAGCCGCGCCAATATC	0.04	0.11	0	0	0.15
TGATTGAGCCGCGCCAT	0.08	0.43	1.47	0	1.98
TGATTGAGCCGCGCCAA	0	0.11	0.92	0	1.03
TGATTGAGCCGCGCC	0	5.39	11.76	0	17.15
TGATTGAGCCGCGCCA	0	0.65	1.65	0	2.3
TGATTGAGCCGCGCCAATAT	0.04	8.08	7.72	0	15.84
TGATTGAGCCGCGCCAATATC	15.86	56.76	49.62	0.1	122.34
TGATTGAGCCGCGCCATA	0.54	10.56	11.95	0	23.05
GATTGAGCCGCGCCAATATC	0.08	1.62	1.65	0	3.35
GATTGAGCCGCGCCATAT	0	0.32	0.18	0	0.5
ATTGAGCCGCGCCAATATC	0	0.11	0	0	0.11
TTGAGCCGCGCCAATATC	0	1.62	0.74	0	2.36
TTGAGCCGCGCCATAT	0	0.32	0	0	0.32
TTGAGCCGCGCCATA	0	0.32	0	0	0.32
TGAGCCGCGCCAATATC	0	2.15	0.55	0	2.7
TGAAATAGTACTGTGATGTTGGCCCGGTTTCACTCAGAGAGGAAGACTGCTTACTGCTGCATCTGCATGTACGTAGGAACGTACGTTGGGTTGGTCTCCTGAATCTGATTGAGCCGCGCCAATATCTCAGTGTCTTTCA					

mdm-miR171e

mdm-miR171e*: TGTTGGCCCGGTTTCACTCAGA

>mdm-MIR171f MI0023047

	GSM880654_apple_flower	GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880653_apple_root	Total
GGATATTGGTCCGGT	0	0	0	0	0
GGATATTGGTCCGGTTCAATA	16.36	1.51	0	0	17.87
GGATATTGGTCCGGTTCAAT	0.37	0.32	0	0	0.69
GGATATTGGTCCGGTTCAA	0.18	0	0	0	0.18
ATATTGGTCCGGTTCAATA	0.74	0	0	0	0.74
ATATTGGTCCGGTTCAATAAG	0	0	0.08	0	0.08
ATTGGTCCGGTTCAAT	0	0.22	0	0	0.22
CTGCTTTTGGATTGAGCCGTGCCA	0.18	0	0	0	0.18
TGATTGAGCCGTGCCAATATC	2.02	0.75	0.04	0.39	3.2
TGATTGAGCCGTGCCAATAT	0.18	0	0	0	0.18
TGATTGAGCCGTGCCAATA	0	0.11	0.04	0	0.15
GATTGAGCCGTGCCAATATC	0.18	0	0	0	0.18
TTGAGCCGTGCCAATATCACG	12.13	0.75	1.42	0	14.3
TTGAGCCGTGCCAATATCAC	0.18	0.11	0.5	0.15	0.94
TTGAGCCGTGCCAATATC	0.18	0.32	0	0	0.5
TTGAGCCGTGCCAATATCACGT	1.1	0.32	0	0	1.42
TTGAGCCGTGCCAATA	0	0.22	0.04	0	0.26
TTGAGCCGTGCCAAT	0	0	0.04	0	0.04
TTGAGCCGTGCCAATATCA	0.37	0	0.04	0	0.41
TGAGCCGTGCCAATATC	0.18	0	0	0.05	0.23
TGAGCCGTGCCAATATCACGT	0.37	0	0	0	0.37
TGAGCCGTGCCAATATCA	0.18	0	0	0	0.18
GAGCCGTGCCAATAT	0	0.11	0	0	0.11
GAGCCGTGCCAATATC	0.18	0	0	0	0.18
AGCCGTGCCAATATC	0.55	0	0	0	0.55
CCGTGCCAATATCACG	2.21	0	0	0	2.21
CGTGCCAATATCACG	0.37	0	0	0	0.37
CAGTTTGAACGGGATATTGGTCCGGTTCAATAAGAAAAACAGTGCTCTAAAAGTCTTGAGCTCTGCTTTTGGATTGAGCCGTGCCAATATCACGTGCCACTG					

mdm-miR171f

mdm-miR171f*: GGATATTGGTCCGGTTCAATA

>mdm-miR171g MI0023048

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
TGTTGGTATGGTTCAATCAAA	0.04	0.1	0.11	0	0.25
AATTGATTGAGCCGTGCCAA	0	0.1	0	0	0.1
ATTGATTGAGCCGTGCCAAT	0	0.39	0	0	0.39
TGATTGAGCCGTGCCAATAT	0	0	0	0.18	0.18
TGATTGAGCCGTGCCAATATC	0.04	0.39	0.75	2.02	3.2
TGATTGAGCCGTGCCAATA	0.04	0	0.11	0	0.15
GATTGAGCCGTGCCAATATC	0	0	0	0.18	0.18
TTGAGCCGTGCCAATA	0.04	0	0.22	0	0.26
TTGAGCCGTGCCAATATC	0	0	0.32	0.18	0.5
TTGAGCCGTGCCAAT	0.04	0	0	0	0.04
TGAGCCGTGCCAATATC	0	0.05	0	0.18	0.23
GAGCCGTGCCAATAT	0	0	0.11	0	0.11
GAGCCGTGCCAATATC	0	0	0	0.18	0.18
AGCCGTGCCAATATC	0	0	0	0.55	0.55
GATGTTGGTATGGTTCAATCAAAATAAAATCTCTCAAAATTTGGGTCCTTAATTGATTGAGCCGTGCCAATATC	0	0	0	0.55	0.55

mdm-miR171g

mdm-miR171g*: TGTTGGTATGGTTCAATCAAA

>mdm-MIR171h MI0023049

	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
TGTTGGAATGGCTCAATCAAA	0.63	0	0	0	0.63
GTTGGAATGGCTCAATC	0.05	0	0	0	0.05
ATGGCTCAATCAAATAAAATCTCC	0	0.18	0	0	0.18
AATTTGATTGAGCCGTGCCAA	0.1	0	0	0	0.1
ATTGATTGAGCCGTGCCAAT	0.39	0	0	0	0.39
TGATTGAGCCGTGCCAATATC	0.39	2.02	0.75	0.04	3.2
TGATTGAGCCGTGCCAATAT	0	0.18	0	0	0.18
TGATTGAGCCGTGCCAATA	0	0	0.11	0.04	0.15
GATTGAGCCGTGCCAATATC	0	0.18	0	0	0.18
TTGAGCCGTGCCAATATC	0	0.18	0.32	0	0.5
TTGAGCCGTGCCAATA	0	0	0.22	0.04	0.26
TTGAGCCGTGCCAAT	0	0	0	0.04	0.04
TGAGCCGTGCCAATATC	0.05	0.18	0	0	0.23
GAGCCGTGCCAATAT	0	0	0.11	0	0.11
GAGCCGTGCCAATATC	0	0.18	0	0	0.18
AGCCGTGCCAATATC	0	0.55	0	0	0.55
GATGTTGGAATGGCTCAATCAAATAAAATCTCCAAAGGATTGGGTCTTTTAATTTGATTGAGCCGTGCCAATATC					

mdm-miR171h

mdm-miR171h*: TGTTGGAATGGCTCAATCAAA

>mdm-miR171i MI0023050

TGGTGTGATATTGGTTTTGGCT
TGGTGTGATATTGGTTTTGGCTC
TGGTGTGATATTGGTTTTGGCTCA
GGTGTGATATTGGTTTTGGCTC
TGTGATATTGGTTTTGGCTCAT
TGTGATATTGGTTTTG
TGTGATATTGGTTTTGGCTCA
TGTGATATTGGTTTTGGCTCATA
TGTGATATTGGTTTTGGCTC
GTGATATTGGTTTTGGCTCATA
GTGATATTGGTTTTGGCTC
TGATATTGGTTTTGGCTCATA
ATATTGGTTTTGGCTCAT
TTGGTTTTGGCTCATATCTCTGAT

TGAGCCGAACCAATATCACTC
TGAGCCGAACCAATATC
TGAGCCGAACCAATATCAC
TGAGCCGAACCAATA
TGAGCCGAACCAATATCACT
TGAGCCGAACCAATATCA
GAGCCGAACCAATATCACT
GAGCCGAACCAATATCACTC
GAGCCGAACCAATATCA
AGCCGAACCAATATC
AGCCGAACCAATATCACTC
AGCCGAACCAATATCA
0
AGCCGAACCAATATCACTCTTG
AGCCGAACCAATATCACTCTT
GCCGAACCAATATCACTCTTG
CCGAACCAATATCACTC
CCGAACCAATATCACTCT

GSM880655_apple_fruit	GSM880654_apple_flower	GSM880653_apple_root	GSM880652_apple_leaf	Total
0.43	0.18	0	0.04	0.65
0	0.18	0.05	0.13	0.36
0.11	0	0	0	0.11
0.22	0	0	0	0.22
0.65	0	0.39	0.04	1.08
0.54	0	0	0	0.54
0.32	0	0.44	0.04	0.8
8.62	1.84	0.58	1	12.04
0.22	0	0	0	0.22
0.54	0.37	0	0	0.91
0	0	0	0.04	0.04
0	0	0	0.04	0.04
0.11	0	0	0	0.11
0.43	0	0	0	0.43
73.25	17.09	0.87	2.18	93.39
2.05	0.37	0	0	2.42
0.32	0	0	0.08	0.4
0.11	0	0	0	0.11
1.72	0.55	0	0.08	2.35
1.4	0.18	0	0	1.58
0.22	0	0.05	0	0.27
0.65	0	0.05	0	0.7
0	0.55	0	0	0.55
0.22	0	0	0	0.22
0.11	0.92	0	0	1.03
0	1.84	0	0	1.84
0	0.18	0	0	0.18
0.32	0	0	0	0.32
0.11	0	0	0	0.11
0.97	1.65	0	0.04	2.66
0	0.18	0	0	0.18

TGCAAAAGCAAACATGGTGTGATATTGGTTTTGGCTCATATCTCTGATAATTAGCTTATCTTCGATCATAAATCGTCATGATGCACAACAAAGACTAGTACTACGFACTCTTTGAGATGAGCCGAACCAATATCACTCTTGTATGCTCTTTGCA

mdm-miR171i

mdm-miR171i*: GTGATATTGGTTTTGGCTCATA

>mdm-MIR171j MI0023051

	GSM880655_apple_fruit	GSM880653_apple_root	GSM880654_apple_flower	GSM880652_apple_leaf	Total
CGATGTTGGTGAGGTTCAATC	0.22	1.41	0.18	0.25	2.06
CGATGTTGGTGAGGTTCA	0	0.05	0	0	0.05
CGATGTTGGTGAGGTTCC	0	0	0.18	0	0.18
CGATGTTGGTGAGGTTCAA	0	0.05	0	0	0.05
GATGTTGGTGAGGTTCAATCC	0	0	0.18	0	0.18
GATGTTGGTGAGGTTCAATCC	0	0.1	0	0	0.1
ATGTTGGTGAGGTTCAATCCGA	0	0.1	0	0	0.1
ATGTTGGTGAGGTTCAATCCG	0	0	0.55	0	0.55
	0	0.05	0.37	0	0.42
AGATTGAGCCGCGCCAATATCA	0	0.05	0	0	0.05
AGATTGAGCCGCGCCAATATC	0	0.05	0	0	0.05
AGATTGAGCCGCGCCAATAT	0	0	0.18	0	0.18
GATTGAGCCGCGCCAATATC	1.62	0	1.65	0.08	3.35
GATTGAGCCGCGCCAATAT	0.32	0	0.18	0	0.5
ATTGAGCCGCGCCAATATC	0.11	0	0	0	0.11
TTGAGCCGCGCCAATA	0.32	0	0	0	0.32
TTGAGCCGCGCCAATATCACT	1.4	3.06	1.84	0.8	7.1
TTGAGCCGCGCCAATATCAC	0.11	0.05	0	0	0.16
TTGAGCCGCGCCAATAT	0.32	0	0	0	0.32
TTGAGCCGCGCCAATATC	1.62	0	0.74	0	2.36
TTGAGCCGCGCCAATATCA	0	0.05	0	0	0.05
TGAGCCGCGCCAATATC	2.15	0	0.55	0	2.7
GCCGCGCCAATATCACT	0	0.05	0	0	0.05
CCGCGCCAATATCACT	0	0	0.37	0	0.37
AGCGATGTTGGTGAGGTTCAATCCGAAGACAGATTGACACATYCCGCCCGGTAAATTGATCTCAGATTGAGCCGCGCCAATATCACT					

mdm-miR171j

mdm-miR171j*: CGATGTTGGTGAGGTTCAATC

>mdm-MIR171k MI0023052

	GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880654_apple_flower	Total
AGAAAAGCGATGTTGGTGAGGT	0.05	0	0	0	0.05
AAGCGATGTTGGTGAGGTCAAT	0	0.11	0	0	0.11
AAGCGATGTTGGTGAGGTCAATC	0.15	0	0	0	0.15
AAGCGATGTTGGTGAGGTCA	0.05	0	0	0	0.05
CGATGTTGGTGAGGTCAATC	1.41	0.22	0.25	0.18	2.06
CGATGTTGGTGAGGTCAA	0.05	0	0	0	0.05
CGATGTTGGTGAGGTTC	0	0	0	0.18	0.18
CGATGTTGGTGAGGTCA	0.05	0	0	0	0.05
GATGTTGGTGAGGTCAATCC	0.1	0	0	0	0.1
GATGTTGGTGAGGTCAA	0	0	0	0.18	0.18
ATGTTGGTGAGGTCAATCCG	0	0	0	0.55	0.55
ATGTTGGTGAGGTCAATCCGA	0.1	0	0	0	0.1
AGATTGAGCCGCGCCAATATC	0.05	0	0	0	0.05
AGATTGAGCCGCGCCAATATCA	0.05	0	0	0.37	0.42
AGATTGAGCCGCGCCAATAT	0	0	0	0.18	0.18
GATTGAGCCGCGCCAATATC	0	1.62	0.08	1.65	3.35
GATTGAGCCGCGCCAATAT	0	0.32	0	0.18	0.5
ATTGAGCCGCGCCAATATC	0	0.11	0	0	0.11
TTGAGCCGCGCCAATATCAC	0.05	0.11	0	0	0.16
TTGAGCCGCGCCAATATCACT	3.06	1.4	0.8	1.84	7.1
TTGAGCCGCGCCAATAT	0	0.32	0	0	0.32
TTGAGCCGCGCCAATA	0	0.32	0	0	0.32
TTGAGCCGCGCCAATATC	0	1.62	0	0.74	2.36
TTGAGCCGCGCCAATATCA	0.05	0	0	0	0.05
TTGAGCCGCGCCAATATCACTT	0.19	0	0	0.18	0.37
TGAGCCGCGCCAATATC	0	2.15	0	0.55	2.7
TGAGCCGCGCCAATATCACTT	0.05	0	0	0	0.05
GCCGCGCCAATATCACT	0.05	0	0	0	0.05
CCGCGCCAATATCACT	0	0	0	0.37	0.37

GAGAAAAGCGATGTTGGTGAGGTCAATCCGAAGACAGATTTACACATCCCTGCTGGCGTAAATTGATCTCAGATTGAGCCGCGCCAATATCACTTTCTT

mdm-miR171k

mdm-miR171k*: CGATGTTGGTGAGGTCAATC

>mdm-MIR1711 MI0023053

	GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880654_apple_flower	Total
AGAAAGCGATGTTGGTGAGGT	0.05	0	0	0	0.05
AAGCGATGTTGGTGAGGTTCAAT	0	0.11	0	0	0.11
AAGCGATGTTGGTGAGGTTCAATC	0.15	0	0	0	0.15
AAGCGATGTTGGTGAGGTTCA	0.05	0	0	0	0.05
CGATGTTGGTGAGGTTCAATC	1.41	0.22	0.25	0.18	2.06
CGATGTTGGTGAGGTTCAA	0.05	0	0	0	0.05
CGATGTTGGTGAGGTTCC	0	0	0	0.18	0.18
CGATGTTGGTGAGGTTCA	0.05	0	0	0	0.05
GATGTTGGTGAGGTTCAATCC	0.1	0	0	0	0.1
GATGTTGGTGAGGTTCAA	0	0	0	0.18	0.18
ATGTTGGTGAGGTTCAATCCG	0	0	0	0.55	0.55
ATGTTGGTGAGGTTCAATCCGA	0.1	0	0	0	0.1
AGATTGAGCCGCGCCAATATC	0.05	0	0	0	0.05
AGATTGAGCCGCGCCAATATCA	0.05	0	0	0.37	0.42
AGATTGAGCCGCGCCAATAT	0	0	0	0.18	0.18
GATTGAGCCGCGCCAATATC	0	1.62	0.08	1.65	3.35
GATTGAGCCGCGCCAATAT	0	0.32	0	0.18	0.5
ATTGAGCCGCGCCAATATC	0	0.11	0	0	0.11
TTGAGCCGCGCCAATATCAC	0.05	0.11	0	0	0.16
TTGAGCCGCGCCAATATCACT	3.06	1.4	0.8	1.84	7.1
TTGAGCCGCGCCAATAT	0	0.32	0	0	0.32
TTGAGCCGCGCCAATA	0	0.32	0	0	0.32
TTGAGCCGCGCCAATATC	0	1.62	0	0.74	2.36
TTGAGCCGCGCCAATATCA	0.05	0	0	0	0.05
TTGAGCCGCGCCAATATCACTT	0.19	0	0	0.18	0.37
TGAGCCGCGCCAATATC	0	2.15	0	0.55	2.7
TGAGCCGCGCCAATATCACTT	0.05	0	0	0	0.05
GCCGCGCCAATATCACT	0.05	0	0	0	0.05
CCGCGCCAATATCACT	0	0	0	0.37	0.37
GAGAAAGCGATGTTGGTGAGGTTCAATCCGAAGACAGATTTACACATCCCTGCTGGCGTAAATTGATCTCAGATTGAGCCGCGCCAATATCACTTTCTT	0	0	0	0	0

mdm-miR1711

mdm-miR1711*: CGATGTTGGTGAGGTTCAATC

>mdm-MIR171m MI0023054

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880655_apple_fruit	Total
TGGGATGTTGGAATGGCTCAA	0.05	0	0	0	0.05
GGGATGTTGGAATGGCTCAA	0.05	0	0	0	0.05
GGGATGTTGGAATGGCTCAAT	3.4	0	0	0	3.4
GGATGTTGGAATGGCTCAATC	5.05	0.04	0	0	5.09
GGATGTTGGAATGGCTCAA	0.15	0	0	0	0.15
GSATGTTGGAATGGCTCAAT	0.1	0	0	0	0.1
GSATGTTGGAATGGCTCAATCAAA	0.05	0	0	0	0.05
TGTTGGAATGGCTCAATCAAA	0.63	0	0	0	0.63
GTTGGAATGGCTCAATC	0.05	0	0	0	0.05
ATGGCTCAATCAAAATAAAATCTCC	0	0	0.18	0	0.18
AATTGATTGAGCCGTGCCAA	0.1	0	0	0	0.1
ATTGATTGAGCCGTGCCAAT	0.39	0	0	0	0.39
TGATTGAGCCGTGCCAATATC	0.39	0.04	2.02	0.75	3.2
TGATTGAGCCGTGCCAATA	0	0.04	0	0.11	0.15
TGATTGAGCCGTGCCAATAT	0	0	0.18	0	0.18
GAITGAGCCGTGCCAATATC	0	0	0.18	0	0.18
TTGAGCCGTGCCAAT	0	0.04	0	0	0.04
TTGAGCCGTGCCAATATCACA	3.31	0.13	0.55	2.15	6.14
TTGAGCCGTGCCAATATCA	0	0.04	0.37	0	0.41
TTGAGCCGTGCCAATATCAC	0.15	0.5	0.18	0.11	0.94
TTGAGCCGTGCCAATA	0	0.04	0	0.22	0.26
TTGAGCCGTGCCAATATC	0	0	0.18	0.32	0.5
TGAGCCGTGCCAATATCA	0	0	0.18	0	0.18
TGAGCCGTGCCAATATCACA	0	0	0.18	0.43	0.61
TGAGCCGTGCCAATATC	0.05	0	0.18	0	0.23
GAGCCGTGCCAATATC	0	0	0.18	0	0.18
GAGCCGTGCCAATAT	0	0	0	0.11	0.11
AGCCGTGCCAATATC	0	0	0.55	0	0.55
CCGTGCCAATATCACA	0	0	0.55	0	0.55
TGGGATGTTGGAATGGCTCAATCAAAATAAAATCTCCAAAGGATTGGGTCTTTTAATTGATTGAGCCGTGCCAATATCACA	0	0	0.55	0	0.55

mdm-miR171m

mdm-miR171m*: GGATGTTGGAATGGCTCAATC

>mdm-MIR171n MI0023055

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	Total
TGGGATGTTGGTATGGTTCA	0	0	0	0	0.05
TGGGATGTTGGTATGGTTCAA	5.59	0.84	0	0	6.43
GGGATGTTGGTATGGTTCAA	0.1	0	0	0	0.1
GGGATGTTGGTATGGTTCAAT	0.53	0.25	0.22	0	1
GGATGTTGGTATGGTTCAATC	0.92	0	1.29	0	2.21
GGATGTTGGTATGGTTCAA	0.1	0	0	0	0.1
TGTTGGTATGGTTCAATCAA	0.1	0.04	0.11	0	0.25
AATTTGATTGAGCCGTGCCAA	0.1	0	0	0	0.1
ATTGATTGAGCCGTGCCAAT	0.39	0	0	0	0.39
TGATTGAGCCGTGCCAATA	0	0.04	0.11	0	0.15
TGATTGAGCCGTGCCAATATC	0.39	0.04	0.75	2.02	3.2
TGATTGAGCCGTGCCAATATC	0	0	0	0.18	0.18
GATTGAGCCGTGCCAATATC	0	0	0	0.18	0.18
TTGAGCCGTGCCAATATCACA	3.31	0.13	2.15	0.55	6.14
TTGAGCCGTGCCAATATCAC	0.15	0.5	0.11	0.18	0.94
TTGAGCCGTGCCAATA	0	0.04	0.22	0	0.26
TTGAGCCGTGCCAATATC	0	0	0.32	0.18	0.5
TTGAGCCGTGCCAATATCA	0	0.04	0	0.37	0.41
TTGAGCCGTGCCAAT	0	0.04	0	0	0.04
TGAGCCGTGCCAATATC	0.05	0	0	0.18	0.23
TGAGCCGTGCCAATATCACA	0	0	0.43	0.18	0.61
TGAGCCGTGCCAATATCA	0	0	0	0.18	0.18
GAGCCGTGCCAATAT	0	0	0.11	0	0.11
GAGCCGTGCCAATATC	0	0	0	0.18	0.18
AGCCGTGCCAATATC	0	0	0	0.55	0.55
CCGTGCCAATATCACA	0	0	0	0.55	0.55
TGGGATGTTGGTATGGTTCAATCAAATAAAATCTCTCAAAATTTGGTCCCTTAATTTGATTGAGCCGTGCCAATATCACA	0	0	0	0.55	0.55

mdm-miR171n

mdm-miR171n*: GGATGTTGGTATGGTTCAATC

>mdm-MIR172c MI0023058

	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
CTTTTTCGGGTGGAGCATCAT	0.18	0	0	0	0.18
CGGTTGGAGCATCATCAAGATT	0.37	0	0	0	0.37
GGAGCATCATCAAGATTCA	0.37	0.1	0.11	0	0.58
GGAGCATCATCAAGATTCACA	3.49	0.73	3.88	0	8.1
GGAGCATCATCAAGATTCA	0	0.05	0	0	0.05
GAGCATCATCAAGATTCACA	0	0	0.22	0	0.22
GCATCATCAAGATTCACA	0.18	0	0.43	0	0.61
TGAGAATCTTGATGATGCTGCA	0	0	0	0.17	0.17
GAGAATCTTGATGATGCTGCA	1.65	0.15	0.11	0.88	2.79
GAGAATCTTGATGATGCTGCGAG	0.18	0	0	0	0.18
AGAATCTTGATGATGCTGCAGC	0	0	0.11	0	0.11
AGAATCTTGATGATGCTGC	6.98	0.05	2.15	0.21	9.39
AGAATCTTGATGATG	0.18	0	0.22	0.13	0.53
AGAATCTTGATGATGCT	15.25	0	1.51	0.13	16.89
AGAATCTTGATGATGCTGCGAG	449.88	13.51	47.72	1.38	512.49
AGAATCTTGATGATGCTGCA	9.92	0.24	2.26	10.26	22.68
AGAATCTTGATGATGCTG	6.06	0.05	0.75	0.04	6.9
AGAATCTTGATGATGC	11.76	0	0.86	0.13	12.75
GAATCTTGATGATGCT	0	0	0.11	0	0.11
GAATCTTGATGATGCTGCA	0	0	0.22	0	0.22
GAATCTTGATGATGCTG	0.37	0	0	0	0.37
GAATCTTGATGATGCTGCGAG	1.1	0.15	0	0	1.25
GAATCTTGATGATGCTGC	0.18	0	0	0	0.18
AATCTTGATGATGCTGC	0	0	0.11	0	0.11
AATCTTGATGATGCTG	0	0	0.11	0	0.11
AATCTTGATGATGCT	0.74	0	0	0	0.74
AATCTTGATGATGCTGCGAG	0.37	0	0	0	0.37
ATCTTGATGATGCTGC	0.18	0	0	0	0.18
TCTTGATGATGCTGCGAG	0.18	0.05	0	0	0.23
TCTTGATGATGCTGC	0.18	0	0	0	0.18
CTTGATGATGCTGCGAG	0.18	0	0	0	0.18
GGTCACCTTTTTCGGGTGGAGCATCATCAAGATTCACAATCTTACTTGGGTTCTAGTTTTAACCCCATTTGATGATGATGAGAATCTTGATGATGCTGCAGCAGCAATAAATGACT					

mdm-miR172c

mdm-miR172c*-1: GAGCATCATCAAGATTCACA
mdm-miR172c*-2: GGAGCATCATCAAGATTCACA

>mdm-miR172d MI0023059

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	Total
GCAGCATCATCAAGATTCACA	0.1	0.42	23.91	2.57	27
GCAGCATCATCAAGATTCAC	0.05	0.13	1.08	0.74	2
GCAGCATCATCAAGA	0	0	0.22	0	0.22
GCAGCATCATCAAGATTC	0	0	0.11	0	0.11
GCAGCATCATCAAGATT	0	0	0.22	0	0.22
CAGCATCATCAAGAT	0	0	0	0.18	0.18
CAGCATCATCAAGATTCACAA	0	0.63	1.51	0.18	2.32
CAGCATCATCAAGATTCA	0	0	0.11	0	0.11
CAGCATCATCAAGATTCACA	0	0	0.22	0	0.22
GCATCATCAAGATTCACA	0	0	0.43	0.18	0.61
TCGATTGAACTCGAGGAGTTGA	0	0.04	0	0	0.04
GGAGTTGGAATCTTGATGATGCTGCAT	0	0.04	0	0	0.04
TGAGAATCTTGATGATGCTGCA	0	0.17	0	0	0.17
TGAGAATCTTGATGATGCTGCAT	0	0.08	0	0	0.08
GAGAATCTTGATGATGCTGCA	0.15	0.88	0.11	1.65	2.79
GAGAATCTTGATGATGCTGCAT	0	0.21	0	0	0.21
AGAATCTTGATGATGCT	0	0.13	1.51	15.25	16.89
AGAATCTTGATGATGCTGCATC	0	0.13	0.22	1.47	1.82
AGAATCTTGATGATGCTGCAT	65.03	2186	186.67	548.57	2986.27
AGAATCTTGATGATG	0	0.13	0.22	0.18	0.53
AGAATCTTGATGATGCTGC	0.05	0.21	2.15	6.98	9.39
AGAATCTTGATGATGCTG	0.05	0.04	0.75	6.06	6.9
AGAATCTTGATGATGC	0	0.13	0.86	11.76	12.75
AGAATCTTGATGATGCTGCA	0.24	10.26	2.26	9.92	22.68
AGAATCTTGATGATGCTGCATCA	0	0.08	0	0	0.08
GAATCTTGATGATGCTGCA	0	0	0.22	0	0.22
GAATCTTGATGATGCTGCAT	0.29	7.79	0.43	2.21	10.72
GAATCTTGATGATGCT	0	0	0.11	0	0.11
GAATCTTGATGATGCTGCATC	0	0	0.11	0	0.11
GAATCTTGATGATGCTGC	0	0	0	0.18	0.18
GAATCTTGATGATGCTG	0	0	0	0.37	0.37
AATCTTGATGATGCTGCAT	0	0.54	0.54	1.47	2.55
AATCTTGATGATGCTG	0	0	0.11	0	0.11
AATCTTGATGATGCTGC	0	0	0.11	0	0.11
AATCTTGATGATGCT	0	0	0	0.74	0.74
ATCTTGATGATGCTGCAT	0	0.88	0.11	0.37	1.36
ATCTTGATGATGCTGC	0	0	0	0.18	0.18
TCTTGATGATGCTGCAT	0	2.34	0.22	0.37	2.93
TCTTGATGATGCTGC	0	0	0	0.18	0.18
CTTGATGATGCTGCAT	0	0.8	0.22	0.37	1.39
TTGATGATGCTGCAT	0	0.59	0	0.18	0.77
AGTCATTGTTGGGGTGCAGCATCATCAAGATTCACAAGTGAAGTGTGACATGATTAATCGATTTAGTCAATGATGAACTCGAGGAGTTGAGAATCTTGATGATGCTGCATCAGCAATAGCTGACT					

mdm-miR172d

mdm-miR172d*: GCAGCATCATCAAGATTCACA

>mdm-miR172e MI0023060

GCCGCATCACCAAGATTCTT
GCCGCATCACCAAGATTCT
GCCGCATCACCAAGATTCTTAA
GCCGCATCACCAAGATTCT
GCCGCATCACCAAGATTCTTTA
GCCGCATCACCAAGATTCTTAA
CGCATCACCAAGATTCTTTA
GCATCACCAAGATTCTTTA
ATCACCAAGATTCTTTA

TAATTGATTTAGTTATGCCGAT

GGAGTTGAGAATCTTGATGATGCTGCAT
TGAGAATCTTGATGATGCTGCA
TGAGAATCTTGATGATGCTGCAT
GAGAATCTTGATGATGCTGCA
GAGAATCTTGATGATGCTGCAT
AGAATCTTGATGATGCTG
AGAATCTTGATGATG
AGAATCTTGATGATGCT
AGAATCTTGATGATGCTG
AGAATCTTGATGATGCTG
AGAATCTTGATGATGCTGCATC
AGAATCTTGATGATGCTGCA
AGAATCTTGATGATGCTGCAT
AGAATCTTGATGATGCTGCATCA
GAATCTTGATGATGCTGCAT
GAATCTTGATGATGCTG
GAATCTTGATGATGCTG
GAATCTTGATGATGCTG
GAATCTTGATGATGCTGCATC
AATCTTGATGATGCTGCAT
AATCTTGATGATGCTG
AATCTTGATGATGCTG
AATCTTGATGATGCTG
ATCTTGATGATGCTGCAT
ATCTTGATGATGCTG
TCTTGATGATGCTGCAT
TCTTGATGATGCTG
CTTGATGATGCTGCAT
TTGATGATGCTGCAT

AGTCATTGTTGCGGGTCCGCATCACCAAGATTCTTAAAGTAGTAGTGACATGATTTAATTGATTTAGTTATGCCGATCGGCTCACGGAGTTGAGAATCTTGATGATGCTGCATCAGCGATGGATGACT

mdm-miR172e

GSM880652_apple_leaf	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	Total
0.75	0	0	0	0.75
0.38	0	0	0	0.38
0.21	0	0	0	0.21
0.08	0	0	0	0.08
42.32	0	0	0	42.32
0.67	0.74	0	0	1.41
3.18	1.29	0	0	4.47
4.48	0.18	0	0	4.66
0.08	0	0	0	0.08
0.13	0	0	0	0.13
0.04	0	0	0	0.04
0.08	0	0	0	0.08
0.04	0	0	0	0.04
0.17	0	0	0	0.17
0.08	0	0	0	0.08
0.88	1.65	0.15	0.11	2.79
0.21	0	0	0	0.21
0.04	6.06	0.05	0.75	6.9
0.13	0.18	0	0.22	0.53
0.13	15.25	0	1.51	16.89
0.21	6.98	0.05	2.15	9.39
0.13	11.76	0	0.86	12.75
0.13	1.47	0	0.22	1.82
10.26	9.92	0.24	2.26	22.68
2186	548.57	65.03	186.67	2986.27
0.08	0	0	0	0.08
7.79	2.21	0.29	0.43	10.72
0	0.18	0	0	0.18
0	0	0	0.22	0.22
0	0	0	0.11	0.11
0	0.37	0	0	0.37
0	0	0	0.11	0.11
0.54	1.47	0	0.54	2.55
0	0	0	0.11	0.11
0	0.74	0	0	0.74
0	0	0	0.11	0.11
0.88	0.37	0	0.11	1.36
0	0.18	0	0	0.18
2.34	0.37	0	0.22	2.93
0	0.18	0	0	0.18
0.8	0.37	0	0.22	1.39
0.59	0.18	0	0	0.77

mdm-miR172e*: GCCGCATCACCAAGATTCTTAA

>mdm-miR172f MI0023061

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	Total
GCAGCATCATCAAGATTCACA	23.91	0.42	23.91	2.57	27
GCAGCATCATCAAGATTCAC	0.05	0.13	1.08	0.74	2
GCAGCATCATCAAGA	0	0	0.22	0	0.22
GCAGCATCATCAAGATTC	0	0	0.11	0	0.11
GCAGCATCATCAAGATT	0	0	0.22	0	0.22
CAGCATCATCAAGAT	0	0	0	0.18	0.18
CAGCATCATCAAGATTCACAA	0	0.63	1.51	0.18	2.32
CAGCATCATCAAGATTCACA	0	0	0.11	0	0.11
CAGCATCATCAAGATTCACA	0	0	0.22	0	0.22
GCATCATCAAGATTCACA	0	0	0.43	0.18	0.61
TOGATTGAACTCGAGGAGTTGA	0	0.04	0	0	0.04
GGAGTTGAAATCTTGATGATGCTGCAT	0	0.04	0	0	0.04
TGGAATCTTGATGATGCTGCA	0	0.17	0	0	0.17
TGGAATCTTGATGATGCTGCAT	0	0.08	0	0	0.08
GAGAATCTTGATGATGCTGCA	0.15	0.88	0.11	1.65	2.79
GAGAATCTTGATGATGCTGCAT	0	0.21	0	0	0.21
AGAATCTTGATGATGCT	0	0.13	1.51	15.25	16.89
AGAATCTTGATGATGCTGCATC	0	0.13	0.22	1.47	1.82
AGAATCTTGATGATGCTGCAT	65.03	2186	186.67	548.57	2986.27
AGAATCTTGATGATG	0	0.13	0.22	0.18	0.53
AGAATCTTGATGATGCTGC	0.05	0.21	2.15	6.98	9.39
AGAATCTTGATGATGCTG	0.05	0.04	0.75	6.06	6.9
AGAATCTTGATGATGC	0	0.13	0.86	11.76	12.75
AGAATCTTGATGATGCTGCA	0.24	10.26	2.26	9.92	22.68
AGAATCTTGATGATGCTGCATCA	0	0.08	0	0	0.08
GAATCTTGATGATGCTGCA	0	0	0.22	0	0.22
GAATCTTGATGATGCTGCAT	0.29	7.79	0.43	2.21	10.72
GAATCTTGATGATGCT	0	0	0.11	0	0.11
GAATCTTGATGATGCTGCATC	0	0	0.11	0	0.11
GAATCTTGATGATGCTGC	0	0	0	0.18	0.18
GAATCTTGATGATGCTG	0	0	0	0.37	0.37
AATCTTGATGATGCTGCAT	0	0.54	0.54	1.47	2.55
AATCTTGATGATGCTG	0	0	0.11	0	0.11
AATCTTGATGATGCTGC	0	0	0.11	0	0.11
AATCTTGATGATGCT	0	0	0	0.74	0.74
ATCTTGATGATGCTGCAT	0	0.88	0.11	0.37	1.36
ATCTTGATGATGCTGC	0	0	0	0.18	0.18
TCTTGATGATGCTGCAT	0	2.34	0.22	0.37	2.93
TCTTGATGATGCTG	0	0	0	0.18	0.18
CTTGATGATGCTGCAT	0	0.8	0.22	0.37	1.39
TTGATGATGCTGCAT	0	0.59	0	0.18	0.77

AGTCATTGTTGGGGTGCAGCATCATCAAGATTCACAAGTGAAGTGTGACATGATTAATCGATTAGTCATGTCGATTGAACTCGAGGAGTTGAGAATCTTGATGATGCTGCATCAGCAATAGCTGACT

mdm-miR172f

mdm-miR172f*: GCAGCATCATCAAGATTCACA

>mdm-miR172i MI0023064

CAGTATTCGCGGGTGCAGCATCATC
GCAGCATCATCAAGATTCAC
GCAGCATCATCAAGATTCACA
GCAGCATCATCAAGATTCACAT
GCAGCATCATCAAGATTCACAT
GCAGCATCATCAAGATTC
GCAGCATCATCAAGA
CAGCATCATCAAGATTCACAT
CAGCATCATCAAGATTCACA
CAGCATCATCAAGATTCACA
CAGCATCATCAAGATTCACA
AGCATCATCAAGATTCACAT
GCATCATCAAGATTCACA
CATCATCAAGATTCACAT

GSM80652_apple_leaf	GSM80653_apple_root	GSM80655_apple_fruit	GSM80654_apple_flower	Total
0.04	0	0	0	0.04
0.13	0.05	1.08	0.74	2
0.42	0.1	23.91	2.57	27
0	0	0.32	0.18	0.5
0	0	0.22	0	0.22
0	0	0.11	0	0.11
0	0	0.22	0	0.22
0.17	0	3.34	2.02	5.53
0	0	0.22	0	0.22
0	0	0.11	0	0.11
0	0	0	0.18	0.18
0	0	0	0.18	0.18
0	0	0.43	0.18	0.61
0	0	0	0.18	0.18
0	0.05	0	0	0.05
0.17	0.1	0.11	0	0.38
0	0.05	0	0	0.05
8.62	0.34	26.82	52.01	87.79
0	0	0	0.18	0.18
0.04	0	0.22	0.18	0.44
0	0	0.22	0.37	0.59
0	0	0.43	0.37	0.8
0	0	0	0.37	0.37
0	0	0.11	0	0.11
7.79	0.29	0.43	2.21	10.72
0	0	0	0.37	0.37
0	0	0.11	0	0.11
0	0	0.22	0	0.22
0	0	0	0.18	0.18
0	0	0	0.74	0.74
0	0	0.11	0	0.11
0	0	0.11	0	0.11
0	0	0.11	0	0.11
0.54	0	0.54	1.47	2.55
0.88	0	0.11	0.37	1.36
0	0	0	0.18	0.18
2.34	0	0.22	0.37	2.93
0	0	0	0.18	0.18
0.8	0	0.22	0.37	1.39
0.59	0	0	0.18	0.77

AGTCAGTATTCGCGGGTGCAGCATCATCAAGATTCACATACAGGCAAGGGGGTACCTTTATCGATCGAGTAAATTGTACCGCACCAATAAGAAATATTTCTTCACTTCTTTTGTACTTGAAGGTAGTTCCTTCGAAGTGGGAATCTTGATGATGCTGCATCAGCTGGTACATGACT

mdm-miR172i

mdm-miR172i*: GCAGCATCATCAAGATTCACA

>mdm-miR172j MI0023065

CAGTATTCGCGGGTGCAGCATCATC
GCAGCATCATCAAGATTCAC
GCAGCATCATCAAGATTCACA
GCAGCATCATCAAGATTCACAT
GCAGCATCATCAAGATT
GCAGCATCATCAAGATTC
GCAGCATCATCAAGA
CAGCATCATCAAGATTCACAT
CAGCATCATCAAGATTCACA
CAGCATCATCAAGATTCACA
CAGCATCATCAAGATTCACA
CAGCATCATCAAGATTCACA
AGCATCATCAAGATTCACAT
GCATCATCAAGATTCACA
CATCATCAAGATTCACAT

AGTCAGTATTCGCGGGTGCAGCATCATCAAGATTCACATACAGGGCAAGGGGCTACCTTTATCGATCGAGTAAATGTTACCGCACCATAAGAATATTCTCAACTTCCTTTTGACTTGAAAGGTAGTTCCTTCGAAGTGGGAATCTTGATGATGCTGCATCAGCTGGTACATGACT

mdm-miR172j

mdm-miR172j*: GCAGCATCATCAAGATTCACA

GSM80652_apple_leaf	GSM80653_apple_root	GSM80655_apple_fruit	GSM80654_apple_flower	Total
0.04	0	0	0	0.04
0.13	0.05	1.08	0.74	2
0.42	0.1	23.91	2.57	27
0	0	0.32	0.18	0.5
0	0	0.22	0	0.22
0	0	0.11	0	0.11
0	0	0.22	0	0.22
0.17	0	3.34	2.02	5.53
0	0	0.22	0	0.22
0	0	0.11	0	0.11
0	0	0	0.18	0.18
0	0	0	0.18	0.18
0	0	0.43	0.18	0.61
0	0	0	0.18	0.18
0	0.05	0	0	0.05
0.17	0.1	0.11	0	0.38
0	0.05	0	0	0.05
8.62	0.34	26.82	52.01	87.79
0	0	0	0.18	0.18
0.04	0	0.22	0.18	0.44
0	0	0.22	0.37	0.59
0	0	0.43	0.37	0.8
0	0	0	0.37	0.37
0	0	0.11	0	0.11
7.79	0.29	0.43	2.21	10.72
0	0	0	0.37	0.37
0	0	0.11	0	0.11
0	0	0.22	0	0.22
0	0	0	0.18	0.18
0	0	0	0.74	0.74
0	0	0.11	0	0.11
0	0	0.11	0	0.11
0.54	0	0.54	1.47	2.55
0.88	0	0.11	0.37	1.36
0	0	0	0.18	0.18
2.34	0	0.22	0.37	2.93
0	0	0.22	0.18	0.18
0.8	0	0.22	0.37	1.39
0.59	0	0	0.18	0.77

>mdm-miR172k MI0023066

CAGTATTGCGGGTGCAGCATCATC
GCAGCATCATCAAGATTCAC
GCAGCATCATCAAGATTCACA
GCAGCATCATCAAGATTCACAT
GCAGCATCATCAAGATTCACAT
GCAGCATCATCAAGATTC
GCAGCATCATCAAGA
CAGCATCATCAAGATTCACAT
CAGCATCATCAAGATTCACA
CAGCATCATCAAGATTCACA
CAGCATCATCAAGATTCACA
AGCATCATCAAGATTCACAT
GCATCATCAAGATTCACA
CATCATCAAGATTCACAT

GSM80652_apple_leaf	GSM80653_apple_root	GSM80655_apple_fruit	GSM80654_apple_flower	Total
0.04	0	0	0	0.04
0.13	0.05	1.08	0.74	2
0.42	0.1	23.91	2.57	27
0	0	0.32	0.18	0.5
0	0	0.22	0	0.22
0	0	0.11	0	0.11
0	0	0.22	0	0.22
0.17	0	3.34	2.02	5.53
0	0	0.22	0	0.22
0	0	0.11	0	0.11
0	0	0	0.18	0.18
0	0	0	0.18	0.18
0	0	0.43	0.18	0.61
0	0	0	0.18	0.18
0	0.05	0	0	0.05
0.17	0.1	0.11	0	0.38
0	0.05	0	0	0.05
8.62	0.34	26.82	52.01	87.79
0	0	0	0.18	0.18
0.04	0	0.22	0.18	0.44
0	0	0.22	0.37	0.59
0	0	0.43	0.37	0.8
0	0	0	0.37	0.37
0	0	0.11	0	0.11
7.79	0.29	0.43	2.21	10.72
0	0	0	0.37	0.37
0	0	0.11	0	0.11
0	0	0.22	0	0.22
0	0	0	0.18	0.18
0	0	0	0.74	0.74
0	0	0.11	0	0.11
0	0	0.11	0	0.11
0.54	0	0.54	1.47	2.55
0.88	0	0.11	0.37	1.36
0	0	0	0.18	0.18
2.34	0	0.22	0.37	2.93
0	0	0	0.18	0.18
0.8	0	0.22	0.37	1.39
0.59	0	0	0.18	0.77

AGTCAGTATTGCGGGTGCAGCATCATCAAGATTCACATACAGGCAAGGGGGTACCTTTATCGATCGAGTAAATTGTTACCGCACCAATAAGAAATATTTCTTCACTTCTTTTGTACTTGAAGGTAGTTCCTTCGAAGTGGGAATCTTGATGATGCTGCATCAGCTGGTACATGACT

mdm-miR172k

mdm-miR172k*: GCAGCATCATCAAGATTCACA

>mdm-miR1721 MI0023067

CAGTATTCGGGGTGCAGCATCATC
GCAGCATCATCAAGATTCAC
GCAGCATCATCAAGATTCACAT
GCAGCATCATCAAGATTCACA
GCAGCATCATCAAGATT
GCAGCATCATCAAGATTC
GCAGCATCATCAGA
CAGCATCATCAAGATTCACA
CAGCATCATCAAGATTCACA
CAGCATCATCAAGATTCACA
CAGCATCATCAAGATTCACAT
CAGCATCATCAAGATT
AGCATCATCAAGATTCACAT
GCATCATCAAGATTCACA
CATCATCAAGATTCACAT
AGTCAGTATTCGGGGTGCAGCATCATCAAGATTCACATACCTTAGCAAGGGGGTACCTTTAGCGATCGAGTAAATTGGTACCACACCAATATGAATATTCCTTCAACTTCCTTTTGACTTGAAAGGTAGTTCCTCGAAGTGGGAATCTTGATGATGCTGCAGCAGCTGGTACATGACT

Table with 5 columns: GSM80652_apple_leaf, GSM80653_apple_root, GSM80655_apple_fruit, GSM80654_apple_flower, Total. It contains a list of miRNA sequences and their corresponding expression values across the four tissue types and a total row.

mdm-miR1721

mdm-miR1721*: GCAGCATCATCAAGATTCACA

>mdm-miR172n MI0023069

CTTTTTCGGGTGGAGCATCAT
 CGGGTGGAGCATCATCAAGATT
 GGAGCATCATCAAGATTCAC
 GGAGCATCATCAAGATTCACA
 GGAGCATCATCAAGATTCA
 GAGCATCATCAAGATTCACA
 GCATCATCAAGATTCACA

TGAGAATCTTGATGATGCTGCA
 GAGAATCTTGATGATGCTGCA
 GAGAATCTTGATGATGCTGAG
 AGAATCTTGATGATGCTGCAGC
 AGAATCTTGATGATGCTGCG
 AGAATCTTGATGATG
 AGAATCTTGATGATGCT
 AGAATCTTGATGATGCTGCAG
 AGAATCTTGATGATGCTGCA
 AGAATCTTGATGATGCTG
 AGAATCTTGATGATGCTG
 GAATCTTGATGATGCT
 GAATCTTGATGATGCTGCA
 GAATCTTGATGATGCTG
 GAATCTTGATGATGCTGCAG
 GAATCTTGATGATGCTGCG
 AATCTTGATGATGCTGCG
 AATCTTGATGATGCTG
 AATCTTGATGATGCTGCT
 AATCTTGATGATGCTGCAG
 ATCTTGATGATGCTGCG
 TCTTGATGATGCTGCAG
 TCTTGATGATGCTGCG
 CTTGATGATGCTGCAG

GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
0.18	0	0	0	0.18
0.37	0	0	0	0.37
0.37	0.1	0.11	0	0.58
3.49	0.73	3.88	0	8.1
0	0.05	0	0	0.05
0	0	0.22	0	0.22
0.18	0	0.43	0	0.61
0	0	0	0.17	0.17
1.65	0.15	0.11	0.88	2.79
0.18	0	0	0	0.18
0	0	0.11	0	0.11
6.98	0.05	2.15	0.21	9.39
0.18	0	0.22	0.13	0.53
15.25	0	1.51	0.13	16.89
449.88	13.51	47.72	1.38	512.49
9.92	0.24	2.26	10.26	22.68
6.06	0.05	0.75	0.04	6.9
11.76	0	0.86	0.13	12.75
0	0	0.11	0	0.11
0	0	0.22	0	0.22
0.37	0	0	0	0.37
1.1	0.15	0	0	1.25
0.18	0	0	0	0.18
0	0	0.11	0	0.11
0	0	0.11	0	0.11
0.74	0	0	0	0.74
0.37	0	0	0	0.37
0.18	0	0	0	0.18
0.18	0.05	0	0	0.23
0.18	0	0	0	0.18
0.18	0	0	0	0.18

GGTCACTTTTTCGGGTGGAGCATCATCAAGATTCACAATCTTACTTGGGTTCTAGTTTTTAACCCCAATTTGATGATGAGAATCTTGATGATGCTGCAGCAGCAATAATGACT

mdm-miR172n

mdm-miR172n*: GGAGCATCATCAAGATTCACA

>mdm-MIR172o MI0023070

TTTGCGGGTGGAGCATCTTCA
 GGAGCATCTTCAAGATTCAC
 GGAGCATCTTCAAGATTCACA
 GAGCATCTTCAAGATTCACA
 CATCTTCAAGATTCAC

TTAGCCCCATTGATGATGAGAACTTGA
 TGAGAATCTTGATGATGCTGCA
 GAGAATCTTGATGATGCTGCAG
 GAGAATCTTGATGATGCTGCAG
 AGAATCTTGATGATG
 AGAATCTTGATGATGCTG
 AGAATCTTGATGATGCTGCA
 AGAATCTTGATGATGCTGCAG
 AGAATCTTGATGATGCTGCAG
 AGAATCTTGATGATGCTGCAG
 AGAATCTTGATGATGCTGCAG
 AGAATCTTGATGATGCTGCAG
 GAAATCTTGATGATGCTG
 GAAATCTTGATGATGCTG
 GAAATCTTGATGATGCTGCAG
 GAAATCTTGATGATGCTGCAG
 GAAATCTTGATGATGCTGCAG
 GAAATCTTGATGATGCTGCAG
 AATCTTGATGATGCTG
 AATCTTGATGATGCTG
 AATCTTGATGATGCTG
 AATCTTGATGATGCTG
 AATCTTGATGATGCTGCAG
 AATCTTGATGATGCTGCAG
 ATCTTGATGATGCTGCAG
 TCTTGATGATGCTGCAG
 TCTTGATGATGCTGCAG
 TCTTGATGATGCTGCAG
 CTCTTGATGATGCTGCAG

AGTCACCTTTTGGCGGGTGGAGCATCTTCAAGATTCACAATCTTATTTGGGCTCCAATTTAGCCCCATTGATGATGAGAACTTCTTGATGATGCTGCAGCGGCAATAAATGACT

mdm-miR172o

GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
0.05	0	0	0	0.05
0.39	0	0.11	0	0.5
0.53	21.5	4.95	0	26.98
0	0.18	0	0	0.18
0.05	0	0	0	0.05
0	0	0.11	0	0.11
0	0	0	0.17	0.17
0	0.18	0	0	0.18
0.15	1.65	0.11	0.88	2.79
0	0.18	0.22	0.13	0.53
0.05	6.06	0.75	0.04	6.9
0.24	9.92	2.26	10.26	22.68
13.51	449.88	47.72	1.38	512.49
0	0	0.11	0	0.11
0	11.76	0.86	0.13	12.75
0.05	6.98	2.15	0.21	9.39
0	15.25	1.51	0.13	16.89
0	0.37	0	0	0.37
0.15	1.1	0	0	1.25
0	0	0.22	0	0.22
0	0.18	0	0	0.18
0	0	0.11	0	0.11
0	0.74	0	0	0.74
0	0	0.11	0	0.11
0	0.37	0	0	0.37
0	0	0.11	0	0.11
0	0.18	0	0	0.18
0.05	0.18	0	0	0.23
0	0.18	0	0	0.18
0	0.18	0	0	0.18
0	0.18	0	0	0.18

mdm-miR172o*: GGAGCATCTTCAAGATTCACA

>mdm-MIR2111a MI0023118

	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	Total
ATTGGGTAATCTGCATCCTGAG	0.37	0	0	0	0.37
GTAATCTGCATCCTGAGGTTT	0	0.04	0	0	0.04
TAAATCTGCATCCTGAGGTTA	0.92	1.72	3.11	0	5.75
TAATCTGCATCCTGAGGTT	0	0.04	0.97	0	1.01
TAATCTGCATCCTGAGGTTT	0.37	0.54	1.51	0	2.42
TAATCTGCATCCTGAGGT	0	0	0.05	0	0.05
TAATCTGCATCCTGAGGTTAG	0	0	0.05	0	0.05
AAATCTGCATCCTGAGGTTTA	0	0.04	0	0	0.04
CTGCATCCTGAGGTTTAGAT	0.18	0	0	0	0.18
TGCATCCTGAGGTTTAGATCA	0	0.04	0	0	0.04
ATCTAGTCCTTGGGATGCAGA	0.37	0.04	0.05	0	0.46
CTAGTCCTTGGGATGCAGATTACC	0.55	0	0.05	0.11	0.71
CTAGTCCTTGGGATGCAGATTAC	0.18	0	0	0	0.18
CTAGTCCTTGGGATGCAGATT	0	0	0	0.22	0.22
GTCCTTGGGATGCAGATTACC	0	0.04	0.53	0.43	1
TCCTTGGGATGCAGATTACCT	0.37	0.38	0.05	0.11	0.91
TCCTTGGGATGCAGATTACC	0	0	0.1	0	0.1
TTGGGATGCAGATTACCTTGT	0	1.42	0.49	0	1.91
TTGGGATGCAGATTACC	0	0.04	0	0	0.04
TGGGATGCAGATTACCTTGTC	0	0.08	0.1	0	0.18
TGGGATGCAGATTACCTTGTC	0	0.04	0	0	0.04
ATGCAGATTACCTTGTCCTTGC	0.37	0	0	0	0.37
ATGCAGATTACCTTGTCCTTGC	0	0.08	0	0.11	0.19
GGTTAGGATTGGGTAATCTGCATCCTGAGGTTTAGATCAGCACACACGTATTTGTTGTATCTAGTCCTTGGGATGCAGATTACCTTGTCCTTGGCC					

mdm-miR2111a

mdm-miR2111a*: GTCCTTGGGATGCAGATTACC

>mdm-MIR2111b MI0023119

	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	Total
ATTGGGTAATCTGCATCCTGAG	0.37	0	0	0	0.37
GTAATCTGCATCCTGAGGTTT	0	0.04	0	0	0.04
TAATCTGCATCCTGAGGTT	0	0.04	0.97	0	1.01
TAATCTGCATCCTGAGGTTTA	0.92	1.72	3.11	0	5.75
TAATCTGCATCCTGAGGTTT	0.37	0.54	1.51	0	2.42
TAATCTGCATCCTGAGGT	0	0	0.05	0	0.05
TAATCTGCATCCTGAGGTTTAG	0	0	0.05	0	0.05
AAATCTGCATCCTGAGGTTTA	0	0.04	0	0	0.04
CTGCATCCTGAGGTTTAGAT	0.18	0	0	0	0.18
TGCATCCTGAGGTTTAGATCA	0	0.04	0	0	0.04
ATCTAGTCCTTGGGATGCAGA	0.37	0.04	0.05	0	0.46
CTAGTCCTTGGGATGCAGATTACC	0.55	0	0.05	0.11	0.71
CTAGTCCTTGGGATGCAGATT	0	0	0	0.22	0.22
CTAGTCCTTGGGATGCAGATTAC	0.18	0	0	0	0.18
GTCCTTGGGATGCAGATTACC	0	0.04	0.53	0.43	1
TCCTTGGGATGCAGATTACCT	0.37	0.38	0.05	0.11	0.91
TCCTTGGGATGCAGATTACC	0	0	0.1	0	0.1
TGGGATGCAGATTACC	0	0.04	0	0	0.04
TGGGATGCAGATTACCTTGT	0	1.42	0.49	0	1.91
TGGGATGCAGATTACCTTGTC	0	0.04	0	0	0.04
TGGGATGCAGATTACCTTGCC	0	0.08	0.1	0	0.18
GATATTGGGTTAGGATTGGGTAATCTGCATCCTGAGGTTTAGATCAGCACACACGTAACCTGTTGTATCTAGTCCTTGGGATGCAGATTACCTTGTCCTCACGCCAATGC					

mdm-miR2111b

mdm-miR2111b*: GTCCTTGGGATGCAGATTACC

>mdm-MIR2118b MI0023139

	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	Total
GAGGTTGAGGAAGTTATA	0	0	0	0	0
GGTTGAGGAAGTTATAGGACTT	0	0.04	0	0	0.04
GGTTGAGGAAGTTATAGGACT	0	0.04	0	0	0.04
TGAGGAAGTTATAGGACTTAGT	0	0.04	0	0	0.04
GAGGAAGTTATAGGACTTAGTTG	0	0	0.11	0	0.11
TAGGACTTAGTTGCT	0.37	0	0	0	0.37
AGGACTTAGTTGCTCGGTGAGA	0	0.13	0	0.1	0.23
AGGACTTAGTTGCTCGGTGAGAA	0	0	0	0.05	0.05
GGACTTAGTTGCTCGGTGAGAA	0.18	0.04	0.32	0.19	0.73
GGACTTAGTTGCTCGGTGAA	0	0	0.54	0.05	0.59
ACTTAGTTGCTCGGTGAGAAA	0.18	0.04	0	0	0.22
CTCCTACCGATGCCACTAAGTC	0	0	0.22	0	0.22
TCCTACCGATGCCACTAAGTC	0	0	0.11	0	0.11
CCTACCGATGCCACTAAGTCCC	1.65	0	0.11	0	1.76
CCTACCGATGCCACTAAGTCC	0	0.04	0.54	0	0.58
CTACCGATGCCACTAAGTCCCA	1161.65	213.44	507.01	193.4	2075.5
CTACCGATGCCACTAA	5.51	0	0.65	0	6.16
CTACCGATGCCACTAAGTC	2.76	0.08	1.62	0.05	4.51
CTACCGATGCCACTAAGTCC	2.02	0.08	0.75	0.24	3.09
CTACCGATGCCACTAAGT	5.15	0.04	1.94	0.05	7.18
CTACCGATGCCACTA	3.49	0	1.08	0	4.57
CTACCGATGCCACTAAGTCCCAT	0.37	0.21	0.22	0.29	1.09
CTACCGATGCCACTAAG	7.35	0	0.97	0.05	8.37
CTACCGATGCCACTAAGTCCC	26.83	0.08	3.55	0.15	30.61
TACCGATGCCACTAAGTCCCA	9.19	2.3	7.22	3.74	22.45
TACCGATGCCACTAAGTCCC	1.29	0	0.43	0	1.72
TACCGATGCCACTAAGTCCCAT	0	0	0.11	0	0.11
TACCGATGCCACTAAG	1.47	0	0.65	0	2.12
TACCGATGCCACTAAGT	0.18	0	0.11	0	0.29
TACCGATGCCACTAA	0.92	0	0	0	0.92
ACCGATGCCACTAAGT	0.18	0	0.22	0	0.4
ACCGATGCCACTAAGTCCCA	11.03	0.08	2.48	0.1	13.69
ACCGATGCCACTAAGTCCC	0.37	0	0	0	0.37
ACCGATGCCACTAAGTC	0.55	0	0.11	0	0.66
ACCGATGCCACTAAG	4.78	0	0	0	4.78
CCGATGCCACTAAGTCCCA	2.76	0.13	1.08	0	3.97
CCGATGCCACTAAGTC	0.18	0	0	0	0.18
CGATGCCACTAAGTCCCA	3.86	0.29	1.4	0.19	5.74
CGATGCCACTAAGTCC	0.18	0	0	0	0.18
CGATGCCACTAAGTCCC	0.18	0	0	0	0.18
CGATGCCACTAAGTC	0.18	0	0	0	0.18
GATGCCACTAAGTCCC	0.18	0	0	0	0.18
GATGCCACTAAGTCCCA	1.65	0.08	0.32	0.15	2.2
ATGCCACTAAGTCCCA	0.74	0	0.11	0.05	0.9
TGCCACTAAGTCCCA	0.37	0	0.11	0	0.48
CCTAAGTCCCAGATTTCCTC	0.74	0	0	0	0.74
ACTAAGTCCCAGATTTCCTC	0.18	0	0	0	0.18
ACTAAGTCCCAGATTTCCT	0	0.04	0	0	0.04
TAAGTCCCAGATT	0.18	0	0	0	0.18
GTCCCAGATTTCCTCCTCCT	0.18	0	0	0	0.18
TCCCAGATTTCCTCCTCCTC	0.37	0	0.11	0	0.48
GAGGTTGAGGAAGTTATAGGACTTAGTTGCTCGGTGAGAAAACCTGATGATCTGGAGTCCTTCTTCTCCTACCGATGCCACTAAGTCCCAGATTTCCTCCTCCTC					

mdm-miR2118b

mdm-miR2118b*: GGACTTAGTTGCTCGGTGAGA

>mdm-miR2118c MI0023140

	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	Total
GAGGTTGAGGAAGTTATA	0.18	0	0	0	0.18
GGTTGAGGAAGTTATAGGACTT	0	0.04	0	0	0.04
GGTTGAGGAAGTTATAGGACT	0	0.04	0	0	0.04
TGAGGAAGTTATAGGACTTAGT	0	0.04	0	0	0.04
GAGGAAGTTATAGGACTTAGTTG	0	0	0.11	0	0.11
TAGGACTTAGTTGCT	0.37	0	0	0	0.37
AGGACTTAGTTGCTCGGTGAGA	0	0.13	0	0.1	0.23
AGGACTTAGTTGCTCGGTGAGAA	0	0	0	0.05	0.05
GGACTTAGTTGCTCGGTGAGA	0.18	0.04	0.32	0.19	0.73
GGACTTAGTTGCTCGGTGA	0	0	0.54	0.05	0.59
ACTTAGTTGCTCGGTGAGAAA	0.18	0.04	0	0	0.22
CTCCTACCGATGCCACTAAGTC	0	0	0.22	0	0.22
TCCTACCGATGCCACTAAGTC	0	0	0.11	0	0.11
CCTACCGATGCCACTAAGTCCC	1.65	0	0.11	0	1.76
CCTACCGATGCCACTAAGTCC	0	0.04	0.54	0	0.58
CTACCGATGCCACTAAGTCCCA	1161.65	213.44	507.01	193.4	2075.5
CTACCGATGCCACTAA	5.51	0	0.65	0	6.16
CTACCGATGCCACTAAGTC	2.76	0.08	1.62	0.05	4.51
CTACCGATGCCACTAAGTCC	2.02	0.08	0.75	0.24	3.09
CTACCGATGCCACTAAGT	5.15	0.04	1.94	0.05	7.18
CTACCGATGCCACTA	3.49	0	1.08	0	4.57
CTACCGATGCCACTAAGTCCCAT	0.37	0.21	0.22	0.29	1.09
CTACCGATGCCACTAAG	7.35	0	0.97	0.05	8.37
CTACCGATGCCACTAAGTCCC	26.83	0.08	3.55	0.15	30.61
TACCGATGCCACTAAGTCCCA	9.19	2.3	7.22	3.74	22.45
TACCGATGCCACTAAGTCCC	1.29	0	0.43	0	1.72
TACCGATGCCACTAAGTCCCAT	0	0	0.11	0	0.11
TACCGATGCCACTAAG	1.47	0	0.65	0	2.12
TACCGATGCCACTAAGT	0.18	0	0.11	0	0.29
TACCGATGCCACTAA	0.92	0	0	0	0.92
ACCGATGCCACTAAGT	0.18	0	0.22	0	0.4
ACCGATGCCACTAAGTCCCA	11.03	0.08	2.48	0.1	13.69
ACCGATGCCACTAAGTCCC	0.37	0	0	0	0.37
ACCGATGCCACTAAGTC	0.55	0	0.11	0	0.66
ACCGATGCCACTAAG	4.78	0	0	0	4.78
CCGATGCCACTAAGTCCCA	2.76	0.13	1.08	0	3.97
CCGATGCCACTAAGTC	0.18	0	0	0	0.18
CGATGCCACTAAGTCCCA	3.86	0.29	1.4	0.19	5.74
CGATGCCACTAAGTCC	0.18	0	0	0	0.18
CGATGCCACTAAGTCCC	0.18	0	0	0	0.18
CGATGCCACTAAGTC	0.18	0	0	0	0.18
GATGCCACTAAGTCCC	0.18	0	0	0	0.18
GATGCCACTAAGTCCCA	1.65	0.08	0.32	0.15	2.2
ATGCCACTAAGTCCC	0.74	0	0.11	0.05	0.9
TGCCACTAAGTCCCA	0.37	0	0.11	0	0.48
CACTAAGTCCCATGATTTCCCTC	0.74	0	0	0	0.74
ACTAAGTCCCATGATTTCCCTC	0.18	0	0	0	0.18
ACTAAGTCCCATGATTTCCCT	0	0.04	0	0	0.04
TAAGTCCCATGATTT	0.18	0	0	0	0.18
GTCCCATGATTTCCCTCCCT	0.18	0	0	0	0.18
TCCCATGATTTCCCTCCCTC	0.37	0	0.11	0	0.48

GAGGTTGAGGAAGTTATAGGACTTAGTTGCTCGGTGAGAAAACCTGATGATCTGGAGTCCCTCTCCTACCGATGCCACTAAGTCCCATGATTTCCCTCCCTC

mdm-miR2118c

mdm-miR2118c*: GGACTTAGTTGCTCGGTGAGA

>mdm-miR319a MI0023071

AGAGCTTCTTTAGTCCATTC
AGCTTCTTTAGTCCA
ATGGGTGGCGACAGGATTTAAT
TAGCTGCCGAGTCATTCATCC
TAGCTGCCGAGTCATTCATCCA
AGCTGCCGAGTCATTCATCCA

TGTGAATGAAGCGGGAGACAAAT
TGTGAATGAAGCGGGAGACA
TGTGAATGAAGCGGG
GTGAATGAAGCGGGA

TGGATCTTGAGCTTCCTG

CTTGGACTGAAGGGAGCTC
CTTGGACTGAAGGGAGC
CTTGGACTGAAGGGAGCT
CTTGGACTGAAGGGAG
CTTGGACTGAAGGGA
CTTGGACTGAAGGGAGCTCCCT
CTTGGACTGAAGGGAGCTCCC
CTTGGACTGAAGGGAGCTCCC
TTGGACTGAAGGGAGCTCCT
TTGGACTGAAGGGAGCTC
TTGGACTGAAGGGAGCTCCC
TTGGACTGAAGGGAGC
TTGGACTGAAGGGAGCTCC
TTGGACTGAAGGGAGCT
TTGGACTGAAGGGAG
TTGGACTGAAGGGAGCTCCCTT
TTGGACTGAAGGGAGCTCCC
TTGGACTGAAGGGAGCTCCCTT
TGGACTGAAGGGAGCTCCT
TGGACTGAAGGGAGCTC
TGGACTGAAGGGAGCTCC
ACTGAAGGGAGCTCC

GCAGTGGTGAAGAGAGCTTCTTTAGTCCATTCATGGGTGGCGACAGGATTTAATAGCTGCCGAGTCATTCATCCAATACTGGGTTATTAGCTCAGGACGACCCAGTAAATGTGTGAATGAAGCGGGAGACAAATGGATCTTGAGCTTCTTACTTGGACTGAAGGGAGCTCCCTTAATTAATTAATTC

GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
0.18	0.05	0	0	0.23
0.18	0	0	0	0.18
0	0.1	0	0	0.1
0	0.05	0	0	0.05
0	0.63	0	0	0.63
0	0.19	0	0	0.19
0	0.24	0.11	0	0.35
0	0.05	0	0	0.05
0.18	0	0	0	0.18
0	0	0.11	0	0.11
0	0	0.11	0	0.11
0.92	0	2.8	0	3.72
0	0.05	0	0	0.05
0.18	0	0.11	0	0.29
0.55	0	0.97	0	1.52
0.55	0	0	0	0.55
0	1.17	0	0.04	1.21
0	0.97	0	0	0.97
0	0.39	0	0.08	0.47
0	13.71	0	0.13	13.84
2.57	0.19	12.39	0.04	15.19
0	5.54	0	0.5	6.04
0.18	0.05	0.11	0	0.34
0	0.39	0.11	0	0.5
0.37	0	0.54	0	0.91
0	0	1.83	0	1.83
0	0.63	0	0	0.63
0	0.1	0	0	0.1
0	0.1	0	0	0.1
0	0.24	0	0	0.24
0.18	0	0	0	0.18
0	0	0.54	0	0.54
0	0	0.22	0	0.22
0	0	0.11	0	0.11

mdm-miR319a

mdm-miR319a*: AGAGCTTCTTTAGTCCATTC

>mdm-miR319b MI0023072

GAGAGCTTCTCAGTCCACT
AGAGCTTCTCAGTCCACTC
AGAGCTTCTCAGTCCCA
AGAGCTTCTCAGTCCCA
AGAGCTTCTCAGTCCCA
AGAGCTTCTCAGTCCACT
GAGCTTCTCAGTCCACTCA
GAGCTTCTCAGTCCCA
GAGCTTCTCAGTCCACT
GAGCTTCTCAGTCCACTC

TAGCTGCCGAGTCATTCATCC
TAGCTGCCGAGTCATTCATCCA
AGCTGCCGAGTCATTCATCCA

TGTGAATGAAGCGGGAGACAAAT
TGTGAATGAAGCGGGAGACA
TGTGAATGAAGCGGG
GTGAATGAAGCGGGA

TTGGATCTTAAGCTTCCCTGTAC

CTTGGACTGAAGGGA
CTTGGACTGAAGGAG
CTTGGACTGAAGGAGCT
CTTGGACTGAAGGAGCTC
CTTGGACTGAAGGAGCTCC
CTTGGACTGAAGGAGCTCC
CTTGGACTGAAGGAGCTCCCT
CTTGGACTGAAGGAGC
TTGGACTGAAGGAGCTCC
TTGGACTGAAGGAGCT
TTGGACTGAAGGAGCTCC
TTGGACTGAAGGAGCTCCCT
TTGGACTGAAGGAGC
TTGGACTGAAGGAGCTC
TTGGACTGAAGGAG
TTGGACTGAAGGAGCTCCCT
TGGACTGAAGGAGCT
TGGACTGAAGGAGCTCC
TGGACTGAAGGAGCTCCCT
TGGACTGAAGGAGCTC
TGGACTGAAGGAGCTCC
TGGACTGAAGGAGCTCCCT
ACTGAAGGAGCTCC

GSM880655_apple_fruit	GSM880653_apple_root	GSM880654_apple_flower	GSM880652_apple_leaf	Total
0.22	0	0	0	0.22
0.65	0.39	2.76	0	3.8
0.54	0	0.18	0	0.72
0.32	0	0.18	0	0.5
0	0	0.92	0	0.92
0	0.05	0	0	0.05
0	0.05	0	0	0.05
0	0	0.18	0	0.18
0.32	0	0	0	0.32
0	0.05	0	0	0.05
0	0.63	0	0	0.63
0	0.19	0	0	0.19
0.11	0.24	0	0	0.35
0	0.05	0	0	0.05
0	0	0.18	0	0.18
0.11	0	0	0	0.11
0	0	0.18	0	0.18
0	0	0.55	0	0.55
0.97	0	0.55	0	1.52
0.11	0	0.18	0	0.29
2.8	0	0.92	0	3.72
0	0.97	0	0	0.97
0	0.39	0	0.08	0.47
0	1.17	0	0.04	1.21
0	0.05	0	0	0.05
0	5.54	0	0.5	6.04
0.54	0	0.37	0	0.91
0.11	0.39	0	0	0.5
0	13.71	0	0.13	13.84
0.11	0.05	0.18	0	0.34
12.39	0.19	2.57	0.04	15.19
1.83	0	0	0	1.83
0	0.63	0	0	0.63
0	0	0.18	0	0.18
0	0.1	0	0	0.1
0	0.24	0	0	0.24
0.54	0	0	0	0.54
0.22	0	0	0	0.22
0	0.1	0	0	0.1
0.11	0	0	0	0.11

GCAGTGGTGAAGAGAGCTTCTCAGTCCACTCATGGGTGGCGGTAGGATTTAATTAGCTGCCGAGTCATTCATCCAATACTGGGTATTAGTAGGATGACATCCAGTAAATGTGTGAATGAAGCGGGAGACAAATTTGGATCTTAAGCTTCCCTGTACTTGGACTGAAGGAGCTCCCTTAATTAATTACTTC

mdm-miR319b

mdm-miR319b*: AGAGCTTCTCAGTCCACTC

>mdm-miR319c MI0023162

GAGCTCTTCTTCAGTCCAG
GAGCTCTTCTTCAGTCC
GAGCTCTTCTTCAGTCCAGTC
GAGCTCTTCTTCAGTCCAGT
GAGCTCTTCTTCAGTCCAGTCC
GAGCTCTTCTTCAGTCCCA
AGCTCTTCTTCAGTCCAGTCC
GCTCTTCTTCAGTCCAGTCC
CTTCTTCAGTCCAGTCC
TTCTTCAGTCCAGTCC

TCAGCTGCTGACTCGTTGGTTCA
CAGCTGCTGACTCGTTGG
CAGCTGCTGACTCGTTG
CAGCTGCTGACTCGTTGGTTC
CAGCTGCTGACTCGTTGGTT
AGCTGCTGACTCGTTGGTTCA
AGCTGCTGACTCGTTGGTTTC
AGCTGCTGACTCGTTGG
AGCTGCTGACTCGTTGGT
AGCTGCTGACTCGTTGGTTCAA
AGCTGCTGACTCGTTGGTT
GCTGCTGACTCGTTGGTTCA
GCTGCTGACTCGTTGGTTTC
GCTGCTGACTCGTTGGT
GCTGACTCGTTGGTTCA

ATCCAACGAAGCAGGAGC
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ATCCAACGAAGCAGGAGCTGA
ATCCAACGAAGCAGGAG
ATCCAACGAAGCAGGAG
ATCCAACGAAGCAGGAGCTGA
TCCAACGAAGCAGGAGCTGA
TCCAACGAAGCAGGAGC
TCCAACGAAGCAGGAGCTGAG
TCCAACGAAGCAGGAG
CCAACGAAGCAGGAGC
CCAACGAAGCAGGAG
CCAACGAAGCAGGAGCTGA
CAACGAAGCAGGAGCT
AAGCAAGCAGGAGCTGA
ACGAACGAGGAGCTGA

TCTTGACTGAAGGGAGC
TCTTGACTGAAGGGAGCTC
TCTTGACTGAAGGGAG
TCTTGACTGAAGGGAGCTCCT
TCTTGACTGAAGGGAGCT
CTTGACTGAAGGGAGCTCC
CTTGACTGAAGGGAGCTC
CTTGACTGAAGGGA
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TTGACTGAAGGGAGCTC
TTGACTGAAGGGAGCT
TTGACTGAAGGGAGCTCCT
TTGACTGAAGGGAGCTC
GGACTGAAGGGAGCTCCT
ACTGAAGGGAGCTCCT
ACTGAAGGGAGCTCC
CTGAAGGGAGCTCCT

GSM80655_apple_fruit	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880653_apple_root	Total
0.43	0.18	0	0	0.61
0	0.18	0	0	0.18
2.8	0.92	0	0	3.72
0.11	0	0	0	0.11
13.36	0.92	0	0	14.28
0.11	0	0	0	0.11
0.32	0	0	0	0.32
0.11	0	0	0	0.11
0.11	0	0	0	0.11
0	0	0.04	0	0.04
0.11	0.18	0	0	0.29
0.11	0	0	0	0.11
0.22	0	0.42	0.19	0.83
0.22	0	0	0	0.22
8.19	4.96	12.06	5.25	30.46
0.97	0.37	0.04	0.97	2.35
0.43	0.18	0	0	0.61
0	0	0	0.05	0.05
0	0	0	0.05	0.05
0	0	0.04	0	0.04
0.32	0	0	0	0.32
0	0.18	0	0	0.18
0.11	0	0	0	0.11
0.11	0	0.04	0	0.15
5.17	1.1	0	0	6.27
0.11	0.18	0	0	0.29
31.45	13.6	0.21	0.24	45.5
0.11	0.18	0	0	0.29
0.86	0.55	0	0	1.41
0.86	0.55	0	0	1.41
0	0.37	0	0	0.37
0.65	0.37	0	0	1.02
0	0	0.04	0.05	0.09
0	0.18	0	0	0.18
0.11	0	0	0	0.11
0.22	0	0	0	0.22
0	0.18	0	0	0.18
0.11	0	0	0	0.11
0.11	0	0	0	0.11
0	0.18	0	0	0.18
0	0	0	0	0.11
0.11	0	0	0	0.11
0.22	0	0	0	0.22
0.32	0	0	0	0.32
0.22	0	0	0	0.22
0.11	0	0	0	0.11
0	0	0.08	0.39	0.47
2.8	0.92	0	0	3.72
0	0.55	0	0	0.55
0	0	0	0.05	0.05
22.19	6.43	0	0	28.62
0.11	0.18	0	0	0.29
0.97	0.55	0	0	1.52
31.78	9.56	0.04	0.05	41.43
0.11	0.18	0	0.05	0.34
12.39	2.57	0.04	0.19	15.19
0.11	0	0	0.39	0.5
0.54	0.37	0	0	0.91
1.83	0	0	0	1.83
0.54	0	0	0	0.54
0	0.18	0	0	0.18
2.69	0.92	0	0	3.61
0.22	0	0	0	0.22
0.22	0	0	0	0.22
32.64	9.74	0	0	42.38
0.11	0	0	0	0.11
0.11	0	0	0	0.11

AGGAGCTCTTCTTCAGTCCAGTCCGGGGCGRTTAAAGGGTGACACTCAGCTGACTGCTGTTGGTTCAAGAATCATCGTACAAATGCTAAAAGAAGTGGTGTGTTCTGATCCAACGAAGCAGGAGCTGAGAGTTGGTTATTGCAGTCGCGCTTGACTGAAGGGAGCTCCT

mdm-miR319c

mdm-miR319c*: AGCTGCTGACTCGTTGGTTCA

>mdm-MIR3627c MI0023122

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	Total
ATTTATGTTTCGCAGGAGAGATGGC	0.04	0	0	0	0.04
TATGTTTCGCAGGAGAGATGGC	0.04	0	0	0	0.04
TGTTTCGCAGGAGAGATGGCAC	0.08	0	0	0	0.08
TTCGCAGGAGAGATGGCAC	0.04	0	0	0	0.04
TTCGCAGGAGAGATGGCACTAA	0.17	0	0	0	0.17
TTCGCAGGAGAGATGGCACTA	0.25	0.19	0	0	0.44
TTCGCAGGAGAGATGGCACTAA	3.56	1.46	1.1	1.18	7.3
TTCGCAGGAGAGATGGCACTAAT	0.13	0.05	0	0	0.18
TTCGCAGGAGAGATGGCACTA	9.71	3.94	1.47	4.85	19.97
TTCGCAGGAGAGATGGCA	0	0	0	0.11	0.11
TTCGCAGGAGAGATGGC	0	0	0.18	0	0.18
TTCGCAGGAGAGATGGCAC	0.08	0	0.18	0	0.26
TTCGCAGGAGAGATGGCACT	0.04	0	0	0	0.04
CGCAGGAGAGATGGCACTA	0.04	0	0	0	0.04
AGGAGAGATGGCACTAATTGTACT	0.54	0.15	0	0	0.69
GGAGAGATGGCACTA	0	0	0	0.11	0.11
AGATGGCACTAATTGTACTGCAAT	0.08	0.05	0	0	0.13
	0.13	0.05	0	0.32	0.5
	0.04	0.05	0	0	0.09
GGGGATTTATGTTTCGCAGGAGAGATGGCACTAATTGTACTGCAATTGCGTCAACAATTGTTGCCATCTCTCCTGTGACCAAAATCTCT					

mdm-miR3627c

mdm-miR3627c*-1: GTTGCCATCTCTCCTGTGACC
mdm-miR3627c*-2: TTGCCATCTCTCCTGTGACCA

>mdm-MIR390a MI0023073

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	Total
AGAATCTGTAAGCTCAGGAGGGA	0.08	0	0	0	0.08
AATCTGTAAGCTCAGGAGGGATA	0.17	0	0	0	0.17
ATCTGTAAGCTCAGGAGGGATAGC	0.04	0.05	0	0	0.09
ATCTGTAAGCTCAGGAGGGATAG	0.13	0	0	0	0.13
ATCTGTAAGCTCAGGAGGGAT	0.04	0	0	0	0.04
AAAGCTCAGGAGGGATAGCGCCATA	0.04	0	0	0	0.04
AAAGCTCAGGAGGGATAGCGCC	0.08	0	0.18	0	0.26
AAAGCTCAGGAGGGATAGCGCCAT	0.04	0	0	0	0.04
AAGCTCAGGAGGGATAGCGCC	7.2	15.65	278.24	2.59	303.68
AAGCTCAGGAGGGATAG	0	0	198.48	3.34	201.82
AAGCTCAGGAGGGATAGCGCCA	0.25	0.83	1.29	0	2.37
AAGCTCAGGAGGGATAGCGC	0.08	0.53	23.52	0	24.13
AAGCTCAGGAGGGATAGCG	0.04	0.15	2.76	0	2.95
AAGCTCAGGAGGGATAGCGCCAT	0.04	0	0.18	0	0.22
AAGCTCAGGAGGGAT	0	0	0.74	0	0.74
AAGCTCAGGAGGGATAGC	0	0	6.43	0	6.43
AAGCTCAGGAGGGATA	0	0	2.39	0.11	2.5
AGCTCAGGAGGGATAGCGCC	0.04	0.05	1.47	0.11	1.67
AGCTCAGGAGGGATAG	0	0	1.65	0	1.65
AGCTCAGGAGGGATAGCGCCATAT	0	0	0	0.22	0.22
AGCTCAGGAGGGATAGCGC	0	0	0.92	0	0.92
AGCTCAGGAGGGATA	0	0	0.74	0	0.74
AGCTCAGGAGGGATAGC	0	0	0.18	0	0.18
GCTCAGGAGGGATAGCGCC	0	0	0.37	0	0.37
GCTCAGGAGGGATAG	0	0	0.18	0	0.18
GCTCAGGAGGGATAGCGC	0.04	0	0	0	0.04
GCTCAGGAGGGATAGCG	0	0	0.18	0	0.18
GCTCAGGAGGGATAGCGCCAT	0.04	0	0	0	0.04
CTCAGGAGGGATAGCGCCATA	0.33	0	0	0	0.33
CTCAGGAGGGATAGCGCCAT	0.08	0	0	0	0.08
CTCAGGAGGGATAGCGCCATAT	0.04	0	0	0	0.04
TCAGGAGGGATAGCGCC	0	0.05	0	0	0.05
AGGAGGGATAGCGCCATATGAACA	0.04	0	0.18	0.86	1.08
AGGAGGGATAGCGCC	0	0	0.18	0	0.18
AGGGATAGCGCCATATGAACAAG	0.21	0.15	0	0	0.36
ATAGCGCCATATGAACAAG	0	0.05	0	0	0.05
CCATATGAACAAGGGTCTATTT	0	0	0	0.32	0.32
CATATGAACAAGGGTCTATTTACT	0	0	0.37	0	0.37
GGTCTATTTACTAGTGGGCGTT	0.04	0	0	0	0.04
TTTCTTTGTTTCATCATCGGCTATC	0	0	0	0.11	0.11
CGCTATCCATCCTGAGTTTCA	2.85	0.44	159.7	1.51	164.5
CGCTATCCATCCTGAGTTTC	0.08	0.05	3.12	0	3.25
CGCTATCCATCCTGAG	0	0	2.39	0	2.39
CGCTATCCATCCTGA	0	0	0.18	0	0.18
CGCTATCCATCCTGAGTTTCAT	0	0	0.18	0	0.18
CGCTATCCATCCTGAGTT	0	0	0.55	0	0.55
CGCTATCCATCCTGAGTTT	0	0	1.1	0	1.1
GCTATCCATCCTGAGTTTCA	0	0	2.39	0.11	2.5
GCTATCCATCCTGAGTT	0	0	0.18	0	0.18
CTATCCATCCTGAGTTTCA	0	0	1.65	0	1.65
CTATCCATCCTGAGTTTC	0	0	0	0.11	0.11
TATCCATCCTGAGTTTCA	0	0	0.37	0	0.37
ATCCATCCTGAGTTTCA	0	0	0.18	0	0.18

AGTAAGGAGAATCTGTAAGCTCAGGAGGGATAGCGCCATATGAACAAGGGTCTATTTACTAGTGGGCGTTTCTTTGTTTCATCATCGGCTATCCATCCTGAGTTTTCATGGCTTCTTCATACT

mdm-miR390a

mdm-miR390a*: CGCTATCCATCCTGAGTTTCA

>mdm-miR390b MI0023074

	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	Total
AAGAATCTGTTAAGCTCAGGAGGG	0.04	0	0	0	0.04
TAAGCTCAGGAGGGATAG	0	0.18	0	0	0.18
TAAGCTCAGGAGGGATAGCGC	0	0.18	0	0	0.18
AAGCTCAGGAGGGATAGC	0	6.43	0	0	6.43
AAGCTCAGGAGGGATAGCG	0.04	2.76	0.15	0	2.95
AAGCTCAGGAGGGATA	0	2.39	0	0.11	2.5
AAGCTCAGGAGGGATAGCGCC	7.2	278.24	15.65	2.59	303.68
AAGCTCAGGAGGGATAGCGC	0.08	23.52	0.53	0	24.13
AAGCTCAGGAGGGATAG	0	198.48	0	3.34	201.82
AAGCTCAGGAGGGATAGCGCCAT	0.04	0.18	0	0	0.22
AAGCTCAGGAGGGAT	0	0.74	0	0	0.74
AAGCTCAGGAGGGATAGCGCCATT	0	1.29	0	0	1.29
AAGCTCAGGAGGGATAGCGCCA	0.25	1.29	0.83	0	2.37
AGCTCAGGAGGGATA	0	0.74	0	0	0.74
AGCTCAGGAGGGATAGCGC	0	0.92	0	0	0.92
AGCTCAGGAGGGATAGCGCC	0.04	1.47	0.05	0.11	1.67
AGCTCAGGAGGGATAGC	0	0.18	0	0	0.18
AGCTCAGGAGGGATAG	0	1.65	0	0	1.65
GCTCAGGAGGGATAGCGCCATT	0	0.18	0	0	0.18
GCTCAGGAGGGATAG	0	0.18	0	0	0.18
GCTCAGGAGGGATAGCGCC	0	0.37	0	0	0.37
GCTCAGGAGGGATAGCGCCAT	0.04	0	0	0	0.04
GCTCAGGAGGGATAGCGC	0.04	0	0	0	0.04
GCTCAGGAGGGATAGCG	0	0.18	0	0	0.18
CTCAGGAGGGATAGCGCCATT	0.04	0	0	0	0.04
CTCAGGAGGGATAGCGCCAT	0.08	0	0	0	0.08
TCAGGAGGGATAGCGCC	0	0	0.05	0	0.05
CAGGAGGGATAGCGCCATTCT	0.08	0	0	0	0.08
AGGAGGGATAGCGCC	0	0.18	0	0	0.18
ATTCTCGGTTTGGTTTAACCACATATAG	0	1.1	0	0	1.1
ATTCTCGGTTTGGTTTAACCAC	0	0.18	0	0	0.18
CGCTATCCATCCTGAGTTTCA	2.85	159.7	0.44	1.51	164.5
CGCTATCCATCCTGA	0	0.18	0	0	0.18
CGCTATCCATCCTGAGTTTCAAT	0	0.18	0	0	0.18
CGCTATCCATCCTGAGTTT	0	1.1	0	0	1.1
CGCTATCCATCCTGAGTTTC	0.08	3.12	0.05	0	3.25
CGCTATCCATCCTGAG	0	2.39	0	0	2.39
CGCTATCCATCCTGAGTT	0	0.55	0	0	0.55
GCTATCCATCCTGAGTTTCA	0	2.39	0	0.11	2.5
GCTATCCATCCTGAGTT	0	0.18	0	0	0.18
CTATCCATCCTGAGTTTCA	0	1.65	0	0	1.65
CTATCCATCCTGAGTTTC	0	0	0	0.11	0.11
TATCCATCCTGAGTTTCA	0	0.37	0	0	0.37
ATCCATCCTGAGTTTCA	0	0.18	0	0	0.18
GTGTGGAAGAATCTGTTAAGCTCAGGAGGGATAGCGCCATTCTCGGTTTGGTTTAACCACATATAGCGCTATCCATCCTGAGTTTCA					

mdm-miR390b

mdm-miR390b*: CGCTATCCATCCTGAGTTTCA

>mdm-miR390c MI0023075

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	Total
AGGATCTGTAAGCTCAGGAGGGA	0	0	0	0	0.04
ATCTGTAAGCTCAGGAGGGATAGC	0.04	0.05	0	0	0.09
ATCTGTAAGCTCAGGAGGGATAG	0.13	0	0	0	0.13
ATCTGTAAGCTCAGGAGGGAT	0.04	0	0	0	0.04
AAAGCTCAGGAGGGATAGCGCCAG	0.08	0	0	0	0.08
AAAGCTCAGGAGGGATAGCGCC	0.08	0	0.18	0	0.26
AAGCTCAGGAGGGATAG	0	0	198.48	3.34	201.82
AAGCTCAGGAGGGATAGCGC	0.08	0.53	23.52	0	24.13
AAGCTCAGGAGGGATAGCG	0.04	0.15	2.76	0	2.95
AAGCTCAGGAGGGATAGCGCC	7.2	15.65	278.24	2.59	303.68
AAGCTCAGGAGGGAT	0	0	0.74	0	0.74
AAGCTCAGGAGGGATAGCGCCA	0.25	0.83	1.29	0	2.37
AAGCTCAGGAGGGATAGC	0	0	6.43	0	6.43
AAGCTCAGGAGGGATA	0	0	2.39	0.11	2.5
AGCTCAGGAGGGATAG	0	0	1.65	0	1.65
AGCTCAGGAGGGATAGC	0	0	0.18	0	0.18
AGCTCAGGAGGGATAGCGCC	0.04	0.05	1.47	0.11	1.67
AGCTCAGGAGGGATA	0	0	0.74	0	0.74
AGCTCAGGAGGGATAGCGC	0	0	0.92	0	0.92
GCTCAGGAGGGATAG	0	0	0.18	0	0.18
GCTCAGGAGGGATAGCGCC	0	0	0.37	0	0.37
GCTCAGGAGGGATAGCGC	0.04	0	0	0	0.04
GCTCAGGAGGGATAGCG	0	0	0.18	0	0.18
TCAGGAGGGATAGCGCCAGAT	2.01	0.53	0	0	2.54
TCAGGAGGGATAGCGCCAGA	0.17	0	0	0	0.17
TCAGGAGGGATAGCGCC	0	0.05	0	0	0.05
CAGGAGGGATAGCGCCAGATG	1.8	0.24	0	0	2.04
AGGAGGGATAGCGCC	0	0	0.18	0	0.18
AGGGATAGCGCCAGATGAATTAAC	0.04	0	0	0	0.04
AACCAAGATTCTAACAATTAAGCG	0.04	0	0	0	0.04
ACAATTAAGCGTTTAT	0	0	0.18	0.11	0.11
	0.13	0.19	0.18	0	0.5
TGCTATCCATCCTGAGTTTCA	0	0.05	0	0	0.05
TGCTATCCATCCTGAGTTT	0	0	2.39	0.11	2.5
GCTATCCATCCTGAGTTTCA	0	0	0.18	0	0.18
GCTATCCATCCTGAGTT	0	0	1.65	0	1.65
CTATCCATCCTGAGTTTCA	0	0	0	0.11	0.11
CTATCCATCCTGAGTTT	0	0	0	0	0.11
TATCCATCCTGAGTTTCA	0	0.37	0	0	0.37
ATCCATCCTGAGTTTCA	0	0	0.18	0	0.18
AGTAAGGGAGGATCTGTAAGCTCAGGAGGGATAGCGCCAGATGAATTAACCAAGATTCTAACAATTAAGCGTTTATTTGGTCATCATCTGATGCTATCCATCCTGAGTTTCAATGGCTTCTTCTTACT					

mdm-miR390c

mdm-miR390c*: TGCTATCCATCCTGAGTTTCA

>mdm-miR390d MI0023076

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	Total
AGGATCTGTAAAGCTCAGGAGGGA	0.04	0	0	0	0.04
ATCTGTAAAGCTCAGGAGGATAG	0.13	0	0	0	0.13
ATCTGTAAAGCTCAGGAGGAT	0.04	0	0	0	0.04
ATCTGTAAAGCTCAGGAGGATAGC	0.04	0.05	0	0	0.09
AAAGCTCAGGAGGATAGCGCC	0.08	0	0.18	0	0.26
AAAGCTCAGGAGGATAGCGCCAG	0.08	0	0	0	0.08
AAGCTCAGGAGGATAGCGC	0.08	0.53	23.52	0	24.13
AAGCTCAGGAGGATAG	0	0	198.48	3.34	201.82
AAGCTCAGGAGGATAGCGCC	7.2	15.65	278.24	2.59	303.68
AAGCTCAGGAGGATAGCG	0.04	0.15	2.76	0	2.95
AAGCTCAGGAGGATAGC	0	0	6.43	0	6.43
AAGCTCAGGAGGAT	0	0	0.74	0	0.74
AAGCTCAGGAGGATAGCGCA	0.25	0.83	1.29	0	2.37
AAGCTCAGGAGGATA	0	0	2.39	0.11	2.5
AGCTCAGGAGGATAGCGCC	0.04	0.05	1.47	0.11	1.67
AGCTCAGGAGGATAG	0	0	1.65	0	1.65
AGCTCAGGAGGATAGCGC	0	0	0.92	0	0.92
AGCTCAGGAGGATAGC	0	0	0.18	0	0.18
AGCTCAGGAGGATA	0	0	0.74	0	0.74
GCTCAGGAGGATAGCGCC	0	0	0.37	0	0.37
GCTCAGGAGGATAG	0	0	0.18	0	0.18
GCTCAGGAGGATAGCG	0	0	0.18	0	0.18
GCTCAGGAGGATAGCGC	0.04	0	0	0	0.04
TCAGGAGGATAGCGCCAGAT	2.01	0.53	0	0	2.54
TCAGGAGGATAGCGCC	0	0.05	0	0	0.05
TCAGGAGGATAGCGCCAGA	0.17	0	0	0	0.17
CAGGAGGATAGCGCCAGATG	1.8	0.24	0	0	2.04
AGGAGGATAGCGCC	0	0	0.18	0	0.18
AGGATAGCGCCAGATGATTAAC	0.04	0	0	0	0.04
AGGATAGCGCCAGATGATTAAC	0.04	0	0	0	0.04
AACCAAGATTCTAACAAATTAAGCG	0	0	0	0.11	0.11
ACAATTAAGCGTTTAT	0	0	2.39	0.11	2.5
GCTATCCATCCTGAGTTTCA	0	0	0.18	0	0.18
GCTATCCATCCTGAGTT	0	0	1.65	0	1.65
CTATCCATCCTGAGTTTCA	0	0	0	0.11	0.11
CTATCCATCCTGAGTTTC	0	0	0.37	0	0.37
TATCCATCCTGAGTTTCA	0	0	0.18	0	0.18
ATCCATCCTGAGTTTCA	0	0	0	0	0

AGTAAGGAGGATCTGTAAAGCTCAGGAGGATAGCGCCAGATGAATTAACCAAGATTCTAACAAATTAAGCGTTTATTTGGTCATCATCTGARGCTATCCATCCTGAGTTTTCATGGCTTCTTCTTACT

mdm-miR390d

mdm-miR390d*: GCTATCCATCCTGAGTTTCA

>mdm-MIR390e MI0023077

	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	Total
AAGAATCTGTTAAGCTCAGGAGGG	0.04	0	0	0	0.04
TAAGCTCAGGAGGGATAG	0	0.18	0	0	0.18
TAAGCTCAGGAGGGATAGCGC	0	0.18	0	0	0.18
AAGCTCAGGAGGGATAGCGC	0.08	23.52	0.53	0	24.13
AAGCTCAGGAGGGATAGC	0	6.43	0	0	6.43
AAGCTCAGGAGGGATAGCG	0.04	2.76	0.15	0	2.95
AAGCTCAGGAGGGATAG	0	198.48	0	3.34	201.82
AAGCTCAGGAGGGATAGCGCC	7.2	278.24	15.65	2.59	303.68
AAGCTCAGGAGGGATA	0	2.39	0	0.11	2.5
AAGCTCAGGAGGGATAGCGCCAT	0.04	0.18	0	0	0.22
AAGCTCAGGAGGGAT	0	0.74	0	0	0.74
AAGCTCAGGAGGGATAGCGCCATT	0	1.29	0	0	1.29
AAGCTCAGGAGGGATAGCGCCA	0.25	1.29	0.83	0	2.37
AGCTCAGGAGGGATAGCGCC	0.04	1.47	0.05	0.11	1.67
AGCTCAGGAGGGATAG	0	1.65	0	0	1.65
AGCTCAGGAGGGATAGC	0	0.18	0	0	0.18
AGCTCAGGAGGGATA	0	0.74	0	0	0.74
AGCTCAGGAGGGATAGCGC	0	0.92	0	0	0.92
GCTCAGGAGGGATAGCGCC	0	0.37	0	0	0.37
GCTCAGGAGGGATAG	0	0.18	0	0	0.18
GCTCAGGAGGGATAGCGCCATT	0	0.18	0	0	0.18
GCTCAGGAGGGATAGCG	0	0.18	0	0	0.18
GCTCAGGAGGGATAGCGCCAT	0.04	0	0	0	0.04
GCTCAGGAGGGATAGCGC	0.04	0	0	0	0.04
CTCAGGAGGGATAGCGCCAT	0.08	0	0	0	0.08
CTCAGGAGGGATAGCGCCATT	0.04	0	0	0	0.04
TCAGGAGGGATAGCGCC	0	0	0.05	0	0.05
CAGGAGGGATAGCGCCATTCT	0.08	0	0	0	0.08
AGGAGGGATAGCGCC	0	0.18	0	0	0.18
ATTCTCGGTTTGGTTTAACCAC	0	0.18	0	0	0.18
	0.04	1.65	0.05	0	1.74
CGCTATCCATCTTGGGCTTC	0.96	88.58	2.04	0.75	92.33
CGCTATCCATCTTGGGCTTCA	0	0.55	0	0	0.55
CGCTATCCATCTTGGGCT	0	0.37	0	0	0.37
CGCTATCCATCTTGGGCT	0	0.92	0	0	0.92
GCTATCCATCTTGGGCTTCA	0.04	1.1	0.05	0.32	1.51
GCTATCCATCTTGGGCTT	0	0	0	0.11	0.11
CTATCCATCTTGGGCTTCA	0	0.37	0	0	0.37
TATCCATCTTGGGCTTCA	0	0.37	0	0	0.37
ATCCATCTTGGGCTTCA	0	0.18	0	0	0.18

AGTGTGGAAGAATCTGTTAAGCTCAGGAGGGATAGCGCCATTCTCGGTTTGGTTTAACCACGTATCGCGCTATCCATCTTGGGCTTCATGGCTTCTTCTTACT

mdm-miR390e

mdm-miR390e*: CGCTATCCATCTTGGGCTTCA

>mdm-MIR390f MI0023078

	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	Total
AAGAATCTGTTAAGCTCAGGAGGG	0.04	0	0	0	0.04
TAAGCTCAGGAGGGATAG	0	0.18	0	0	0.18
TAAAGCTCAGGAGGGATAGCGC	0	0.18	0	0	0.18
AAGCTCAGGAGGGATAGCGC	0.08	23.52	0.53	0	24.13
AAGCTCAGGAGGGATAGC	0	6.43	0	0	6.43
AAGCTCAGGAGGGATAGCGC	0.04	2.76	0.15	0	2.95
AAGCTCAGGAGGGATAG	0	198.48	0	3.34	201.82
AAGCTCAGGAGGGATAGCGCC	7.2	278.24	15.65	2.59	303.68
AAGCTCAGGAGGGATA	0	2.39	0	0.11	2.5
AAGCTCAGGAGGGATAGCGCCAT	0.04	0.18	0	0	0.22
AAGCTCAGGAGGGAT	0	0.74	0	0	0.74
AAGCTCAGGAGGGATAGCGCCATT	0	1.29	0	0	1.29
AAGCTCAGGAGGGATAGCGCCA	0.25	1.29	0.83	0	2.37
AGCTCAGGAGGGATAGCGCC	0.04	1.47	0.05	0.11	1.67
AGCTCAGGAGGGATAG	0	1.65	0	0	1.65
AGCTCAGGAGGGATAGC	0	0.18	0	0	0.18
AGCTCAGGAGGGATA	0	0.74	0	0	0.74
AGCTCAGGAGGGATAGCGC	0	0.92	0	0	0.92
GCTCAGGAGGGATAGCGCC	0	0.37	0	0	0.37
GCTCAGGAGGGATAG	0	0.18	0	0	0.18
GCTCAGGAGGGATAGCGCCATT	0	0.18	0	0	0.18
GCTCAGGAGGGATAGCG	0	0.18	0	0	0.18
GCTCAGGAGGGATAGCGCCAT	0.04	0	0	0	0.04
GCTCAGGAGGGATAGCGCC	0.04	0	0	0	0.04
CTCAGGAGGGATAGCGCCAT	0.08	0	0	0	0.08
CTCAGGAGGGATAGCGCCATT	0.04	0	0	0	0.04
TCAGGAGGGATAGCGCC	0	0	0.05	0	0.05
CAGGAGGGATAGCGCCATTCT	0.08	0	0	0	0.08
AGGAGGGATAGCGCC	0	0.18	0	0	0.18
ATTCTCGGTTTGGTTTAACCAC	0	0.18	0	0	0.18
	0.04	1.65	0.05	0	1.74
CGCTATCCATCTTGGGCTTC	0.04	1.65	0.05	0	1.74
CGCTATCCATCTTGGGCTTCA	0.96	88.58	2.04	0.75	92.33
CGCTATCCATCTTGGGC	0	0.55	0	0	0.55
CGCTATCCATCTTGGGCTT	0	0.37	0	0	0.37
CGCTATCCATCTTGGGCT	0	0.92	0	0	0.92
GCTATCCATCTTGGGCTTCA	0.04	1.1	0.05	0.32	1.51
GCTATCCATCTTGGGCTT	0	0	0	0.11	0.11
CTATCCATCTTGGGCTTCA	0	0.37	0	0	0.37
TATCCATCTTGGGCTTCA	0	0.37	0	0	0.37
ATCCATCTTGGGCTTCA	0	0.18	0	0	0.18
AGTGTGGAAGAATCTGTTAAGCTCAGGAGGGATAGCGCCATTCTCGGTTTGGTTTAACCACGATATCGCGCTATCCATCTTGGGCTTCA					

mdm-miR390f

mdm-miR390f*: CGCTATCCATCTTGGGCTTCA

>mdm-MIR393a MI0023079

	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	Total
CTTCCAAGGGATCGCATTGAT	0	0	0	0	0.04
TCCAAGGGATCGCATTGATCT	2.22	8.27	0.87	0.32	11.68
TCCAAGGGATCGCA	0	0.55	0	0.11	0.66
TCCAAGGGATCGCATTGATC	0.67	0	0.1	0	0.77
TCCAAGGGATCGCATTGAT	0.25	0.37	0.1	0	0.72
TCCAAGGGATCGCATTGA	0	0.37	0	0.86	1.23
TCCAAGGGATCGCATT	0	0.18	0	0.32	0.5
TCCAAGGGATCGCATTG	0	0.37	0	0	0.37
TCCAAGGGATCGCATTGATCTA	0.17	0	0.15	0	0.32
TCCAAGGGATCGCATTGATCTAA	0.08	0	0	0	0.08
CAAAGGGATCGCATTGATCT	0.04	0	0	0	0.04
AAGGGATCGCATTGATCT	0.04	0	0	0	0.04
AGGGATCGCATTGATCT	0	0.18	0	0	0.18
	ATCATGCGATCCCTTCGGACG	8.87	0	0	11.06
	ATCATGCGATCCCTTCGGAC	0.04	0	0	0.04
	CATGCGATCCCTTCGGACG	0.04	0	0	0.04
GTGGAGGCTTCCAAGGGATCGCATTGATCTAATTGATCATATATGTCAAACATCGTCCGTACAGACATGGCAGGTTATATATGTAGTTGGATCATGGATCCCTTCGGACGTTCCAT					

mdm-miR393a

mdm-miR393a*: ATCATGCGATCCCTTCGGACG

>mdm-miR393b MI0023080

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CTTCCAAGGGATCGCATTGAT
TCCAAGGGATCGCATTGATC
TCCAAGGGATCGCATTGATCT
TCCAAGGGATCGCA
TCCAAGGGATCGCATTGATCTA
TCCAAGGGATCGCATTGAT
TCCAAGGGATCGCATTGA
TCCAAGGGATCGCATT
TCCAAGGGATCGCATTG
TCCAAGGGATCGCATTGCTAA
CAAAGGGATCGCATTGATCT
AAGGGATCGCATTGATCT
AGGGATCGCATTGATCT

TTCGTCGTGTAGTCGGATCAT
TCGGATCATCGATCCCTTCGGACG
ATCATGCGATCCCTTCGGACG
ATCATGCGATCCCTTCGGAC
CATGCGATCCCTTCGGACG

GGTGGAGGCTTCCAAGGGATCGCATTGATCTAATTGATCAGATATGTCAAACATCATCCGCATAGACATATGGTGGGTTATGTTTTTCGTCGTGTAGTCGGATCATCGATCCCTTCGGACGTTCCATC

mdm-miR393b
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GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	Total
0.04	0	0	0	0.04
0.67	0.1	0	0	0.77
2.22	0.87	8.27	0.32	11.68
0	0	0.55	0.11	0.66
0.17	0.15	0	0	0.32
0.25	0.1	0.37	0	0.72
0	0	0.37	0.86	1.23
0	0	0.18	0.32	0.5
0	0	0.37	0	0.37
0.08	0	0	0	0.08
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0	0	0.18	0	0.18
0.04	0	0	0	0.04
0.04	0	0	0	0.04
8.87	2.19	0	0	11.06
0.04	0	0	0	0.04
0.04	0	0	0	0.04

mdm-miR393b*: ATCATGCGATCCCTTCGGACG

>mdm-MIR393c MI0023081

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	Total
CTTCCAAAGGGATCGCATTGAT	0	0	0	0	0.04
TCCAAAGGGATCGCATTGATC	0.67	0.1	0	0	0.77
TCCAAAGGGATCGCATTGATCT	2.22	0.87	8.27	0.32	11.68
TCCAAAGGGATCGCA	0	0	0.55	0.11	0.66
TCCAAAGGGATCGCATTGATCTA	0.17	0.15	0	0	0.32
TCCAAAGGGATCGCATTGAT	0.25	0.1	0.37	0	0.72
TCCAAAGGGATCGCATTGA	0	0	0.37	0	1.23
TCCAAAGGGATCGCATT	0	0	0.18	0.32	0.5
TCCAAAGGGATCGCATTG	0	0	0.37	0	0.37
TCCAAAGGGATCGCATTGATCTAA	0.08	0	0	0	0.08
CAAAGGGATCGCATTGATCT	0.04	0	0	0	0.04
AAGGGATCGCATTGATCT	0.04	0	0	0	0.04
AGGGATCGCATTGATCT	0	0	0.18	0	0.18
TTCGTCTGTGTAGTCGGATCAT	0.04	0	0	0	0.04
TCGGATCATGCGATCCCTTCGGACG	0.04	0	0	0	0.04
ATCATGCGATCCCTTCGGACG	8.87	2.19	0	0	11.06
ATCATGCGATCCCTTCGGAC	0.04	0	0	0	0.04
CATCGGATCCCTTCGGACG	0.04	0	0	0	0.04
GGTGGAGGCTTCCAAAGGGATCGCATTGATCTAATTGATCAGATATGTCAAACATCATCCGCATAGACATATGGTGGGTTATGTTTTTCGTCTGTGTAGTCGGATCATGCGATCCCTTCGGACGTTTCATC	0.04	0	0	0	0.04

mdm-miR393c

mdm-miR393c*: ATCATGCGATCCCTTCGGACG

>mdm-miR393d MI0023165

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CTTCCAAGGGATCGCATTGAT
TCCAAGGGATCGCATTGATC
TCCAAGGGATCGCATTGATCT
TCCAAGGGATCGCA
TCCAAGGGATCGCATTGATCTA
TCCAAGGGATCGCATTGAT
TCCAAGGGATCGCATTGA
TCCAAGGGATCGCATT
TCCAAGGGATCGCATTG
TCCAAGGGATCGCATTGCTAA
CAAAGGGATCGCATTGATCT
AAGGGATCGCATTGATCT
AGGGATCGCATTGATCT

TTCGTCGTGTAGTCGGATCAT
TCGGATCATCGATCCCTTGGACG
ATCATCGATCCCTTGGACG
ATCATCGATCCCTTGGAC
CATCGATCCCTTGGACG

GGTGGAGGCTCCAAGGGATCGCATTGATCTAATTGATCAGATATGTCAAACATCATCCGCATAGACATATGGTGGGTTATGTTTTCGTCGTGTAGTCGGATCATCGATCCCTTGGACGTTCCATC

mdm-miR393d
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GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	Total
0.04	0	0	0	0.04
0.67	0.1	0	0	0.77
2.22	0.87	8.27	0.32	11.68
0	0	0.55	0.11	0.66
0.17	0.15	0	0	0.32
0.25	0.1	0.37	0	0.72
0	0	0.37	0.86	1.23
0	0	0.18	0.32	0.5
0	0	0.37	0	0.37
0.08	0	0	0	0.08
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0	0	0.18	0	0.18
0.04	0	0	0	0.04
0.04	0	0	0	0.04
8.87	2.19	0	0	11.06
0.04	0	0	0	0.04
0.04	0	0	0	0.04

Corrected:
mdm-miR393d: TCCAAGGGATCGCATTGATCT
mdm-miR393d*: ATCATCGATCCCTTGGACG

>mdm-miR393e MI0023166

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	Total
CTTCAAAGGGATCGCATTGAT	0.04	0	0	0	0.04
TCAAAGGGATCGCATTGATC	0.67	0.1	0	0	0.77
TCAAAGGGATCGCATTGATCT	2.22	0.87	8.27	0.32	11.68
TCAAAGGGATCGCA	0	0	0.55	0.11	0.66
TCAAAGGGATCGCATTGATCTA	0.17	0.15	0	0	0.32
TCAAAGGGATCGCATTGAT	0.25	0.1	0.37	0	0.72
TCAAAGGGATCGCATTGA	0	0	0.37	0.86	1.23
TCAAAGGGATCGCATT	0	0	0.18	0.32	0.5
TCAAAGGGATCGCATTG	0	0	0.37	0	0.37
TCAAAGGGATCGCATTGATCTAA	0.08	0	0	0	0.08
CAAAGGGATCGCATTGATCT	0.04	0	0	0	0.04
AAGGGATCGCATTGATCT	0.04	0	0	0	0.04
AAGGGATCGCATTGATCT	0	0	0.18	0	0.18
GGTGGAGGCTTCAAAGGGATCGCATTGATCTAAATTGATCAGATATGTCAAACATCATCCGCATAGACATATGGTGGTTATGTTTTCGTCTGTGTAGTCGGATCATGCGATCCCTTCGGACGTTCCATC	0.04	0	0	0	0.04
	0.04	0	0	0	0.04
	0.04	0	0	0	0.04
	8.87	2.19	0	0	11.06
	0.04	0	0	0	0.04
	0.04	0	0	0	0.04

mdm-miR393e

Corrected:
mdm-miR393e: TCAAAGGGATCGCATTGATCT
mdm-miR393e*: ATCATGCGATCCCTTCGGACG

>mdm-MIR393f MI0023167

	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	Total
CTTCCAAAGGGATCGCATTGAT	0.04	0	0	0	0.04
TCCAAAGGGATCGCATTGATCT	2.22	8.27	0.87	0.32	11.68
TCCAAAGGGATCGCA	0	0.55	0	0.11	0.66
TCCAAAGGGATCGCATTGATC	0.67	0	0.1	0	0.77
TCCAAAGGGATCGCATTGAT	0.25	0.37	0.1	0	0.72
TCCAAAGGGATCGCATTGA	0	0.37	0	0.86	1.23
TCCAAAGGGATCGCATT	0	0.18	0	0.32	0.5
TCCAAAGGGATCGCATTG	0	0.37	0	0	0.37
TCCAAAGGGATCGCATTGATCTA	0.17	0	0.15	0	0.32
TCCAAAGGGATCGCATTGATCTAA	0.08	0	0	0	0.08
CAAAGGGATCGCATTGATCT	0.04	0	0	0	0.04
AAGGGATCGCATTGATCT	0.04	0	0	0	0.04
AGGGATCGCATTGATCT	0	0.18	0	0	0.18
	ATCATGCGATCCCTTCGGACG	8.87	0	0	11.06
	ATCATGCGATCCCTTCGGAC	0.04	0	0	0.04
	CATGCGATCCCTTCGGACG	0.04	0	0	0.04
GTGGAGGCTTCCAAAGGGATCGCATTGATCTAATTGATCATATATGTCAAACATCGTCCGTACAGACATGGCAGGTTATATATGTAGTTGGATCATGCGATCCCTTCGGACGTTCCAT	0	0	0	0	0.04

mdm-miR393f

Corrected:

mdm-miR393f: TCCAAAGGGATCGCATTGATCT
mdm-miR393f*: ATCATGCGATCCCTTCGGACG

>mdm-miR394a MI0023082

	GSM880655_apple_fruit	GSM880654_apple_flower	GSM880653_apple_root	GSM880652_apple_leaf	Total
TTGCAAGAGTTTCTTACAGA	0	0	0	0	0.11
CAAGAGTTTCTTACAGAGTT	0.11	0.55	0	0	0.66
AAAGAGTTTCTTACAGAGTT	0.75	0.18	0.05	0	0.98
AAAGAGTTTCTTACAG	0	0.18	0	0	0.18
AAAGAGTTTCTTACAGAGTT	0.54	0	0	0.04	0.58
AAAGAGTTTCTTACAGAGTT	0	0	0	0	0.55
AAAGAGTTTCTTACAGAGTT	0.11	0.55	0	0	0.11
AAAGAGTTTCTTACAGAGTT	0.65	2.57	0.1	0.25	3.57
AAAGAGTTTCTTACAG	0	0.18	0	0	0.18
AGTTTCTTACAGAGTT	0	0.37	0	0	0.37
AGTTTCTTACAGAGTT	0	0.18	0	0	0.18
AGTTTCTTACAGAGTT	0.11	0	0	0	0.11
GTTCCTTACAGAGTT	0	0	0	0.04	0.04
TACAGGTTCTTTGGCATT	0	0	0.19	0.04	0.23
AGAGTTCTTTGGCATTCTGTCCACC	0	0	0.1	0.04	0.14
AGAGTTCTTTGGCATTCTGTCCAC	0	0	0.1	0	0.1
AGAGTTCTTTGGCATTCTGTCCACCT	0	0	0.19	0	0.19
AGAGTTCTTTGGCATTCTGTCTGTC	0.11	0.37	0.15	0.08	0.71
AGAGTTCTTTGGCATTCTGTCCCA	0	0	0.05	0	0.05
AGAGTTCTTTGGCATTCTGT	0	0	0	0.04	0.04
AGAGTTCTTTGGCATTCT	0.11	0	0	0	0.11
GAGTTCTTTGGCATTCTGTCCACC	0.43	0	0	0	0.43
GAGTTCTTTGGCATTCTGTCCA	0	0.18	0	0	0.18
GTTCCTTTGGCATTCTGTCCACC	0	0	0	0.04	0.04
GTTCCTTTGGCATTCTGTCCACC	0.22	0	0	0	0.22
GTTCCTTTGGCATTCTGTCCACC	0	0.18	0	0	0.18
GTTCCTTTGGCATTCTGTCCACC	0	0.37	0	0	0.37
GTTCCTTTGGCATTCTGTCCACC	0	0.55	0.05	0	0.6
GTTCCTTTGGCATTCTGTCCACC	0.22	0	0	0	0.22
GTTCCTTTGGCATTCTGTCCACC	0.11	0.18	0	0	0.29
GTTCCTTTGGCATTCTGTCCACC	0	0.37	0	0.04	0.41
GTTCCTTTGGCATTCTGTCCACC	2.69	30.32	0.49	0.46	33.96
GTTCCTTTGGCATTCTGTCCACC	0	0.55	0	0	0.55
GTTCCTTTGGCATTCTGTCCACC	0.43	0.92	0	0.04	1.39
GTTCCTTTGGCATTCTGTCCACC	0.11	0.92	0	0	1.03
GTTCCTTTGGCATTCTGTCCACC	0.54	1.1	0	0	1.64
GTTCCTTTGGCATTCTGTCCACC	0	0.18	0	0	0.18
GTTCCTTTGGCATTCTGTCCACC	6.57	47.78	2.92	4.4	61.67
GTTCCTTTGGCATTCTGTCCACC	0.43	5.33	0	0	5.76
GTTCCTTTGGCATTCTGTCCACC	0	0.18	0	0	0.18
GTTCCTTTGGCATTCTGTCCACC	0	0.37	0	0	0.37
GTTCCTTTGGCATTCTGTCCACC	0	0.18	0	0	0.18
GTTCCTTTGGCATTCTGTCCACC	0	0.55	0	0	0.55
GTTCCTTTGGCATTCTGTCCACC	0.43	0.55	0	0	0.98
GTTCCTTTGGCATTCTGTCCACC	0	0.18	0	0	0.18
GTTCCTTTGGCATTCTGTCCACC	1.83	13.23	0	0	15.06
GTTCCTTTGGCATTCTGTCCACC	0	0.18	0	0	0.18
GTTCCTTTGGCATTCTGTCCACC	0	0	0.05	0	0.05
GTTCCTTTGGCATTCTGTCCACC	0	0	0	0.04	0.04
GTTCCTTTGGCATTCTGTCCACC	0	0	0	0.08	0.08
GTTCCTTTGGCATTCTGTCCACC	0	0.55	0	0	0.55
GTTCCTTTGGCATTCTGTCCACC	0.11	0.18	0	0	0.29
GTTCCTTTGGCATTCTGTCCACC	0.11	0.18	0	0	0.29
GTTCCTTTGGCATTCTGTCCACC	0	0.18	0	0	0.18
GTTCCTTTGGCATTCTGTCCACC	0	0.74	0	0	0.74
GTTCCTTTGGCATTCTGTCCACC	0	0	0	0.04	0.04
GTTCCTTTGGCATTCTGTCCACC	0	0	0.05	0.04	0.09
GTTCCTTTGGCATTCTGTCCACC	0	0	0.05	0	0.05
GTTCCTTTGGCATTCTGTCCACC	0	0	0.05	0.13	0.18
GTTCCTTTGGCATTCTGTCCACC	0	0	0	0.04	0.04
GTTCCTTTGGCATTCTGTCCACC	0	0	0.05	0	0.05
GTTCCTTTGGCATTCTGTCCACC	0.65	0.18	1.07	1.84	3.74
GTTCCTTTGGCATTCTGTCCACC	0	0	0.05	0	0.05
GTTCCTTTGGCATTCTGTCCACC	0	0	0	0.04	0.04
GTTCCTTTGGCATTCTGTCCACC	0	0.18	0	0	0.18
GTTCCTTTGGCATTCTGTCCACC	0	0	0.05	0	0.05
GTTCCTTTGGCATTCTGTCCACC	1.08	1.29	0.44	0.33	3.14
GTTCCTTTGGCATTCTGTCCACC	0.11	0	0	0.04	0.15
GTTCCTTTGGCATTCTGTCCACC	0	0	0	0.04	0.04
GTTCCTTTGGCATTCTGTCCACC	0	0	0	0.13	0.13
GTTCCTTTGGCATTCTGTCCACC	0	0	0	0.17	0.17
GTTCCTTTGGCATTCTGTCCACC	0.11	0	0	0	0.11

mdm-miR394a

mdm-miR394a*-1: AGGTGGCATACTGCCAAC
mdm-miR394a*-2: AGGTGGCATACTGCCAACAG

>mdm-miR394b MI0023083

AAAGCGTTTCTTACAGAGTTT
AAAGCGTTTCTTACAGAGTT
AAGCGTTTCTTACAGAGTTCT
AAGCGTTTCTTACAG
AAGCGTTTCTTACAGAGT
AAGCGTTTCTTACAGAGTTT
AGCGTTTCTTACAGAGTTCT
CGTTTCTTACAGAGTTT
GTTTCTTACAGAGTT
TACAGAGTTCTTTGGCATT
AGAGTTCTTTGGCATTCTGTCCAC
AGAGTTCTTTGGCATTCTGTCCACT
AGAGTTCTTTGGCATTCTGTCCA
AGAGTTCTTTGGCATTCTGT
AGAGTTCTTTGGCATTCTGTCCACC
AGAGTTCTTTGGCATTCT
AGAGTTCTTTGGCATTCTGT
GAGTTCTTTGGCATTCTGTCCACC
GAGTTCTTTGGCATTCTGTCCA
GTTTCTTTGGCATTCTGTCCACC
GTTTCTTTGGCATTCTGTCCACTC
GTTTCTTTGGCATTCTGTCCACT
TTCTTTGGCATTCTGTCCACC
TTCTTTGGCATTCTGTCCACTCC
TCTTTGGCATTCTGTCCACTC
CTTTGGCATTCTGTCCACTCC
CTTTGGCATTCTGTCCACT
CTTTGGCATTCTGTCCACTC
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TTTGGCATTCTGTCCACT
TTTGGCATTCTGTCCAC
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TTGGCATTCTGTCCACTCC
TTGGCATTCTGTCCACTCCT
TTGGCATTCTGTCCACT
TTGGCATTCTGTCCACC
TTGGCATTCTGTCCACTC
TTGGCATTCTGTCCAC
TTGGCATTCTGTCCACTCC
TGGCATTCTGTCCACTC
CATCTGTCCACTCC
ATCTGTCCACTCC

AGGTGGGCATACTGCCAACAGA
AGGTGGGCATACTGCCAACAG
AGGTGGGCATACTGCCAAC
AGGTGGGCATACTGCCAA
AGGTGGGCATACTGCC
AGTTCGTGGATTCTCTTTG
GTTCGTGGATTCTCTTTGT
TCTGTGGATTCTCTTTGT

GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880653_apple_root	Total
0.65	0.08	0.37	0	1.1
0	0	0.18	0	0.18
3.66	0.63	9.92	0	14.21
0.32	0	0.18	0	0.5
0	0.04	0.18	0	0.22
0.22	0	0	0	0.22
0.11	0	0	0	0.11
0.43	0	0	0	0.43
0.11	0	0	0	0.11
0	0.04	0	0	0.04
0	0.04	0	0.1	0.14
0	0	0	0.1	0.1
0.11	0.08	0.37	0.15	0.71
0	0	0	0.05	0.05
0	0.04	0	0.19	0.23
0	0.04	0	0	0.04
0	0	0	0.19	0.19
0.11	0	0	0	0.11
0.43	0	0	0	0.43
0	0.04	0	0	0.04
0	0	0.18	0	0.18
0.22	0	0	0	0.22
0	0	0.37	0	0.37
0	0	0.18	0	0.18
0	0	0.55	0.05	0.6
0	0.04	0.37	0	0.41
0.11	0	0.18	0	0.29
0.22	0	0	0	0.22
2.69	0.46	30.32	0.49	33.96
0.43	0.04	0.92	0	1.39
0.11	0	0.92	0	1.03
0.54	0	1.1	0	1.64
0	0	0.55	0	0.55
0	0	0.18	0	0.18
6.57	4.4	47.78	2.92	61.67
0	0	0	0.05	0.05
0.43	0	5.33	0	5.76
0	0	0.18	0	0.18
0	0	0.37	0	0.37
0	0	0.55	0	0.55
0.43	0	0.55	0	0.98
0	0	0.18	0	0.18
1.83	0	13.23	0	15.06
0	0	0.18	0	0.18
0	0	0.74	0	0.74
0	0	0.55	0	0.55
0.11	0	0.18	0	0.29
0.11	0	0.18	0	0.29
0	0	0.18	0	0.18
1.08	0.04	0	0	1.12
0.11	0.21	0.37	0.1	0.79
0	0	0.18	0	0.18

GGGTCTCGTAGCTCTGTAAACGTGGATGATCACGTGGTTTCGCAAGCGTTTCTTACAGAGTTCTTTGGCATTCTGTCCACTCCTCTTCTGTGATCTTCTGTCCCTCTCTGTGTGTGTATGTGGTTAATGGATGGAGTGGGCATACTGCCAACAGAGTTCTGTGGATTCTCTTTGTAAAACCTCGTGAGTGTATATGTATCGTTACGCAGTACTCGATCC

mdm-miR394b

mdm-miR394b*-1: AGGTGGGCATACTGCCAAC
mdm-miR394b*-2: AGGTGGGCATACTGCCAACAG

>mdm-MIR395a MI0023084

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	Total
GTTCCCCGAATACTTCATTA	0.05	0.63	0.22	1.29	2.19
GTTCCCCGAATACTTCAT	0.05	0.08	0	0	0.13
GTTCCCCGAATACTTCATT	2.58	4.19	0.65	0.55	7.97
GTTCCCCGAATACTTCA	0.05	0	0	0	0.05
TCCCCCGAATACTTCATTAG	0.05	9.33	0	0.55	9.93
TCCCCCGAATACTTCATTA	0.05	0.13	0	0	0.18
TCCCCCGAATACTTCATTAGG	0	0.04	0	0	0.04
TCCCCCGAATACTTCATT	0	0.08	0	0	0.08
TCCCCCGAATACTTCATTAG	0	0.08	0	0	0.08
CCCCCGAATACTTCATTAG	0	0.08	0	0	0.08
CCCCGAATACTTCATTAG	0	0.04	0	0	0.04
CCCCGAATACTTCATT	0	0.04	0	0	0.04
CCCCGAATACTTCATTAG	0	0.04	0	0	0.04
TCTACTGAAGTGTTTGGGGGA	0	0.04	0	0	0.04
CTACTGAAGTGTTTGGGGGAA	0	0.08	0	0.55	0.63
TACTGAAGTGTTTGGGGGAAC	0	0.42	0	0.74	1.16
TACTGAAGTGTTTGGGGGAAC	0	0.33	0.11	1.29	1.73
TACTGAAGTGTTTGGGGGAAC	0	0.04	0	0	0.04
ACTGAAGTGTTTGGGGGAAC	0	2.22	0.54	8.82	11.58
ACTGAAGTGTTTGGGGG	0	0.04	0	0	0.04
ACTGAAGTGTTTGGGGGAAC	0	0.25	0	0.18	0.43
ACTGAAGTGTTTGGGGGAA	0	0	0	0.18	0.18
CTGAAGTGTTTGGGGGA	0	0	0.22	1.47	1.69
CTGAAGTGTTTGGGGGAAC	0.1	0.46	0	0.74	1.3
CTGAAGTGTTTGGGGGAAC	3.4	23.44	53.21	241.11	321.16
CTGAAGTGTTTGGGGGAAC	0	0.04	0	0.18	0.22
CTGAAGTGTTTGGGGGAA	0	0.08	6.68	49.99	56.75
CTGAAGTGTTTGGGGG	0	0.04	0	0.18	0.22
CTGAAGTGTTTGGGGGAAC	0	0.04	1.94	6.98	8.96
TGAAGTGTTTGGGGGAA	0	0	0.43	0.55	0.98
TGAAGTGTTTGGGGGAAC	0.68	0.54	4.42	0.92	6.56
TGAAGTGTTTGGGGGAAC	0	0	0.22	0.55	0.77
TGAAGTGTTTGGGGGAA	0	0.04	0	0	0.04
TGAAGTGTTTGGGGGA	0	0	0.11	0.18	0.29
GAAAGTGTTTGGGGGAAC	0	0.13	0	1.84	1.97
GAAAGTGTTTGGGGGAAC	0	0	0.32	0.55	0.87
GAAAGTGTTTGGGGGAA	0	0	0	0.18	0.18
GAAAGTGTTTGGGGGA	0	0	0	0.37	0.37
AAGTGTTTGGGGGAAC	0	0	0	0.18	0.18
AAGTGTTTGGGGGAA	0	0	0	0.55	0.55

CCTAGAGTCCCCCGAATACTTCATTAGGATCGATACATAAATCTTTGAAGGATTGCACCGTCTCTACTGAAGTGTTTGGGGGAACCCGGG

mdm-miR395a

mdm-miR395a*-1: GTTCCCCGAATACTTCATT
mdm-miR395a*-2: GTTCCCCGAATACTTCATTA

>mdm-miR395c MI023086

CCTAGAGTCCCCCGAACACT
GTTCCCCGAACTTCATT
GTTCCCCGAACTTCA
GTTCCCCGAACTTCATTA
TTCCCCGAACTTCATTA
ACACTTCATTAAGATCGATGC

ATTAATGATGATTG

TCTACTGAAGTGTGGGGGA
CTACTGAAGTGTGGGGGA
TACTGAAGTGTGGGGGAACT
TACTGAAGTGTGGGGGAACT
TACTGAAGTGTGGGGGAACTC
ACTGAAGTGTGGGGGAACT
ACTGAAGTGTGGGGGAACT
ACTGAAGTGTGGGGGAA
ACTGAAGTGTGGGGGAA
ACTGAAGTGTGGGGGAA
CTGAAGTGTGGGGGAA
CTGAAGTGTGGGGGAACTC
CTGAAGTGTGGGGGAA
CTGAAGTGTGGGGGAACT
CTGAAGTGTGGGGGAACTCC
CTGAAGTGTGGGGGAA
CTGAAGTGTGGGGGAA
TGAAGTGTGGGGGAA
TGAAGTGTGGGGGAA
TGAAGTGTGGGGGAACT
TGAAGTGTGGGGGAACTC
GAAGTGTGGGGGAACT
GAAGTGTGGGGGAACTC
GAAGTGTGGGGGAACTC
AAGTGTGGGGGAA
AAGTGTGGGGGAACTC
AAGTGTGGGGGAACTC

GSM880655_apple_fruit	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880653_apple_root	Total
0.11	0	0	0	0.11
0	0.18	0	0	0.18
0.32	0	0	0	0.32
0.11	0.37	0	0	0.48
0	0	0.04	0	0.04
0	0.37	0	0	0.37
0	0	0.04	0	0.04
0	0	0.04	0	0.04
0	0.55	0.08	0	0.63
0	0.74	0.42	0	1.16
0.11	1.29	0.33	0	1.73
0	0	0.04	0	0.04
0.54	8.82	2.22	0	11.58
0	0.18	0.25	0	0.43
0	0.18	0	0	0.18
0	0	0.04	0	0.04
0.22	1.47	0	0	1.69
53.21	241.11	23.44	3.4	321.16
6.68	49.99	0.08	0	56.75
1.94	6.98	0.04	0	8.96
0	0.18	0.04	0	0.22
0	0.18	0.04	0	0.22
0	0.74	0.46	0.1	1.3
0.11	0.18	0	0	0.29
0.43	0.55	0	0	0.98
0	0	0.04	0	0.04
0.22	0.55	0	0	0.77
4.42	0.92	0.54	0.68	6.56
0.32	0.55	0	0	0.87
0	1.84	0.13	0	1.97
0	0.18	0	0	0.18
0	0.37	0	0	0.37
0	0.18	0	0	0.18
0	0.55	0	0	0.55

GAATCAGGTGTCCTAGAGTCCCCCGAACACTTCATTAAGATCGATGCATAAGTCTTTGTATATTAATGATGATTGCACCATCTCTACTGAAGTGTGGGGGAACTCCGGGTGTCAATTTGATC

mdm-miR395c

mdm-miR395c*: GTTCCCCGAACTTCATTA

>mdm-miR395d MI0023087

U
AGAGTTCCTTGACCACCTTCA
GTCCCTTGACCACCTTCATTG
GTCCCTTGACCACCTTCATT
GTCCCTTGACCACCTTCAT
GTCCCTTGACCACCTTC
GTCCCTTGACCACCTT
GTCCCTTGACCACCT
GTCCCTTGACCACCTTCA
TTCCTTGACCACCTTCATTG
TTCCTTGACCACCTTCATTG
TCCCTTGACCACCTTCATTG

TCGTGGATATGGTTTCGAACAA

CTACTGAAGTGTGGGGGAA
TACTGAAGTGTGGGGGAACT
TACTGAAGTGTGGGGGAACT
TACTGAAGTGTGGGGGAACTC
ACTGAAGTGTGGGGG
ACTGAAGTGTGGGGGAA
ACTGAAGTGTGGGGGAACT
ACTGAAGTGTGGGGGAACT
CTGAAGTGTGGGGGAACTC
CTGAAGTGTGGGGGAA
CTGAAGTGTGGGGGAA
CTGAAGTGTGGGGGAACT
CTGAAGTGTGGGGGAACTC
TGAAGTGTGGGGGAA
TGAAGTGTGGGGGAACTC
TGAAGTGTGGGGGAA
TGAAGTGTGGGGGAACT
TGAAGTGTGGGGGAACT
GAAGTGTGGGGGAACT
GAAGTGTGGGGGAA
GAAGTGTGGGGGAACTC
GAAGTGTGGGGGAA
AAGTGTGGGGGAACTC
AAGTGTGGGGGAA
AAGTGTGGGGGAACTCCTG
AAGTGTGGGGGAACTCCT

GSM880654_apple_flower	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	Total
0.18	0	0	0	0.18
4.23	0.17	0.11	0	4.51
2.39	0.04	0.75	0	3.18
0	0.04	0	0	0.04
0.18	0	0	0	0.18
0.18	0	0	0	0.18
0.18	0	0	0	0.18
0.18	0	0	0	0.18
0.92	0.8	0	0	1.72
0	0.17	0	0	0.17
0	0	0.11	0	0.11
0	0.04	0	0	0.04
0.55	0.08	0	0	0.63
0.74	0.42	0	0	1.16
1.29	0.33	0.11	0	1.73
0	0.04	0	0	0.04
0	0.04	0	0	0.04
0.18	0	0	0	0.18
8.82	2.22	0.54	0	11.58
0.18	0.25	0	0	0.43
241.11	23.44	53.21	3.4	321.16
1.47	0	0.22	0	1.69
49.99	0.08	6.68	0	56.75
0.18	0.04	0	0	0.22
0.74	0.46	0	0.1	1.3
0.18	0.04	0	0	0.22
6.98	0.04	1.94	0	8.96
0.55	0	0.43	0	0.98
0.92	0.54	4.42	0.68	6.56
0.18	0	0.11	0	0.29
0.55	0	0.22	0	0.77
0	0.04	0	0	0.04
0.55	0	0.32	0	0.87
0.37	0	0	0	0.37
1.84	0.13	0	0	1.97
0.18	0	0	0	0.18
0.18	0	0	0	0.18
0.55	0	0	0	0.55
1.47	0	0	0	1.47
0.18	0	0	0	0.18

ATCAGGTGTCCTTAGAGTTCCTTGACCACCTTCATTGGGAGGTGAGAGATCAATCGTGGATATGGTTTCGAACAAATTGTCCTCCACTCCTCCTATGATTCCTACTGAAGTGTGGGGGAACTCCTGGTGCATATGAT

mdm-miR395d

mdm-miR395d*: GTCCCTTGACCACCTTCATTG

>mdm-miR395e MI0023088

	GSM880655_apple_fruit	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880653_apple_root	Total
CCTAGAGTTCCCCGAACACT	0.11	0	0	0	0.11
GTTCCCCGAACACTTCATT	0	0.18	0	0	0.18
GTTCCCCGAACACTTCA	0.32	0	0	0	0.32
GTTCCCCGAACACTTCATTA	0.11	0.37	0	0	0.48
TTCCCCGAACACTTCATTA	0	0	0.04	0	0.04
ACACTTCATTAAGATCGATGC	0	0.37	0	0	0.37
ATTAATGATGATTG	0	0	0.04	0	0.04
TCTACTGAAGTGTGGGGGA	0	0	0.04	0	0.04
CTACTGAAGTGTGGGGGA	0	0.55	0.08	0	0.63
TACTGAAGTGTGGGGGA	0	0.74	0.42	0	1.16
TACTGAAGTGTGGGGGA	0.11	1.29	0.33	0	1.73
TACTGAAGTGTGGGGGA	0	0	0.04	0	0.04
ACTGAAGTGTGGGGGA	0.54	8.82	2.22	0	11.58
ACTGAAGTGTGGGGGA	0	0.18	0.25	0	0.43
ACTGAAGTGTGGGGGA	0	0.18	0	0	0.18
ACTGAAGTGTGGGGGA	0	0	0.04	0	0.04
CTGAAGTGTGGGGGA	0.22	1.47	0	0	1.69
CTGAAGTGTGGGGGA	53.21	241.11	23.44	3.4	321.16
CTGAAGTGTGGGGGA	6.68	49.99	0.08	0	56.75
CTGAAGTGTGGGGGA	1.94	6.98	0.04	0	8.96
CTGAAGTGTGGGGGA	0	0.18	0.04	0	0.22
CTGAAGTGTGGGGGA	0	0.18	0.04	0	0.22
CTGAAGTGTGGGGGA	0	0.74	0.46	0.1	1.3
TGAAGTGTGGGGGA	0.11	0.18	0	0	0.29
TGAAGTGTGGGGGA	0.43	0.55	0	0	0.98
TGAAGTGTGGGGGA	0	0	0.04	0	0.04
TGAAGTGTGGGGGA	0.22	0.55	0	0	0.77
TGAAGTGTGGGGGA	4.42	0.92	0.54	0.68	6.56
GAAGTGTGGGGGA	0.32	0.55	0	0	0.87
GAAGTGTGGGGGA	0	1.84	0.13	0	1.97
GAAGTGTGGGGGA	0	0.18	0	0	0.18
GAAGTGTGGGGGA	0	0.37	0	0	0.37
AAGTGTGGGGGA	0	0.18	0	0	0.18
AAGTGTGGGGGA	0	0.55	0	0	0.55

GAATCAGGTGTCCTAGAGTCCCCGAACACTTCATTAAGATCGATGCATAAGTCTTTGTATATTAATGATGATTGCACCATCTCTACTGAAGTGTGGGGGA

mdm-miR395e*: GTTCCCCGAACACTTCATTA

>mdm-miR395f MI0023089

CCTAGAGTTCCTCCGAACT
GTTCCCGGAACTTCATT
GTTCCCGGAACTTCA
GTTCCCGGAACTTCATTA
TTCCCGGAACTTCATTA
ACACTTCATTAGATCGATGC

ATTAAATGATGATTG

TCTACTGAAGTGTGGGGGA
CTACTGAAGTGTGGGGGAA
TACTGAAGTGTGGGGGA
TACTGAAGTGTGGGGGAA
TACTGAAGTGTGGGGGAA
TACTGAAGTGTGGGGGAACTC
ACTGAAGTGTGGGGGAACT
ACTGAAGTGTGGGGGAACT
ACTGAAGTGTGGGGGAA
ACTGAAGTGTGGGGGAA
ACTGAAGTGTGGGGGAA
CTGAAGTGTGGGGGAA
CTGAAGTGTGGGGGAACTC
CTGAAGTGTGGGGGAA
CTGAAGTGTGGGGGAACT
CTGAAGTGTGGGGGAACTCC
CTGAAGTGTGGGGGAA
CTGAAGTGTGGGGGAA
TGAAGTGTGGGGGAA
TGAAGTGTGGGGGAA
TGAAGTGTGGGGGAACT
TGAAGTGTGGGGGAACTC
GAAGTGTGGGGGAACT
GAAGTGTGGGGGAACTC
GAAGTGTGGGGGAA
GAAGTGTGGGGGAA
AAGTGTGGGGGAACTC
AAGTGTGGGGGAA

GSM880655_apple_fruit	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880653_apple_root	Total
0.11	0	0	0	0.11
0	0.18	0	0	0.18
0.32	0	0	0	0.32
0.11	0.37	0	0	0.48
0	0	0.04	0	0.04
0	0.37	0	0	0.37
0	0	0.04	0	0.04
0	0	0.04	0	0.04
0	0.55	0.08	0	0.63
0	0.74	0.42	0	1.16
0.11	1.29	0.33	0	1.73
0	0	0.04	0	0.04
0.54	8.82	2.22	0	11.58
0	0.18	0.25	0	0.43
0	0.18	0	0	0.18
0	0	0.04	0	0.04
0.22	1.47	0	0	1.69
53.21	241.11	23.44	3.4	321.16
6.68	49.99	0.08	0	56.75
1.94	6.98	0.04	0	8.96
0	0.18	0.04	0	0.22
0	0.18	0.04	0	0.22
0	0.74	0.46	0.1	1.3
0.11	0.18	0	0	0.29
0.43	0.55	0	0	0.98
0	0	0.04	0	0.04
0.22	0.55	0	0	0.77
4.42	0.92	0.54	0.68	6.56
0.32	0.55	0	0	0.87
0	1.84	0.13	0	1.97
0	0.18	0	0	0.18
0	0.37	0	0	0.37
0	0.18	0	0	0.18
0	0.55	0	0	0.55

GAATCAGGTGTCCCTAGAGTTCCTCCGAACTTCATTAGATCGATCGATAAGTTCCTTTGTATATTAAATGATGATTGCACCATCTCTACTGAAGTGTGGGGGAACTCCGGGTGTCAATTTGATC

mdm-miR395f

mdm-miR395f*: GTTCCCGGAACTTCATTA

>mdm-miR395g MI0023090

AGAATAAGGTCTGCAATGCTA

AGAGTCCCTTGACCACTTCA
GTCCCTTGACCACTTCATT
GTCCCTTGACCACTTCATTG
GTCCCTTGACCACTTCAT
GTCCCTTGACCACTT
GTCCCTTGACCACT
GTCCCTTGACCACTTC
GTCCCTTGACCACTTCA
TCCCTTGACCACTTCATTG
TCCCTTGACCACTTCATTG
TCCCTTGACCACTTCATTG

CTACTGAAGTGTGGGGGAA
TACTGAAGTGTGGGGGAACT
TACTGAAGTGTGGGGGAAAC
TACTGAAGTGTGGGGGAACTC
ACTGAAGTGTGGGGG
ACTGAAGTGTGGGGGAAAC
ACTGAAGTGTGGGGGAACT
ACTGAAGTGTGGGGGAA
CTGAAGTGTGGGGG
CTGAAGTGTGGGGGAACT
CTGAAGTGTGGGGGAACTC
CTGAAGTGTGGGGGAACTCC
CTGAAGTGTGGGGGAAAC
CTGAAGTGTGGGGGAA
CTGAAGTGTGGGGGAA
TGAAGTGTGGGGGAA
TGAAGTGTGGGGGAACT
TGAAGTGTGGGGGAACTC
TGAAGTGTGGGGGAA
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GAAGTGTGGGGGAACT
GAAGTGTGGGGGAA
GAAGTGTGGGGGAA
AAGTGTGGGGGAACTC
AAGTGTGGGGGAACTCCT
AAGTGTGGGGGAACTCCTG
AAGTGTGGGGGAA
AAGTGTGGGGGAA

GAAAAGAATAAGGTCTGCAATGCTATCAGGTGTACCAAGAGTCCCTTGACCACTTCATTGGGAAATAGTCTCTTTGTAACTATAAATCTACTGAAGTGTGGGGGAACTCCTGTTGCATTGATTTTACAAAACAAAAATTATC

mdm-miR395g

GSM880652_apple_leaf	GSM880654_apple_flower	GSM880655_apple_fruit	GSM880653_apple_root	Total
0.04	0	0	0	0.04
0	0.18	0	0	0.18
0.04	2.39	0.75	0	3.18
0.17	4.23	0.11	0	4.51
0.04	0	0	0	0.04
0	0.18	0	0	0.18
0	0.18	0	0	0.18
0	0.18	0	0	0.18
0	0.18	0	0	0.18
0.8	0.92	0	0	1.72
0.17	0	0	0	0.17
0	0	0.11	0	0.11
0.08	0.55	0	0	0.63
0.42	0.74	0	0	1.16
0.33	1.29	0.11	0	1.73
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0.25	0.18	0	0	0.43
2.22	8.82	0.54	0	11.58
0	0.18	0	0	0.18
0.04	0.18	0	0	0.22
0.04	6.98	1.94	0	8.96
23.44	241.11	53.21	3.4	321.16
0.04	0.18	0	0	0.22
0.46	0.74	0	0.1	1.3
0.08	49.99	6.68	0	56.75
0	1.47	0.22	0	1.69
0	0.55	0.43	0	0.98
0	0.55	0.22	0	0.77
0.54	0.92	4.42	0.68	6.56
0	0.18	0.11	0	0.29
0.04	0	0	0	0.04
0.13	1.84	0	0	1.97
0	0.55	0.32	0	0.87
0	0.18	0	0	0.18
0	0.37	0	0	0.37
0	0.18	0	0	0.18
0	0.18	0	0	0.18
0	1.47	0	0	1.47
0	0.55	0	0	0.55

mdm-miR395g*: GTCCCTTGACCACTTCATTG

>mdm-MIR395i MI0023092

	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	Total
AGAGTTCCTTGACCACTTCA	0.18	0	0	0	0.18
GTTCCCTTGACCACTTCATT	2.39	0.04	0.75	0	3.18
GTTCCCTTGACCACTT	0.18	0	0	0	0.18
GTTCCCTTGACCACTTCAT	0	0.04	0	0	0.04
GTTCCCTTGACCACT	0.18	0	0	0	0.18
GTTCCCTTGACCACTTCA	0.18	0	0	0	0.18
GTTCCCTTGACCACTTC	0.18	0	0	0	0.18
GTTCCCTTGACCACTTCATTG	4.23	0.17	0.11	0	4.51
TTCCTTGACCACTTCATTGG	0.92	0.8	0	0	1.72
TTCCTTGACCACTTCATTG	0	0.17	0	0	0.17
TCCCTTGACCACTTCATTG	0	0	0.11	0	0.11
CTACTGAAGTGTGGGGGAA	0.55	0.08	0	0	0.63
TACTGAAGTGTGGGGGAAC	1.29	0.33	0.11	0	1.73
TACTGAAGTGTGGGGGAAC	0.74	0.42	0	0	1.16
TACTGAAGTGTGGGGGAAC	0	0.04	0	0	0.04
ACTGAAGTGTGGGGGAAC	8.82	2.22	0.54	0	11.58
ACTGAAGTGTGGGGG	0	0.04	0	0	0.04
ACTGAAGTGTGGGGGAAC	0.18	0.25	0	0	0.43
ACTGAAGTGTGGGGGAA	0.18	0	0	0	0.18
CTGAAGTGTGGGGGA	1.47	0	0.22	0	1.69
CTGAAGTGTGGGGGAAC	6.98	0.04	1.94	0	8.96
CTGAAGTGTGGGGGAAC	0.18	0.04	0	0	0.22
CTGAAGTGTGGGGGAAC	241.11	23.44	53.21	3.4	321.16
CTGAAGTGTGGGGG	0.18	0.04	0	0	0.22
CTGAAGTGTGGGGGAA	49.99	0.08	6.68	0	56.75
CTGAAGTGTGGGGGAAC	0.74	0.46	0	0.1	1.3
TGAAGTGTGGGGGAAC	0.92	0.54	4.42	0.68	6.56
TGAAGTGTGGGGGAA	0.55	0	0.43	0	0.98
TGAAGTGTGGGGGAAC	0	0.04	0	0	0.04
TGAAGTGTGGGGGA	0.18	0	0.11	0	0.29
TGAAGTGTGGGGGAAC	0.55	0	0.22	0	0.77
GAAGTGTGGGGGAAC	1.84	0.13	0	0	1.97
GAAGTGTGGGGGAAC	0.55	0	0.32	0	0.87
GAAGTGTGGGGGAA	0.18	0	0	0	0.18
GAAGTGTGGGGGA	0.37	0	0	0	0.37
AAAGTGTGGGGGAA	0.55	0	0	0	0.55
AAAGTGTGGGGGAAC	0.18	0	0	0	0.18
TCAGGTGTCACCAAGAGTTCCTTGACCACTTCATTGGGAAATAGTCTCTTTTGCAACTAAATATCCTACTGAAGTGTGGGGGAAC	0.18	0	0	0	0.18

mdm-miR395i

mdm-miR395i*: GTTCCCTTGACCACTTCATTG

>mdm-miR396a MI0023093

	GSM80654_apple_flower	GSM80655_apple_fruit	GSM80652_apple_leaf	GSM80653_apple_root	Total
TCTTTGATTTCCACAGCT	0.55	0.11	0	0	0.66
CTTTGATTTCCACAGCTT	1.1	0	0	0	1.1
TTTGTATTTCCACAGCTTT	0.37	0.22	0	0	0.59
TTTGTATTTCCACAGCTTTTC	0.74	0.11	0	0	0.85
TATTTCCACAGCT	0	0.11	0	0	0.11
TATTTCCACAGCTTTCTTG	0	0	0.04	0	0.04
ATTCTTCCACAGCTTTCTT	0.18	0	0	0	0.18
ATTCTTCCACAGCTTTCTTGAA	0.55	0.32	0	0.05	0.92
ATTCTTCCACAGCTTTCT	0	0.11	0	0	0.11
ATTCTTCCACAGCTTTCTTGA	0.55	0	0	0	0.55
CTTCCACAGCTTTCTTGAACAG	0	0	0.04	0.1	0.14
TCCACAGCTTTCTT	2.57	6.89	0.08	0	9.54
TCCACAGCTTTCTTGAACAGC	3.68	1.51	0.33	0.19	5.71
TCCACAGCTTTCTTGAACAG	1496.67	1015.63	212.94	158.35	2883.59
TCCACAGCTTTCTTGAAC	17.27	7.11	6.66	2.77	33.81
TCCACAGCTTTCTTGAACAGCA	0	0	0.04	0	0.04
TCCACAGCTTTCTTGA	26.65	23.37	1.26	0.19	51.47
TCCACAGCTTTCTTGAACA	23.16	11.09	1.21	0.39	35.85
TCCACAGCTTTCTTGA	84.54	16.16	2.01	0.29	103
TCCACAGCTTTCTTG	23.16	41.36	0.08	0	64.6
TCCACAGCTTTCTTGAACAGC	1.29	0.75	0.13	0.1	2.27
TCCACAGCTTTCTTG	1.47	1.08	0	0	2.55
TCCACAGCTTTCTTGAAC	0.55	0.43	0	0	0.98
TCCACAGCTTTCTTGAACAG	23.16	11.74	1.21	0.68	36.79
TCCACAGCTTTCTTGA	0	0.11	0	0	0.11
TCCACAGCTTTCTTGA	3.68	0.43	0.04	0.05	4.2
TCCACAGCTTTCTTGAACAGCA	0	0	0	0.05	0.05
CCACAGCTTTCTTGAACAGCA	36.39	3.45	0.21	0.05	40.1
CCACAGCTTTCTTGA	3.12	0.32	0	0	3.44
CCACAGCTTTCTTGAACAGCAT	0	0	0.04	0.05	0.09
CCACAGCTTTCTTGAACAGC	0.55	0	0	0	0.55
CCACAGCTTTCTTGAAC	0.55	0.11	0	0	0.66
CCACAGCTTTCTTGAACA	0.18	0	0	0	0.18
CCACAGCTTTCTTGAACAG	3.31	3.23	0.04	0.05	6.63
CCACAGCTTTCTTGA	0	0.11	0	0	0.11
CCACAGCTTTCTTGAACAGCA	0.18	0.22	0.04	0	0.44
CACAGCTTTCTTGAACA	0.37	0.11	0.04	0	0.52
CACAGCTTTCTTGAACAG	4.41	1.94	0.63	0.34	7.32
CACAGCTTTCTTGA	1.47	0.11	0	0	1.58
CACAGCTTTCTTGAAC	0	0.18	0	0.05	0.23
ACAGCTTTCTTGAAC	0.37	0	0	0	0.37
ACAGCTTTCTTGAACAG	9.37	6.03	0.33	0.19	15.92
ACAGCTTTCTTGAACA	0.18	0	0	0	0.18
CAGCTTTCTTGAACAG	19.3	5.71	0.08	0	25.09
AGCTTTCTTGAACAG	21.87	4.09	0	0	25.96
GCTTTCTTGAACAGC	0	0.11	0	0	0.11
GCTTTCTTGAACAGCA	0.18	0	0	0	0.18
TTCTTGAACAGCATCCATGTA	0.74	0	0	0	0.74
TCTTGAACAGCATCCATGTA	0	0	0.04	0	0.04
TCTTGAACAGCATCCATGTA	0	0	0.04	0	0.04
ACCGATCTTTGGAGTGAGTCGA	0	0	0.04	0	0.04
AACTGGTTTGGCGTTCA	0	0	0.04	0.05	0.09
CTTGGTTTGGCGTTCAATAAAG	0	0	0.04	0	0.04
CGTTCAATAAAGCTGTGGGA	1.47	0.32	0.8	0.87	3.46
CGTTCAATAAAGCTGT	0	0	0.04	0.05	0.09
CGTTCAATAAAGCTGTG	0	0	0.08	0.1	0.18
CGTTCAATAAAGCTGTGGAA	0	0	0.04	0	0.04
CGTTCAATAAAGCTGTGG	0	0	0.04	0	0.04
CGTTCAATAAAGCT	0	0	0.13	0.15	0.28
GGTTCAATAAAGCTGTGGGAAG	0	0	0.08	0.15	0.23
GGTTCAATAAAGCTGTGGAA	0	0	0	0.05	0.05
GTTCAATAAAGCTGT	0.37	0	0	0	0.37
GTTCAATAAAGCTGTGGGAAGA	0.18	0	0.5	0.24	0.74
GTTCAATAAAGCTGTGGGAAG	1.65	8.19	19.21	19.49	48.54
GTTCAATAAAGCTGTGGAA	0	0.75	0.25	0.34	1.34
GTTCAATAAAGCTGTGGGA	0	0.43	0.04	0.1	0.57
GTTCAATAAAGCTGTGG	0	0	0.04	0	0.04
TTCATAAAGCTGTGGGAAG	0.74	1.29	18.04	6.9	26.97
TTCATAAAGCTGTGGGAAGA	0	0.71	0.29	1	1.11
TTCATAAAGCTGTGGGAAGA	0	0.54	0.38	0.05	0.97
TCAATAAAGCTGTGGGAAGATACA	0	0	0.04	0.1	0.14
TCAATAAAGCTGTGGGAAGATA	0	0	0.17	0.05	0.22
TCAATAAAGCTGTGGGAAG	0	0.11	0.29	0.15	0.55
TCAATAAAGCTGTGGGAAGAT	0	0	0.08	0	0.08
TCAATAAAGCTGTGGGAAGATAC	0	0	0.13	0	0.13
CAATAAAGCTGTGGGAAGATAC	0.18	0	2.01	1.17	3.36
CAATAAAGCTGTGGGAAGATACA	0	0	0.42	0	0.42
CAATAAAGCTGTGGGAAGA	0	0	0.04	0	0.04
CAATAAAGCTGTGGGAAGATA	0	0	0.08	0.05	0.13
AATAAAGCTGTGGGAAGATACA	0	0	0.21	0.19	0.4
AATAAAGCTGTGGGAAGATAC	1.84	0	0.29	0.34	2.47
AATAAAGCTGTGGGAAGA	0	0	0.04	0	0.04
AATAAAGCTGTGGGAAGATACAGA	0	0	0.04	0	0.04
AATAAAGCTGTGGGAAG	0	0	0.25	0.24	0.49
ATAAAGCTGTGGGAAGATACA	0	0.11	1	0.15	1.26
ATAAAGCTGTGGGAAGATAC	0.18	0	0	0	0.18
AAAGCTGTGGGAAGATACAGATA	0.18	0	0	0	0.18
AAAGCTGTGGGAAGATACAGATAG	0	0	0.04	0	0.04
AAAGCTGTGGGAAGATACA	0.18	0	0	0	0.18
AAAGCTGTGGGAAGATACAGAT	0.55	0	0.08	0.05	0.68
GCTTGGGAAGATACAGATAG	0.18	0	0	0	0.18
CTTGGGAAGATACAGATAGGCTC	0	0	0.08	0.29	0.37
CTTGGGAAGATACAGATAGG	0	0	0	0.05	0.05
TGTGGGAAGATACAGATAGGCT	0	0	0.04	0	0.04
TGGGAAGATACAGATAGGCTC	0	0	0.04	0	0.04
GATCCTCTTTGATTTCCACAGCTTTCTTGAACAGCATCCATGATGACGAGATCGACCGATCTTTGGAGTGAGTCGACTCAGTCTCTCTATTCCTCTTAACCTGGTTTGGCGTTCAATAAAGCTGTGGGAAGATACAGATAGGCTC	0	0	0.04	0	0.04

mdm-miR396a

mdm-miR396a*-1: TTCAATAAAGCTGTGGGAAG
mdm-miR396a*-2: GTTCAATAAAGCTGTGGGAAG

>mdm-miR396c MI0023095

	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	Total
CCATGCTTTCCACA	0.18	0	0	0	0.18
CCATGCTTTCCACAGCTTTC	6.62	0.17	24.56	0.1	31.45
CCATGCTTTCCACAGCTTT	0.18	0	0.54	0	0.72
CCATGCTTTCCACAGCTT	0.18	0	0	0	0.18
CCATGCTTTCCACAGCTT	0.18	0	0.22	0	0.4
CCATGCTTTCCACAGCT	0	0.04	0	0	0.04
CCATGCTTTCCACAGC	0	0	0.54	0	0.54
CAATGCTTTCCACAGCTTCT	0	0	0.11	0	0.11
CAATGCTTTCCACAGCTTT	0.18	0	0	0	0.18
ATGCTTTCCACAGCTTTC	0	0	0.32	0	0.32
GCTTTCCACAGCTTCTTGA	0	0.08	0	0	0.08
TTTTCCACAGCTTCTTGA	0	0.04	0	0	0.04
TTTTCCACAGCTTCTTGA	0	0.04	0	0	0.04
TTTTCCACAGCTTCTTGA	0.92	0.08	0.54	0	1.54
TTTTCCACAGCTTCTTGA	0	0.04	0	0	0.04
TTTTCCACAGCTTCTTGA	0	0.04	0	0	0.04
TTTTCCACAGCTTCTTGA	0.18	0.08	0	0	0.26
TTCCACAGCTTCTTGA	23.16	0.08	41.36	0	64.6
TTCCACAGCTTCTTGA	17.27	6.66	7.11	2.77	33.81
TTCCACAGCTTCTTGA	84.54	2.01	16.16	0.29	103
TTCCACAGCTTCTTGA	69.28	2.18	24.02	0.49	95.97
TTCCACAGCTTCTTGA	26.65	1.26	23.37	0.19	51.47
TTCCACAGCTTCTTGA	2045.8	87.44	910.5	8.46	3052.2
TTCCACAGCTTCTTGA	3.49	0.17	0.43	0	4.09
TTCCACAGCTTCTTGA	2.57	0.08	6.89	0	9.54
TCCACAGCTTCTTGA	3.68	0.04	0.43	0.05	4.2
TCCACAGCTTCTTGA	0.55	0	0.43	0	0.98
TCCACAGCTTCTTGA	0	0	0.11	0	0.11
TCCACAGCTTCTTGA	3.86	0	0.43	0	4.29
TCCACAGCTTCTTGA	0.55	0.04	0	0	0.59
TCCACAGCTTCTTGA	38.78	1.09	19.39	0.24	59.5
TCCACAGCTTCTTGA	1.47	0	1.08	0	2.55
TCCACAGCTTCTTGA	1.47	0	0	0	1.47
CCACAGCTTCTTGA	0.55	0	0.11	0	0.66
CCACAGCTTCTTGA	3.12	0	0.32	0	3.44
CCACAGCTTCTTGA	6.25	0.13	5.17	0	11.55
CCACAGCTTCTTGA	0	0	0.11	0	0.11
CACAGCTTCTTGA	1.47	0	0.11	0	1.58
CACAGCTTCTTGA	0.18	0	0	0.05	0.23
CACAGCTTCTTGA	0.74	0	0	0	0.74
CACAGCTTCTTGA	4.78	0.33	3.02	0	8.13
ACAGCTTCTTGA	0	0.04	0.54	0	0.58
ACAGCTTCTTGA	10.29	0.04	6.57	0	16.9
ACAGCTTCTTGA	0.37	0	0	0	0.37
CAGCTTCTTGA	10.29	0	5.06	0	15.35
CAGCTTCTTGA	0.92	0	0.32	0	1.24
CAGCTTCTTGA	0	0	0.11	0	0.11
CAGCTTCTTGA	0	0	0.43	0	0.43
AGCTTCTTGA	6.25	0	3.55	0	9.8
GGACTAGCACCATGGAAGCTCAAGAAGCTG	0	0	0	0.05	0.05
TTGGAAGCTCAAGAAGC	0	0	0.11	0	0.11
GCTCAAGAAAGCTGTGGGA	0.18	0	0.43	0	0.61
GCTCAAGAAAGCTGTGGGAG	0.74	0.08	1.08	0.05	1.95
GCTCAAGAAAGCTGTGGGAGA	9.19	20.01	5.17	13.56	47.93
GCTCAAGAAAGCTGTGGG	0.18	0	0.11	0	0.29
GCTCAAGAAAGCTGTGGGAGAC	0	0.04	0	0.05	0.09
GCTCAAGAAAGCTGT	0.37	0	0	0	0.37
CTCAAGAAAGCTGTGGGAGACC	0	3.06	0	0.15	3.21
CTCAAGAAAGCTGTG	0	0	0.11	0	0.11
CTCAAGAAAGCTGTGGGAG	0.55	0.17	0.65	0	1.37
CTCAAGAAAGCTGTGGGAGAC	0	4.81	0.11	0.92	5.84
CTCAAGAAAGCTGTGGGA	1.29	0	3.99	0	5.28
CTCAAGAAAGCTGTGGG	0.18	0	0.22	0	0.4
CTCAAGAAAGCTGTGGGAGA	16.72	50.57	22.73	10.4	100.42
TCAAGAAAGCTGTGGGAGAC	0	0.13	0	0	0.13
TCAAGAAAGCTGTGGGAGACCA	0	0.08	0	0	0.08
TCAAGAAAGCTGTGGGAGACC	0	2.72	0	0.15	2.87
TCAAGAAAGCTGTGGGAGA	0	0.38	0	0.19	0.57
TCAAGAAAGCTGTGGG	0	0	0.11	0	0.11
CAAGAAAGCTGTGGGAGAC	0	0	0	0.05	0.05
CAAGAAAGCTGTGGGAGACC	0	0.04	0	0	0.04
AAGAAAGCTGTGGGAGACC	0	0.04	0	0	0.04
AAGAAAGCTGTGGGAGA	0	0.08	0	0	0.08
AAGAAAGCTGTGGGAGACCAT	0	0.17	0	0.1	0.27
AGAAAGCTGTGGGAGA	0.37	0.13	0.22	0.05	0.77
GAAAGCTGTGGGAGA	0.18	0	0.11	0	0.29
AAGCTGTGGGAGACCAT	0	0.04	0	0	0.04
TTGCCATGCTTTCCACAGCTTTCTTGA	0	0	0	0	0
TTGCCATGCTTTCCACAGCTTTCTTGA	0	0	0	0	0

mdm-miR396c

mdm-miR396c*-1: CTCAAGAAAGCTGTGGGAGA
mdm-miR396c*-2: GCTCAAGAAAGCTGTGGGAGA

>mdm-miR396d MI0023096

	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	Total
CCATGCTTTCCACA	0.18	0	0	0	0.18
CCATGCTTTCCACAGCTTTC	6.62	0.17	24.56	0.1	31.45
CCATGCTTTCCACAGCTTT	0.18	0	0.54	0	0.72
CCATGCTTTCCACAGCTT	0.18	0	0	0	0.18
CCATGCTTTCCACAGCT	0.18	0	0.22	0	0.4
CCATGCTTTCCACAGC	0	0.04	0	0	0.04
CATGCTTTCCACAGCTTCT	0	0	0.54	0	0.54
CATGCTTTCCACAGCTTT	0	0	0.11	0	0.11
ATGCTTTCCACAGCTTTC	0.18	0	0	0	0.18
GCTTTCCACAGCTTCTTGA	0	0	0.32	0	0.32
TTTTCCACAGCTTCTTGAACT	0	0.08	0	0	0.08
TTTTCCACAGCTTCTTGAAC	0	0.04	0	0	0.04
TTTTCCACAGCTTCTTGAA	0	0.04	0	0	0.04
TTTTCCACAGCTTCTTGAAC	0.92	0.08	0.54	0	1.54
TTTTCCACAGCTTCTTGAAC	0	0.04	0	0	0.04
TTTTCCACAGCTTCTTGA	0	0.04	0	0	0.04
TTCCACAGCTTCTTGAAC	0.18	0.08	0	0	0.26
TTCCACAGCTTCTTG	23.16	0.08	41.36	0	64.6
TTCCACAGCTTCTTGAAC	17.27	6.66	7.11	2.77	33.81
TTCCACAGCTTCTTGAAC	69.28	2.18	24.02	0.49	95.97
TTCCACAGCTTCTTGA	26.65	1.26	23.37	0.19	51.47
TTCCACAGCTTCTTGAAC	2045.8	87.44	910.5	8.46	3052.2
TTCCACAGCTTCTTGA	84.54	2.01	16.16	0.29	103
TTCCACAGCTTCTTGAAC	3.49	0.17	0.43	0	4.09
TTCCACAGCTTCTT	2.57	0.08	6.89	0	9.54
TTCCACAGCTTCTTGA	3.68	0.04	0.43	0.05	4.2
TTCCACAGCTTCTTGAAC	0.55	0	0.43	0	0.98
TTCCACAGCTTCTTGA	0	0	0.11	0	0.11
TTCCACAGCTTCTTGAAC	3.86	0	0.43	0	4.29
TTCCACAGCTTCTTGAAC	0.55	0.04	0	0	0.59
TTCCACAGCTTCTTGAAC	38.78	1.09	19.39	0.24	59.5
TTCCACAGCTTCTTG	1.47	0	1.08	0	2.55
CCACAGCTTCTTGAAC	6.25	0.13	5.17	0	11.55
CCACAGCTTCTTGA	0	0	0.11	0	0.11
CCACAGCTTCTTGA	3.12	0	0.32	0	3.44
CCACAGCTTCTTGAAC	0.55	0	0.11	0	0.66
CCACAGCTTCTTGAAC	1.47	0	0	0	1.47
CACAGCTTCTTGAAC	0.74	0	0	0	0.74
CACAGCTTCTTGAAC	0.18	0	0	0.05	0.23
CACAGCTTCTTGAAC	4.78	0.33	3.02	0	8.13
CACAGCTTCTTGA	1.47	0	0.11	0	1.58
ACAGCTTCTTGAAC	0	0.04	0.54	0	0.58
ACAGCTTCTTGAAC	0.37	0	0	0	0.37
ACAGCTTCTTGAAC	10.29	0.04	6.57	0	16.9
CAGCTTCTTGAAC	0	0	0.43	0	0.43
CAGCTTCTTGAAC	10.29	0	5.06	0	15.35
CAGCTTCTTGAAC	0.92	0	0.32	0	1.24
CAGCTTCTTGAAC	0	0	0.11	0	0.11
AGCTTCTTGAAC	6.25	0	3.55	0	9.8
TTCCGGATTAGCACCATTGAA	0.37	0	0	0	0.37
TGGAAGCTCAAGAAAGC	0	0	0.11	0	0.11
GCTCAAGAAAGCTGTGGGAGA	9.19	20.01	5.17	13.56	47.93
GCTCAAGAAAGCTGTGGGAG	0.74	0.08	1.08	0.05	1.95
GCTCAAGAAAGCTGTGGG	0.18	0	0.43	0	0.61
GCTCAAGAAAGCTGTGGG	0.18	0	0.11	0	0.29
GCTCAAGAAAGCTGT	0.37	0	0	0	0.37
GCTCAAGAAAGCTGTGGGAGAC	0	0.04	0	0.05	0.09
CTCAAGAAAGCTGTGGGAGA	16.72	50.57	22.73	10.4	100.42
CTCAAGAAAGCTGTGGGAG	0.55	0.17	0.65	0	1.37
CTCAAGAAAGCTGTG	0	0	0.11	0	0.11
CTCAAGAAAGCTGTGGGAGAC	0	4.81	0.11	0.92	5.84
CTCAAGAAAGCTGTGGGAGACC	0	3.06	0	0.15	3.21
CTCAAGAAAGCTGTGGG	0.18	0	0.22	0	0.4
CTCAAGAAAGCTGTGGG	1.29	0	3.99	0	5.28
TCAAGAAAGCTGTGGGAGA	0	0.38	0	0.19	0.57
TCAAGAAAGCTGTGGG	0	0	0.11	0	0.11
TCAAGAAAGCTGTGGGAGACCA	0	0.08	0	0	0.08
TCAAGAAAGCTGTGGGAGACC	0	2.72	0	0.15	2.87
TCAAGAAAGCTGTGGGAGAC	0	0.13	0	0	0.13
CAAGAAAGCTGTGGGAGACC	0	0.04	0	0	0.04
CAAGAAAGCTGTGGGAGAC	0	0	0	0.05	0.05
AAGAAAGCTGTGGGAGA	0	0.08	0	0	0.08
AAGAAAGCTGTGGGAGACC	0	0.17	0	0.1	0.27
AAGAAAGCTGTGGGAGACC	0	0.04	0	0	0.04
AGAAAGCTGTGGGAGA	0.37	0.13	0.22	0.05	0.77
GAAAGCTGTGGGAGA	0.18	0	0.11	0	0.29
AAGCTGTGGGAGACC	0	0.04	0	0	0.04
GCCATGCTTTCCACAGCTTCTTGAAC					
TCAATTCTMTGCTCTAAATCTCTTCCGGATTAGCACCATTGGAAGCTCAAGAAAGCTGTGGGAGACCATTGGC					

mdm-miR396d*-1: CTCAAGAAAGCTGTGGGAGA
mdm-miR396d*-2: GCTCAAGAAAGCTGTGGGAGA

>mdm-miR396e MI0023097

	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	Total
CCATGCTTTCCACA	0.18	0	0	0	0.18
CCATGCTTTCCACAGCTTTC	6.62	0.17	24.56	0.1	31.45
CCATGCTTTCCACAGCTTT	0.18	0	0.54	0	0.72
CCATGCTTTCCACAGCTT	0.18	0	0	0	0.18
CCATGCTTTCCACAGCTT	0.18	0	0	0	0.18
CCATGCTTTCCACAGCTT	0.18	0	0.22	0	0.4
CCATGCTTTCCACAGCT	0	0.04	0	0	0.04
CCATGCTTTCCACAGC	0	0	0.54	0	0.54
CATGCTTTCCACAGCTTCT	0	0	0.11	0	0.11
CATGCTTTCCACAGCTTT	0.18	0	0	0	0.18
ATGCTTTCCACAGCTTTC	0	0	0.32	0	0.32
GCTTTCCACAGCTTCTTGA	0	0.08	0	0	0.08
TTTTCCACAGCTTCTTGAAC	0	0.04	0	0	0.04
TTTTCCACAGCTTCTTGAAC	0	0.04	0	0	0.04
TTTTCCACAGCTTCTTGA	0.92	0.08	0.54	0	1.54
TTTCCACAGCTTCTTGAAC	0	0.04	0	0	0.04
TTTCCACAGCTTCTTGA	0	0.04	0	0	0.04
TTCCACAGCTTCTTGAAC	0.18	0.08	0	0	0.26
TTCCACAGCTTCTTGAAC	23.16	0.08	41.36	0	64.6
TTCCACAGCTTCTTGA	17.27	6.66	7.11	2.77	33.81
TTCCACAGCTTCTTGA	84.54	2.01	16.16	0.29	103
TTCCACAGCTTCTTGA	69.28	2.18	24.02	0.49	95.97
TTCCACAGCTTCTTGA	26.65	1.26	23.37	0.19	51.47
TTCCACAGCTTCTTGAAC	2045.8	87.44	910.5	8.46	3052.2
TTCCACAGCTTCTTGAAC	3.49	0.17	0.43	0	4.09
TTCCACAGCTTCTTGA	2.57	0.08	6.89	0	9.54
TCCACAGCTTCTTGA	3.68	0.04	0.43	0.05	4.2
TCCACAGCTTCTTGA	0.55	0	0.43	0	0.98
TCCACAGCTTCTTGA	0	0	0.11	0	0.11
TCCACAGCTTCTTGA	3.86	0	0.43	0	4.29
TCCACAGCTTCTTGA	0.55	0.04	0	0	0.59
TCCACAGCTTCTTGA	38.78	1.09	19.39	0.24	59.5
TCCACAGCTTCTTGA	1.47	0	1.08	0	2.55
TCCACAGCTTCTTGA	1.47	0	0	0	1.47
CCACAGCTTCTTGA	0.55	0	0.11	0	0.66
CCACAGCTTCTTGA	3.12	0	0.32	0	3.44
CCACAGCTTCTTGA	6.25	0.13	5.17	0	11.55
CCACAGCTTCTTGA	0	0	0.11	0	0.11
CACAGCTTCTTGA	1.47	0	0.11	0	1.58
CACAGCTTCTTGA	0.18	0	0	0.05	0.23
CACAGCTTCTTGA	0.74	0	0	0	0.74
CACAGCTTCTTGA	4.78	0.33	3.02	0	8.13
ACAGCTTCTTGA	0	0.04	0.54	0	0.58
ACAGCTTCTTGA	10.29	0.04	6.57	0	16.9
ACAGCTTCTTGA	0.37	0	0	0	0.37
CAGCTTCTTGA	10.29	0	5.06	0	15.35
CAGCTTCTTGA	0.92	0	0.32	0	1.24
CAGCTTCTTGA	0	0	0.11	0	0.11
CAGCTTCTTGA	0	0	0.43	0	0.43
CAGCTTCTTGA	6.25	0	3.55	0	9.8
AGCTTCTTGA	0	0	0	0.05	0.05
GGACTAGCACCATGGAAGCTCAAGAAAGCTG	0	0	0.11	0	0.11
TGGAAGCTCAAGAAAGC	0.18	0	0.43	0	0.61
GCTCAAGAAAGCTGTGGGA	0.74	0.08	1.08	0.05	1.95
GCTCAAGAAAGCTGTGGAG	9.19	20.01	5.17	13.56	47.93
GCTCAAGAAAGCTGTGGG	0.18	0	0.11	0	0.29
GCTCAAGAAAGCTGTGGGAGAC	0	0.04	0	0.05	0.09
GCTCAAGAAAGCTGT	0.37	0	0	0	0.37
CTCAAGAAAGCTGTGGGAGACC	0	3.06	0	0.15	3.21
CTCAAGAAAGCTGTG	0	0	0.11	0	0.11
CTCAAGAAAGCTGTGGGAG	0.55	0.17	0.65	0	1.37
CTCAAGAAAGCTGTGGGAGAC	0	4.81	0.11	0.92	5.84
CTCAAGAAAGCTGTGGGA	1.29	0	3.99	0	5.28
CTCAAGAAAGCTGTGGG	0.18	0	0.22	0	0.4
CTCAAGAAAGCTGTGGGAGA	16.72	50.57	22.73	10.4	100.42
TCAAGAAAGCTGTGGGAGAC	0	0.13	0	0	0.13
TCAAGAAAGCTGTGGGAGACCA	0	0.08	0	0	0.08
TCAAGAAAGCTGTGGGAGACC	0	2.72	0	0.15	2.87
TCAAGAAAGCTGTGGGAGA	0	0.38	0	0.19	0.57
TCAAGAAAGCTGTGGGA	0	0	0.11	0	0.11
CAAGAAAGCTGTGGGAGAC	0	0	0	0.05	0.05
CAAGAAAGCTGTGGGAGACC	0	0.04	0	0	0.04
AAGAAAGCTGTGGGAGACC	0	0.04	0	0	0.04
AAGAAAGCTGTGGGAGA	0	0.08	0	0	0.08
AAGAAAGCTGTGGGAGACCAT	0	0.17	0	0.1	0.27
AGAAAGCTGTGGGAGA	0.37	0.13	0.22	0.05	0.77
GAAAGCTGTGGGAGA	0.18	0	0.11	0	0.29
AAGCTGTGGGAGACCAT	0	0.04	0	0	0.04
TTGCCATGCTTTCCACAGCTTTCTTGAAC					
TTCAAGCTTTCAATTTCTCTGTCTGTTAAATKCTTTTCAGGACTAGCACCATGGAAGCTCAAGAAAGCTGTGGGAGACCATGGCAA					

mdm-miR396e

mdm-miR396e*-1: CTCAAGAAAGCTGTGGGAGA
mdm-miR396e*-2: GCTCAAGAAAGCTGTGGGAGA

>mdm-miR396f MI0023098

AATTTCCACGGCTTCTTGAAC
AATTTCCACGGCTTCTTG
TTCCACGGCTTCTTGAACGT
TTCCACGGCTTCTT
TTCCACGGCTTCTTG
TTCCACGGCTTCTTGAACGT
TTCCACGGCTTCTTGAACGT
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TTCCACGGCTTCTTGAACGT
TTCCACGGCTTCTTGAAC
TTCCACGGCTTCTTGA
TTCCACGGCTTCTTGAAC
TTCCACGGCTTCTTGAA
TTCCACGGCTTCTTGAACGT
TTCCACGGCTTCTTGAA
TTCCACGGCTTCTTGAACGT
CACGGCTTCTTGAACGT
CACGGCTTCTTGAACGT
CACGGCTTCTTGAACGT
ACGGCTTCTTGAACGT
ACGGCTTCTTGAACGT
CGGCTTCTTGAACGT
CGGCTTCTTGAACGTGAGT
CGGCTTCTTGAACGT
CGGCTTCTTGAACGTGAGT
GGCTTCTTGAACGT

GTGCACATACAGATGATCCTCCCTGTAATTTCCACGGCTTCTTGAACGTGTCAGTTCCAGAAGATTAACTGGCAGAAATTTTCATGCAGATACAAAAAGTTCAAGAAAGCTGTGAAAAACCACCGCAGGATCTGAGTTGTTTCA
mdm-miR396f

GTTCAAGAAAGCTGTGAAAA
TTCAAGAAAGCTGTGAAAA
TTCAAGAAAGCTGTGAAAAAC
AGAAAGCTGTGAAAAACCAC
AGAAAGCTGTGAAAAACCAC

GSM80652_apple_leaf	GSM80654_apple_flower	GSM80653_apple_root	GSM80655_apple_fruit	Total
0.04	0	0	0	0.04
0.08	0	0	0	0.08
0	0.18	0	0	0.18
0	0.55	0	0.22	0.77
0	0.92	0	3.88	4.8
39.6	183.22	1.46	182.25	406.53
3.56	17.46	0.05	11.53	32.6
0.29	2.02	0	0.54	2.85
0.75	6.98	0	2.15	9.88
1.17	0.55	0	0.86	2.58
0.25	0	0	1.51	1.76
0.04	0.18	0	0.22	0.44
0	0	0	0.11	0.11
0.08	0.18	0	0.54	0.8
0	0	0	0.11	0.11
0.29	4.23	0	3.02	7.54
0.04	4.41	0	2.05	6.5
0.04	0	0	0	0.04
0	0.18	0	0	0.18
0	0.18	0	0.43	0.61
0	0	0	0.11	0.11
0	0.18	0	0	0.18
0.04	0.18	0	0	0.22
0.08	4.04	0	0.54	4.66
0.04	0	0	0	0.04
0	0.18	0	0.32	0.5
0.04	0	0	0	0.04
0	9.01	0	2.05	11.06
0.04	0	0	0	0.04
0	6.8	0	0.65	7.45
0.04	0	0	0	0.04
0.17	0	0	0	0.17
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0	0	0	0.11	0.11

mdm-miR396f*: GTTCAAGAAAGCTGTGAAAA

>mdm-miR396g MI0023099

TTCCACGGCTTCTTGAAGT
 TTCCACGGCTTCTTGAA
 TTCCACGGCTTCTTGAAGTGT
 TTCCACGGCTTCTT
 TTCCACGGCTTCTTG
 TTCCACGGCTTCTTGAAGT
 TTCCACGGCTTCTTGAAGT
 TTCCACGGCTTCTTGAAG
 TTCCACGGCTTCTTGA
 TTCCACGGCTTCTTGAAG
 TTCCACGGCTTCTTGA
 TTCCACGGCTTCTTGAAGT
 TTCCACGGCTTCTTG
 TTCCACGGCTTCTTGAAGT
 TTCCACGGCTTCTTGAAGTGT
 TTCCACGGCTTCTTGAA
 CCACGGCTTCTTGAAGT
 CCACGGCTTCTTGAAGT
 CCACGGCTTCTTGAAGTGT
 CACGGCTTCTTGAAGT
 CACGGCTTCTTGAAGT
 ACGGCTTCTTGAAGT
 ACGGCTTCTTGAAGT
 CGGCTTCTTGAAGT
 CGGCTTCTTGAAGTGT
 CGGCTTCTTGAAGTGTGCAGT
 CGGCTTCTTGAAGTGTGCAG
 GGCTTCTTGAAGT

GTTCAAGAAAGCTGTGAAAAA
 TTCAGAAAGCTGTGAAAAAC
 TTCAGAAAGCTGTGAAAAA
 AGAAAGCTGTGAAAAACCA
 AGAAAGCTGTGAAAAACAC
 AAAGCTGTGAAAAACACAGGCAG

GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
0.18	0	0	0	0.18
2.02	0	0.54	0.29	2.85
6.98	0	2.15	0.75	9.88
0.55	0	0.22	0	0.77
0.92	0	3.88	0	4.8
17.46	0.05	11.53	3.56	32.6
183.22	1.46	182.25	39.6	406.53
0.55	0	0.86	1.17	2.58
0	0	1.51	0.25	1.76
0.18	0	0.22	0.04	0.44
0	0	0.11	0	0.11
0.18	0	0.54	0.08	0.8
0	0	0.11	0	0.11
4.23	0	3.02	0.29	7.54
4.41	0	2.05	0.04	6.5
0	0	0	0.04	0.04
0.18	0	0.43	0	0.61
0	0	0.11	0	0.11
0.18	0	0	0	0.18
0.18	0	0	0.04	0.22
0.18	0	0	0	0.18
0	0	0	0.04	0.04
4.04	0	0.54	0.08	4.66
9.01	0	2.05	0	11.06
0.18	0	0.32	0	0.5
0	0	0	0.04	0.04
0	0	0	0.04	0.04
6.8	0	0.65	0	7.45
0	0	0	0.04	0.04
0	0	0	0.04	0.04
0	0	0	0.17	0.17
0	0	0.11	0	0.11
0	0	0	0.04	0.04
0	0.05	0	0	0.05

GATCCTCCTTGRGATTTCCACGGCTTCTTGAAGTGTGCAGTGTGCAGAGGTTAAACTGGCAGAAATTTTCATGCAGTTACATAAACAGTTCAAGAAAGCTGTGAAAAACACAGGCAGGATT

mdm-miR396g

mdm-miR396g*: GTTCAAGAAAGCTGTGAAAAA

>mdm-MIR397a MI0023100

	GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880654_apple_flower	Total
AACATCATTGAGTGCAGCGTT	0.05	0	0	0	0.05
ATCATTGAGTGCAGCGTTGATGAA	0	0.11	0	0	0.11
TCATTGAGTGCAGCGTT	0.05	0	0	0	0.05
TCATTGAGTGCAGCGTTGATG	35.77	0	0.38	0	36.15
TCATTGAGTGCAGCGTTGAT	0.15	0	0	0	0.15
TCATTGAGTGCAGCGTTGATGA	0.1	0	0	0	0.1
TCATTGAGTGCAGCGTTGA	0.44	0	0	0	0.44
CATTGAGTGCAGCGTTGATG	0.1	0	0	0	0.1
CATTGAGTGCAGCGTTGATGA	6.76	0	0.04	0	6.8
CATTGAGTGCAGCGTTGATGAAA	0.05	0	0	0	0.05
CATTGAGTGCAGCGTTGATGAA	0.19	0	0	0	0.19
ATTGAGTGCAGCGTTGATGAAA	0.39	0	0	0	0.39
ATTGAGTGCAGCGTTGATGAA	43.89	0.43	0.46	0.55	45.33
ATTGAGTGCAGCGTTGATGA	2.87	0	0.04	0	2.91
ATTGAGTGCAGCGTTGAT	0.05	0	0	0	0.05
ATTGAGTGCAGCGTTGA	0	0.11	0	0	0.11
ATTGAGTGCAGCGTTGATG	0.05	0	0	0	0.05
ATTGAGTGCAGCGTTGATGAAAAGT	0.05	0	0	0	0.05
TTGAGTGCAGCGTTGATGAAA	52.64	0.65	1.55	0.37	55.21
TTGAGTGCAGCGTTGATGAAAAGT	0.05	0	0	0	0.05
TTGAGTGCAGCGTTGATG	0.15	0	0	0	0.15
TTGAGTGCAGCGTTGATGAA	2.67	0	0.08	0	2.75
TTGAGTGCAGCGTTGATGAAAAG	7.83	0.22	0.17	0.18	8.4
TTGAGTGCAGCGTTGATGA	0.92	0	0.04	0	0.96
TGAGTGCAGCGTTGATGAAAAG	0.68	0	0	0	0.68
TGAGTGCAGCGTTGATGAAA	0.24	0	0	0	0.24
GAGTGCAGCGTTGATGAAAAGT	0.29	0	0	0	0.29
GAGTGCAGCGTTGATGA	0.1	0	0	0	0.1
GAGTGCAGCGTTGATGAAA	0.1	0	0.04	0	0.14
GAGTGCAGCGTTGATGAAAAG	0.05	0	0	0	0.05
GAGTGCAGCGTTGATGAA	0.05	0	0	0	0.05
AGTGCAGCGTTGATGAA	0.15	0	0	0	0.15
GCAGCGTTGATGAAA	0.05	0	0	0	0.05
CTTCGTCAGCTGTGCACCCAA	0.05	0	0	0	0.05
TTTCGTCAGCTGTGCACCCAAAT	1.31	0	0	0	1.31
TTTCGTCAGCTGTGCACCCAA	32.81	0	0.42	0	33.23
TTTCGTCAGCTGTGCACCCAA	0.24	0	0	0	0.24
TTTCGTCAGCTGTGCACCCAAATAT	0.05	0	0	0	0.05
TTTCGTCAGCTGTGCACCCAAATTA	0.05	0	0	0	0.05
TTTCGTCAGCTGTGCACCCAAAT	2.24	0	0	0	2.24
TTTCGTCAGCTGTGCACCCAAAT	0.58	0	0	0	0.58
TTTCGTCAGCTGTGCACCCAA	0.05	0	0	0	0.05
TTTCGTCAGCTGTGCACCCAA	0.29	0	0	0	0.29
TCGTCAGCTGTGCACCCAAAT	0.78	0	0	0	0.78
CGTCAGCTGTGCACCCAAATTA	0	0.11	0	0	0.11
GTCAGCTGTGCACCCAA	0.05	0	0	0	0.05
TCAGCTGTGCACCCAA	0.05	0	0	0	0.05
AGAAACATCATTGAGTGCAGCGTTGATGAAAAGTCCGTATTCCTTWCGAATCTTCATTAGGCATCGGAAACTTTCGTCAGCTGTGCACCCAAATATGTTTCT					

mdm-miR397a

mdm-miR397a*: TCGTCAGCTGTGCACCCAAAT

>mdm-miR398a MI0023102

	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	GSM880654_apple_flower	Total
0	0.04	0	0	0	0.04
CAAAGGTGTGAAACTGAGAACA	3.31	0.54	0.1	1.84	5.79
CAAAGGTGTGAAACTGAGAACA	0.13	0	0	0	0.13
CAAAGGTGTGAAACT	0	0.11	0	0.37	0.48
CAAAGGTGTGAAACTGA	0	0	0	0.18	0.18
CAAAGGTGTGAAACTGAGA	0	0.43	0	0	0.43
CAAAGGTGTGAAACTGAGA	0	0.32	0	0	0.32
AAGGTGTGAAACTGAGA	0	0	0	0.37	0.37
AAGGTGTGAAACTGAGAACA	0	0.11	0	0.18	0.29
AAGGTGTGAAACTGAGAACA	0.04	0	0	0	0.04
GGTGTGAAACTGAGAACA	7.74	3.02	0	2.02	12.78
GGTGTGAAACTGAGAACA	0.25	0.32	0	0.74	1.31
GGTGTGAAACTGAGAACA	0.04	0	0	0	0.04
GGTGTGAAACTGAGAACA	0.08	0	0	0	0.08
TGTGAAACTGAGAACA	0.04	0	0	0	0.04
GTGAAACTGAGAACA	0.42	0	0	0	0.42
TGAAACTGAGAACA	0.17	0	0	0	0.17
GAAACTGAGAACA	0.04	0	0	0	0.04
AAACTGAGAACA	0	0	0.05	0	0.05
CGACAAACATTGTAAGCACTGCTT	0.04	0	0	0	0.04
ACTGCTTACGCATTTGTGTTCTC	0	0	0	0.37	0.37
GCTTACGCATTTGTGTTCTCAGG	0	0	0	0.18	0.18
ACGCATTTGTGTTCTCAGGTCAC	0.04	0	0.1	0	0.14
CATTTGTGTTCTCAGGTCAC	0	0.11	0	0	0.11
ATTTGTGTTCTCAGGTCACCCCT	0	0	0.05	0	0.05
TGTGTTCTCAGGTCACCCCT	0.04	0	0	0.18	0.22
TGTGTTCTCAGGTCACCCCT	0.54	13.03	0	16.36	29.93
TGTGTTCTCAGGTCACCCCT	0	0.43	0	0	0.43
TGTGTTCTCAGGTCACCC	0	0.11	0	0	0.11
TGTGTTCTCAGGTCAC	0	0	0	0.18	0.18
TGTGTTCTCAGGTCACCCCTT	0.04	0	0	0	0.04
GTGTTCTCAGGTCACCCCTT	0	0.32	0	0.37	0.69
TGTGTTCTCAGGTCACCCCT	0	0	0	0.18	0.18
GTGTTCTCAGGTCACCC	0	0	0	0.18	0.18
GTGTTCTCAGGTCACCCCTT	0	0	0	0.18	0.18
TGTGTTCTCAGGTCACCCCTTGGG	0.5	0	0	0	0.5

GTTCATATAGCARATGGTCACCCCAAAGGTGTGAAACTGAGAACA

mdm-miR398a

mdm-miR398a*: GGTGTGAAACTGAGAACA

>mdm-miR398b MI0023103

	GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880654_apple_flower	Total
GTAGAGGGGTTCCACAGGAG	0.05	0	0	0	0.05
GGTCCACAGGAGTGACCTG	0.05	0	0	0	0.05
AGGAGTGACCTGAGATCACAT	0.34	0	0	0	0.34
GGAGTGACCTGAGATCACAT	0.05	0	0	0	0.05
GGAGTGACCTGAGATCACATG	0.24	0.75	0	0	0.99
GACCTGAGATCACATGTAGCATT	0.05	0	0	0	0.05
ATGTATTGCGCTTGATGTGTTCTC	0	0.32	0	0	0.32
CGCTTGATGTGTTCTCAGGTGCGCC	0	0.11	0	0	0.11
TGATGTGTTCTCAGGTGCGCCCC	0.15	0	0	0	0.15
TGATGTGTTCTCAGGTGCGC	0.05	0	0	0	0.05
TGATGTGTTCTCAGGTGCGCCCC	3.11	0	0.04	0	3.15
TGATGTGTTCTCAGGTGCG	0.05	0	0	0	0.05
TGATGTGTTCTCAGG	0.05	0	0	0	0.05
TGATGTGTTCTCAGGTGCGCCCCCT	0.78	0	0.04	0	0.82
TGATGTGTTCTCAGGTGCGCCCCCTG	0.53	0	0.04	0	0.57
TGATGTGTTCTCAGGTGCGCC	9.62	0	0.21	0	9.83
TGATGTGTTCTCAGGTGCGCCCCCTG	31.16	0.32	1.67	0.18	33.33
TGATGTGTTCTCAGGTGCGCCCC	0.83	0.11	0.04	0	0.98
TGATGTGTTCTCAGGTGCGCC	0.05	0	0	0	0.05
TGATGTGTTCTCAGGTGCGCCCCCT	0.53	0	0	0	0.53
TGATGTGTTCTCAGGTGCGCCC	0.15	0	0	0	0.15
GTGTTCTCAGGTGCGCCCCCTG	0.05	0	0	0	0.05
GTGCCCCCTGCGGTACCTTCTC	0.1	0	0.08	0	0.18
GTGCCCCCTGCGGTACCTTCT	0.05	0	0	0	0.05
TGCCCCCTGCGGTACCTTCTCT	0.05	0	0.04	0	0.09
TGCCCCCTGCGGTACCTTCTC	0.34	0	0.13	0	0.47
TGCCCCCTGCGGTACCTTCT	0.05	0	0.04	0	0.09
CGCCCCCTGCGGTACCTTCTCTA	0.05	0	0	0	0.05
GCCCCCTGCGGTACCTTCTCTAC	0	0	0.04	0	0.04
CCCCCTGCGGTACCTTCTCTA	0.05	0	0	0	0.05
CCCTGCGGTACCTTCTCTA	0.05	0	0	0	0.05
GGTAGAGGGGTTCCACAGGAGTGACCTGAGATCACATGTAGCATTATGTATTGCGCTTGATGTGTTCTCAGGTGCGCCCCCTGCGGTACCTTCTCTACC					

mdm-miR398b

mdm-miR398b*: GGAGTGACCTGAGATCACATG

>mdm-MIR398c MI0023104

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	Total
GTTAGAGGGGTTCTGCAGGA	0.04	0	0	0	0.04
GGTAGAGGGGTTCTGCAGGAGTGAC	0.04	0	0	0	0.04
GTAGAGGGGTTCTGCAGGAG	0.04	0.05	0	0	0.09
AGAGGGGTTCTGCAGGAGT	0.29	0.34	0	0	0.63
AGAGGGGTTCTGCAGGAGTG	0.54	1.41	0	0	1.95
AGAGGGGTTCTGCAGGAGTGAC	0.13	0.68	0	0	0.81
AGAGGGGTTCTGCAGGA	0.04	0	0	0	0.04
AGAGGGGTTCTGCAGGAG	0.04	0	0	0	0.04
AGAGGGGTTCTGCAGGAGTGA	5.57	11.08	0	0	16.65
GAGGGGTTCTGCAGGAGTGAC	1.26	2.14	0	0	3.4
AGGGGTTCTGCAGGAGTGACCTGA	0.17	0.1	0	0	0.27
AGGGGTTCTGCAGGAGTGAC	0.04	0.1	0	0	0.14
AGGGGTTCTGCAGGAGTGACC	2.55	2.28	0	0	4.83
AGGGGTTCTGCAGGAGTGA	0.13	0.05	0	0	0.18
GGGGTTCTGCAGGAGTGACCTGA	0.04	0	0	0	0.04
GGGGTTCTGCAGGAGTGAC	0.13	0.44	0	0	0.57
GGGGTTCTGCAGGAGTGACCT	2.8	9.87	0	0	12.67
GGGGTTCTGCAGGAGTGA	0.04	0.15	0	0	0.19
GGGGTTCTGCAGGAGTGACC	3.93	8.07	0	0	12
GGGTTCTGCAGGAGTGACC	0	0.05	0	0	0.05
GGGTTCTGCAGGAGTGA	0	0.05	0	0	0.05
GGTTCTGCAGGAGTGACCT	0.04	0	0	0	0.04
GGTTCTGCAGGAGTGACCTG	0	0.05	0	0	0.05
TTCTGCAGGAGTGACCTGAGA	0	0.05	0	0	0.05
TTCTGCAGGAGTGACC	0.04	0	0	0	0.04
TCTGCAGGAGTGACCTGAGAT	0	0.1	0	0	0.1
TCTGCAGGAGTGACCT	0	0.05	0	0	0.05
AGGAGTGACCTGAGATCACAT	0	0.34	0	0	0.34
GGAGTGACCTGAGATCACATAT	0	0.05	0	0	0.05
GGAGTGACCTGAGATCACATA	0.21	0.63	0.55	0.32	1.71
GGAGTGACCTGAGATCACAT	0	0.05	0	0	0.05
GAGTGACCTGAGATCACATA	0	0.05	0	0	0.05
AGTGACCTGAGATCACATATGGCG	0.08	0.05	0	0	0.13
TGACCTGAGATCACATATGGCGTTA	0	0.05	0	0	0.05
TGACCTGAGATCACATATGGCGTT	0	0.05	0	0	0.05
GACCTGAGATCACATA	0	0.05	0	0	0.05
ACCTGAGATCACATATGGCGTT	0	0.1	0	0	0.1
ACCTGAGATCACATATGGCGTTA	0.04	0.05	0	0	0.09
ACCTGAGATCACATATGGCGTTAT	0.08	0.05	0.18	0	0.31
CCTGAGATCACATATGGCGTTAT	0	0.05	0	0	0.05
CCTGAGATCACATATGGCGTT	0	0.1	0	0	0.1
CCTGAGATCACATATGGCGTTA	0	0.1	0	0	0.1
CTGAGATCACATATGGCGTTATGT	0	0.05	0	0	0.05
TGAGATCACATATGGCGTT	0	0.29	0	0	0.29
TGAGATCACATATGGCGTTAT	0	0.05	0	0	0.05
TGAGATCACATATGGCGTTA	0	0.29	0	0	0.29
GAGATCACATATGGCGTTATG	0	0.05	0	0	0.05
GAGATCACATATGGCGTTA	0	0.05	0	0	0.05
ATGTGTTGCGCTTGATGTGTTCT	0.04	0	0	0	0.04
GTTGCGCTTGATGTGTTCTCAG	0	0.05	0	0	0.05
CGCTTGATGTGTTCTCAGGTGCGCC	0	0	0	0.11	0.11
TGATGTGTTCTCAGGTGCGCCCC	0	0.15	0	0	0.15
TGATGTGTTCTCAGGTGCGC	0	0.05	0	0	0.05
TGATGTGTTCTCAGGTGCGCC	0.21	9.52	0	0	9.83
TGATGTGTTCTCAGGTGCGCCCT	0.04	0.78	0	0	0.82
TGATGTGTTCTCAGGTGCGCCCTG	0.04	0.53	0	0	0.57
TGATGTGTTCTCAGGTGCGCCCC	0.04	3.11	0	0	3.15
TGATGTGTTCTCAGGTGCG	0	0.05	0	0	0.05
TGATGTGTTCTCAGG	0	0.05	0	0	0.05
TGTGTTCTCAGGTGCGCCCTG	1.67	31.16	0.18	0.32	33.33
TGTGTTCTCAGGTGCGCC	0	0.05	0	0	0.05
TGTGTTCTCAGGTGCGCCCT	0	0.53	0	0	0.53
TGTGTTCTCAGGTGCGCCCC	0.04	0.83	0	0.11	0.98
TGTGTTCTCAGGTGCGCC	0	0.15	0	0	0.15
TGTGTTCTCAGGTGCGCCCTG	0	0.05	0	0	0.05
GTCGCCCTGCGGTACCTTCTC	0.08	0.1	0	0	0.18
GTCGCCCTGCGGTACCTTCT	0	0.05	0	0	0.05
TGCGCCCTGCGGTACCTTCTCT	0.04	0.05	0	0	0.09
TGCGCCCTGCGGTACCTTCT	0.04	0.05	0	0	0.09
TGCGCCCTGCGGTACCTTCTC	0.13	0.34	0	0	0.47
CGCCCTGCGGTACCTTCTCTA	0	0.05	0	0	0.05
GCCCTGCGGTACCTTCTCTAC	0.04	0	0	0	0.04
CCCTGCGGTACCTTCTCTA	0	0.05	0	0	0.05
CCCTGCGGTACCTTCTCTA	0	0.05	0	0	0.05
CGGGTAGAGGGGTTCTGCAGGAGTGACCTGAGATCACATATGGCGTTATGTGTTGCGCTTGATGTGTTCTCAGGTGCGCCCTGCGGTACCTTCTCTACCAC	0	0	0	0	0

mdm-miR398c

mdm-miR398c*: GGAGTGACCTGAGATCACATA

>mdm-MIR399b MI0023106

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	Total
ACAGTCAAATCTCCTTTGGCAGA	0.04	0	0	0	0.04
AGTGCAAATCTCCTTTGGCAGA	0.17	0	0	0	0.17
AGTGCAAATCTCCTTTGGCAGAAA	0	0.05	0	0	0.05
GTGCAAATCTCCTTTGGC	0	0	0.18	0.32	0.5
GTGCAAATCTCCTTTGGCAGA	24.03	1.31	4.23	8.94	38.51
GTGCAAATCTCCTTTGG	0.04	0	0.37	0	0.41
GTGCAAATCTCCTTTGGCAG	0	0.05	0.18	0	0.23
GTGCAAATCTCCTTTGGCA	0.13	0.05	0	0	0.18
GTGCAAATCTCCTTTGGCAGAAAT	0.04	0	0	0	0.04
GTGCAAATCTCCTTTGGCAGAAA	0.46	0	0	0	0.46
GTGCAAATCTCCTTTGGCAGAA	0.33	0	0	0	0.33
TGCAAATCTCCTTTGGCAGA	0	0	0	0.11	0.11
GCAAATCTCCTTTGGCAGA	0.04	0	0	0	0.04
GCAAATCTCCTTTGGCA	0	0	0	0.11	0.11
CAAATCTCCTTTGGC	0	0	0.18	0.11	0.29
CAAATCTCCTTTGGCAGA	0.08	0	0	0.11	0.19
AAATCTCCTTTGGCAGA	0.04	0	0	0	0.04
ATCTCCTTTGGCAGA	0	0	0	0.11	0.11
TCCTTTGGCAGAAATGATTCT	0.04	0	0	0	0.04
TTGGCAGAAATGATTCTGGTG	0.04	0	0	0	0.04
TGATTCTGGTGCAATTACTCT	0.04	0	0	0	0.04
TCTGGTGCAATTACTCTTGAG	0.04	0	0	0	0.04
CTACCCTGGATATGCTTTCTG	0.08	0	0	0	0.08
ATATGCTTTCTGCCAAAGGAG	0.04	0	0	0	0.04
TTTCTGCCAAAGGAGAATTGC	0.04	0	0	0	0.04
TTCTGCCAAAGGAGAATTGCC	0.08	0	0	0	0.08
TCTGCCAAAGGAGAATTGCC	0.08	0	0	0	0.08
CTGCCAAAGGAGAATTGCCCTG	0.13	0	0	0	0.13
CTGCCAAAGGAGAATTGCCCT	0.04	0	0	0	0.04
TGCCAAAGGAGAATTGC	0.46	0	0.37	0	0.83
TGCCAAAGGAGAATTGCC	1.63	0	0.18	1.4	3.21
TGCCAAAGGAGAATTG	0.04	0	0.18	0.32	0.54
TGCCAAAGGAGAATTGCCCT	2.55	0.15	0.55	2.59	5.84
TGCCAAAGGAGAATTGCCCTG	87.9	1.07	88.03	253.88	430.88
TGCCAAAGGAGAATTGCC	1.26	0.05	4.41	0.75	6.47
TGCCAAAGGAGAATT	0.08	0	0	0	0.08
GCCAAAGGAGAATTGCC	0	0	0.37	0.22	0.59
GCCAAAGGAGAATTGCCCTGC	0.04	0	0	0.11	0.15
GCCAAAGGAGAATTG	0	0	0	0.11	0.11
GCCAAAGGAGAATTGCCCTG	0.25	0	1.65	2.59	4.49
GCCAAAGGAGAATTGCCCT	0	0	0	0.22	0.22
GCCAAAGGAGAATTGCC	0.04	0	0	0	0.04
CCAAAGGAGAATTGCC	0	0	0	0.11	0.11
CCAAAGGAGAATTGCCCTG	0.04	0	0.37	0.86	1.27
CCAAAGGAGAATTGCC	0	0	0.37	0	0.37
CCAAAGGAGAATTGCCCTGCA	0.04	0	0	0	0.04
CAAAGGAGAATTGCC	0	0	0.18	0	0.18
CAAAGGAGAATTGCCCTG	0.29	0	0.92	1.18	2.39
CAAAGGAGAATTGCC	0	0	0	0.32	0.32
AAAGGAGAATTGCCCTG	0.08	0	0.74	1.18	2
AAGGAGAATTGCCCTG	0.04	0	0.92	0.65	1.61
AGGAGAATTGCCCTG	0	0	4.23	0.43	4.66
TGAATAACAGTGCAAATCTCCTTTGGCAGAAATGATTCTGGTGCAATTACTCTTGAGTACTACCCTGGATATGCTTTCTGCCAAAGGAGAATTGCCCTGCAATTCA	0	0	0	0	0

mdm-miR399b

mdm-miR399b*: GTGCAAATCTCCTTTGGCAGA

>mdm-miR399d MI0023108

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TTAGTTGTAGGGCTTCTCTCC
TAGGGTTCTCTCCGATGGCA
AGGGTTCTCTCCGATGGCAGG
AGGGTTCTCTCCGATGGCAGGA
AGGGTTCTCTCCGATGGCAG
AGGGTTCTCTCCGATGGCA
GGGTTCTCTCCGATGGCAGG
GGGTTCTCTCCGATGGCAG
GGGTTCTCTCCGATGGCA
TCTCTCCGATGGCAGG
TCTCTCCGATGGCAGGAATA
AATGGTCATGAATCA
CCTGCCAAAGGAGAGTTGCC
CTGCCAAAGGAGAGTTGCC
CTGCCAAAGGAGAGTTGCCCTA
CTGCCAAAGGAGAGTTGCCCT
TGCCAAAGGAGAGTTGCCCTA
TGCCAAAGGAGAGTT
TGCCAAAGGAGAGTTGCC
TGCCAAAGGAGAGTTG
TGCCAAAGGAGAGTTGCC
TGCCAAAGGAGAGTTGCCCT
TGCCAAAGGAGAGTTGC
GCCAAAGGAGAGTTGCCCTAC
GCCAAAGGAGAGTTGCCCTA
CCAAAGGAGAGTTGCCCTA
CCAAAGGAGAGTTGCCCTACG
CCAAAGGAGAGTTGCCCTAC
CAAAGGAGAGTTGCCCTA
AAAGGAGAGTTGCCCTA
AGGAGAGTTGCCCTA
TGAGCGAATTAGTTGTAGGGCTTCTCTCCGATGGCAGGAATAATTAATGGTCATGAATCATGGAAGCATGGATTTTGTGTCTCTCATGAGTTATGACCTGCCAAAGGAGAGTTGCCCTACGACTGCTTTTGCTTA
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mdm-miR399d

GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	Total
0.05	0	0	0	0.05
0.24	0.8	0.11	0	1.15
0.05	0.42	0	0	0.47
0	0.04	0	0	0.04
0.05	0.04	0	0	0.09
0	0.04	0	0	0.04
0.19	0.17	0.22	0	0.58
0	0	0.11	0	0.11
0	0.04	0	0	0.04
0.05	0	0	0	0.05
0.05	0	0	0	0.05
0	0	0.11	0	0.11
0	0.08	0.65	0	0.73
0.05	0.17	0.22	0	0.44
0	0	0.22	0	0.22
0	0	0.11	0	0.11
0.05	0.33	28.44	0.74	29.56
0	0	0.43	0.18	0.61
0	0.54	0.22	0.18	0.94
0	0.04	0.22	0	0.26
0.05	0.63	0	0	0.68
0	0.08	0.54	0	0.62
0	0	0	0.18	0.18
0	0	0.11	0	0.11
0	0	0.32	0	0.32
0	0	0.11	0	0.11
0	0.04	0	0	0.04
0	0.04	0	0	0.04
0	0	0.11	0	0.11
0	0	0.11	0	0.11
0	0	0.11	0	0.11

mdm-miR399d*: GGGCTTCTCTCCGATGGCAGG

>mdm-miR399e MI0023109

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
CAGGGCAAAGTCTCTTCTGGCAT	0.08	0	0	0	0.08
AGGGCAAAGTCTCTTCTGGCATGT	0.04	0	0	0	0.04
AGGGCAAAGTCTCTTCTGGCATG	0.04	0	0	0	0.04
AGGGCAAAGTCTCTTCTGGCAT	0.08	0	0	0	0.08
GGGCAAAGTCTCTTCTGGCATG	60.32	0.19	4.42	0.18	65.11
GGGCAAAGTCTCTTCTGGCATGT	0.5	0	0.65	0	1.15
GGGCAAAGTCTCTTCTGGCA	0.21	0	0	0	0.21
GGGCAAAGTCTCTTCTGGCATGTAG	0.08	0	0	0	0.08
GGGCAAAGTCTCTTCTGGCATGTA	0.04	0	0	0	0.04
GGGCAAAGTCTCTTCTGG	0	0	0.22	0	0.22
GGGCAAAGTCTCTTCTGGC	0	0	0.11	0	0.11
GGGCAAAGTCTCTTCTGGCAT	0.92	0	0	0	0.92
GGCAAAGTCTCTTCTGGCATG	0.04	0	0	0	0.04
GGCAAAGTCTCTTCTGGCATGTAG	0.04	0	0	0	0.04
GCAAAGTCTCTTCTGGCATG	0	0	0.11	0	0.11
AAAGTCTCTTCTGGCATGTAG	0.04	0	0	0	0.04
AAAGTCTCTTCTGGCATG	0.13	0	0	0	0.13
AAAGTCTCTTCTGGCATGTAGC	0.42	0	0	0	0.42
TTCTTAATTCTGGCTGAGCAA	0.04	0	0	0	0.04
TTATGCCAAAGGAGATTGCTCGG	0.25	0.1	0	0	0.35
TATGCCAAAGGAGATTGCTCGG	0.33	0.1	0	0	0.43
ATGCCAAAGGAGATTGCTCGG	2.55	0.05	0.43	0	3.03
ATGCCAAAGGAGATTGCTCG	0.08	0	0	0	0.08
ATGCCAAAGGAGATTGCT	0.04	0	0	0	0.04
ATGCCAAAGGAGATTGCTC	0.04	0	0	0	0.04
TGCCAAAGGAGATTGCTCGG	1750.46	45.64	73.03	6.25	1875.38
TGCCAAAGGAGATTG	0	0	0	0.18	0.18
TGCCAAAGGAGATTGCTC	1.09	0.05	0	0	1.14
TGCCAAAGGAGATTGCT	0.04	0	0.86	0.18	1.08
TGCCAAAGGAGATTG	0	0	0.22	0	0.22
TGCCAAAGGAGATTGCT	13.14	0.29	0	0	13.43
TGCCAAAGGAGATTGCTCG	0.38	0	0.22	0	0.6
GCCAAAGGAGATTGCT	0.04	0	0	0	0.04
GCCAAAGGAGATTGCTCGG	4.81	0.19	1.4	0	6.4
CCAAAGGAGATTGCTCGG	0.38	0	0.22	0	0.6
CAAAGGAGATTGCTCGG	0.33	0	0.11	0	0.44
AAAGGAGATTGCTCGG	2.18	0.1	0	0	2.28
AAGGAGATTGCTCGG	0.63	0	0	0	0.63
AGGAGATTGCTCGG	0	0	0.11	0.18	0.29
CAGGGCAAAGTCTCTTCTGGCATGTAGCCACTTACAAATTACAAATTTCTAATCTGGCTGAGCAAGCTGGCCAGCCTTGCACTACTTTGTAGTGTGCTTTATGCCAAAGGAGATTGCTCGG					

mdm-miR399e

mdm-miR399e*: GGGCAAAGTCTCTTCTGGCATG

>mdm-miR399f MI0023110

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
CAGGGCAAAGTCTCTTCTGGCAT	0.08	0	0	0	0.08
AGGGCAAAGTCTCTTCTGGCATGT	0.04	0	0	0	0.04
AGGGCAAAGTCTCTTCTGGCATG	0.04	0	0	0	0.04
AGGGCAAAGTCTCTTCTGGCAT	0.08	0	0	0	0.08
GGGCAAAGTCTCTTCTGGCATG	60.32	0.19	4.42	0.18	65.11
GGGCAAAGTCTCTTCTGGCATGT	0.5	0	0.65	0	1.15
GGGCAAAGTCTCTTCTGGCA	0.21	0	0	0	0.21
GGGCAAAGTCTCTTCTGGCATGTAG	0.08	0	0	0	0.08
GGGCAAAGTCTCTTCTGGCATGTA	0.04	0	0	0	0.04
GGGCAAAGTCTCTTCTGG	0	0	0.22	0	0.22
GGGCAAAGTCTCTTCTGGC	0	0	0.11	0	0.11
GGGCAAAGTCTCTTCTGGCAT	0.92	0	0	0	0.92
GGCAAAGTCTCTTCTGGCATG	0.04	0	0	0	0.04
GGCAAAGTCTCTTCTGGCATGTAG	0.04	0	0	0	0.04
GCAAAGTCTCTTCTGGCATG	0	0	0.11	0	0.11
AAAGTCTCTTCTGGCATGTAG	0.04	0	0	0	0.04
AAAGTCTCTTCTGGCATG	0.13	0	0	0	0.13
AAAGTCTCTTCTGGCATGTAGC	0.42	0	0	0	0.42
	0.04	0	0	0	0.04
	0.25	0.1	0	0	0.35
	0.33	0.1	0	0	0.43
	2.55	0.05	0.43	0	3.03
	0.08	0	0	0	0.08
	0.04	0	0	0	0.04
	0.04	0	0	0	0.04
	1750.46	45.64	73.03	6.25	1875.38
	0	0	0	0.18	0.18
	1.09	0.05	0	0	1.14
	0.04	0	0.86	0.18	1.08
	0	0	0.22	0	0.22
	13.14	0.29	0	0	13.43
	0.38	0	0.22	0	0.6
	0.04	0	0	0	0.04
	4.81	0.19	1.4	0	6.4
	0.38	0	0.22	0	0.6
	0.33	0	0.11	0	0.44
	2.18	0.1	0	0	2.28
	0.63	0	0	0	0.63
	0	0	0.11	0.18	0.29

TTCTTAATTCTGGCTGAGCAA

TTATGCCAAAGGAGATTGCTCGG
 TATGCCAAAGGAGATTGCTCGG
 ATGCCAAAGGAGATTGCTCGG
 ATGCCAAAGGAGATTGCTCG
 ATGCCAAAGGAGATTGTC
 ATGCCAAAGGAGATTGCTC
 TGCCAAAGGAGATTGCTCGG
 TGCCAAAGGAGATTG
 TGCCAAAGGAGATTGCTC
 TGCCAAAGGAGATTGCT
 TGCCAAAGGAGATTT
 TGCCAAAGGAGATTGTC
 TGCCAAAGGAGATTGCTCG
 GCCAAAGGAGATTGTC
 GCCAAAGGAGATTGCTCGG
 CCAAAGGAGATTGCTCGG
 CAAAGGAGATTGCTCGG
 AAAGGAGATTGCTCGG
 AAGGAGATTGCTCGG
 AAGGAGATTGCTCGG

CAGGGCAAAGTCTCTTCTGGCATGTAGCCACTTACAAAATTACAAAATTCTTAATTCTGGCTGAGCAAGCTTGCCAGCCTTGCATTACTTTTGTAGTGTGCTTTATGCCAAAGGAGATTGCTCGG

mdm-miR399f

mdm-miR399f*: GGGCAAAGTCTCTTCTGGCATG

>mdm-miR399g MI0023111

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
AGACAAAGTCTCCTCTGGCATG	0.04	0	0	0	0.04
GAGCAAAGTCTCCTCTGGCAT	0.67	0	0	0	0.67
GAGCAAAGTCTCCTCTGGCATG	22.27	1.12	0.11	0	23.5
GAGCAAAGTCTCCTCTGGCATGT	0.59	0	0	0	0.59
GAGCAAAGTCTCCTCTGGCATGTA	0	0	0.11	0	0.11
GAGCAAAGTCTCCTCTGGCA	0.08	0	0	0	0.08
AGCAAAGTCTCCTCTGGCA	0.08	0	0	0	0.08
AGCAAAGTCTCCTCTGGCATG	15.78	0.05	0.43	0	16.26
AGCAAAGTCTCCTCTGGCATGT	2.34	0	0.75	0	3.09
AGCAAAGTCTCCTCTGG	0	0	0	0.37	0.37
AAAGTCTCCTCTGGCATGTAG	0.04	0	0	0	0.04
AAAGTCTCCTCTGGCATG	0.04	0	0.11	0	0.15
AAAGTCTCCTCTGGCATGTAGC	0.5	0	0	0	0.5
AAAGTCTCCTCTGGCATG	0.04	0	0	0	0.04
AGTCTCCTCTGGCATG	0.04	0	0	0	0.04
CTGGCCAGCCTTGCAATATTTT	0.04	0	0	0	0.04
TTATGCCAAAGGAGATTGCTCGG	0.25	0.1	0	0	0.35
TATGCCAAAGGAGATTGCTCGG	0.33	0.1	0	0	0.43
ATGCCAAAGGAGATTGCTCGG	2.55	0.05	0.43	0	3.03
ATGCCAAAGGAGATTGTC	0.04	0	0	0	0.04
ATGCCAAAGGAGATTGCTC	0.04	0	0	0	0.04
ATGCCAAAGGAGATTGCTCG	0.08	0	0	0	0.08
TGCCAAAGGAGATTGTC	13.14	0.29	0	0	13.43
TGCCAAAGGAGATTGCTC	1.09	0.05	0	0	1.14
TGCCAAAGGAGATTG	0	0	0	0.18	0.18
TGCCAAAGGAGATTGCTCGG	1750.46	45.64	73.03	6.25	1875.38
TGCCAAAGGAGATT	0	0	0.22	0	0.22
TGCCAAAGGAGATTGCTCG	0.38	0	0.22	0	0.6
TGCCAAAGGAGATTGCT	0.04	0	0.86	0.18	1.08
GCCAAAGGAGATTGCTCGG	4.81	0.19	1.4	0	6.4
GCCAAAGGAGATTGTC	0.04	0	0	0	0.04
CCAAAGGAGATTGCTCGG	0.38	0	0.22	0	0.6
CAAAGGAGATTGCTCGG	0.33	0	0.11	0	0.44
AAAGGAGATTGCTCGG	2.18	0.1	0	0	2.28
AAGGAGATTGCTCGG	0.63	0	0	0	0.63
AGGAGATTGCTCGG	0	0	0.11	0.18	0.29
CAGAGCAAAGTCTCCTCTGGCATGTAGCCACTTACAATTACAAATGCTTAATTTCTGGCTGAACAAGCTGGCCAGCCTTGCAATATTTTGTAGTGTGCTTTATGCCAAAGGAGATTGCTCGG	0	0	0.11	0.18	0.29

mdm-miR399g

mdm-miR399g*: GAGCAAAGTCTCCTCTGGCATG

>mdm-miR399h MI0023112

AGAGCAAAGTCTCCTCTGGCATG
GAGCAAAGTCTCCTCTGGCAT
GAGCAAAGTCTCCTCTGGCATG
GAGCAAAGTCTCCTCTGGCATGT
GAGCAAAGTCTCCTCTGGCATGTA
GAGCAAAGTCTCCTCTGGCA
AGCAAAGTCTCCTCTGGCA
AGCAAAGTCTCCTCTGGCATG
AGCAAAGTCTCCTCTGGCATGT
AGCAAAGTCTCCTCTGG
AAAGTCTCCTCTGGCATGTAG
AAAGTCTCCTCTGGCATG
AAAGTCTCCTCTGGCATGTAGC
AAAGTCTCCTCTGGCATG
AGTCTCCTCTGGCATG

CTGGCCAGCCTTGCAATATTTTT

TTATGCCAAAGGAGATTTGCTCGG
TATGCCAAAGGAGATTTGCTCGG
ATGCCAAAGGAGATTTGCTCGG
ATGCCAAAGGAGATTTGC
ATGCCAAAGGAGATTTGCTC
ATGCCAAAGGAGATTTGCTCG
TGCCAAAGGAGATTTGC
TGCCAAAGGAGATTTGCTC
TGCCAAAGGAGATTTG
TGCCAAAGGAGATTTGCTCGG
TGCCAAAGGAGATT
TGCCAAAGGAGATTTGCTCG
TGCCAAAGGAGATTTGCT
GCCAAAGGAGATTTGCTCGG
GCCAAAGGAGATTTGC
CCAAAGGAGATTTGCTCGG
CAAAGGAGATTTGCTCGG
AAAGGAGATTTGCTCGG
AAGGAGATTTGCTCGG
AGGAGATTTGCTCGG

GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
0.04	0	0	0	0.04
0.67	0	0	0	0.67
22.27	1.12	0.11	0	23.5
0.59	0	0	0	0.59
0	0	0.11	0	0.11
0.08	0	0	0	0.08
0.08	0	0	0	0.08
15.78	0.05	0.43	0	16.26
2.34	0	0.75	0	3.09
0	0	0	0.37	0.37
0.04	0	0	0	0.04
0.04	0	0.11	0	0.15
0.5	0	0	0	0.5
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0.25	0.1	0	0	0.35
0.33	0.1	0	0	0.43
2.55	0.05	0.43	0	3.03
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0.08	0	0	0	0.08
13.14	0.29	0	0	13.43
1.09	0.05	0	0	1.14
0	0	0	0.18	0.18
1750.46	45.64	73.03	6.25	1875.38
0	0	0.22	0	0.22
0.38	0	0.22	0	0.6
0.04	0	0.86	0.18	1.08
4.81	0.19	1.4	0	6.4
0.04	0	0	0	0.04
0.38	0	0.22	0	0.6
0.33	0	0.11	0	0.44
2.18	0.1	0	0	2.28
0.63	0	0	0	0.63
0	0	0.11	0.18	0.29

CAGAGCAAAGTCTCCTCTGGCATGTAGCCACTTACAATTACAAATGCTTAATTCIGGCTGAACAAGCTGGCCAGCCTTGCAATATTTTTGTAGTGTGCTTTATGCCAAAGGAGATTTGCTCGG

mdm-miR399h

mdm-miR399h*: GAGCAAAGTCTCCTCTGGCATG

>mdm-MIR399i MI0023113

	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	GSM880654_apple_flower	Total
AAATCAGTCATAGGGCTCCT	0	0	0	0	0.08
GGGCTCCTCCCTCTTGGCAGG	0.04	0.11	0	0	0.15
CCCTCTTGGCAGGCACTGGTG	0	0	0.05	0	0.05
CTTGCCAAAGGAGAGTTGCC	0.04	0	0	0	0.04
TTGCCAAAGGAGAGTTGCCCTG	2.09	0.32	0	0.18	2.59
TTGCCAAAGGAGAGTTGCC	0.21	0	0	0	0.21
TGCCAAAGGAGAGTTGCC	0.54	0.22	0	0.18	0.94
TGCCAAAGGAGAGTTGCCCTGC	0	0	0	0.18	0.18
TGCCAAAGGAGAGTTGCCCT	0.08	0.54	0	0	0.62
TGCCAAAGGAGAGTTGCCCTG	15.66	30.27	1.26	16.91	64.1
TGCCAAAGGAGAGTTG	0	0.43	0	0.18	0.61
TGCCAAAGGAGAGTTGC	0	0	0	0.18	0.18
TGCCAAAGGAGAGTTG	0.04	0.22	0	0	0.26
TGCCAAAGGAGAGTTGCC	0.63	0	0.05	0	0.68
CAAAGGAGAGTTGCCCTGCGA	0	0.11	0	0	0.11
CAAAGGAGAGTTGCCCTG	0	0	0	0.55	0.55
AAAGGAGAGTTGCCCTG	0.13	0	0	0	0.13
AAGGAGAGTTGCCCTG	0	0	0	0.18	0.18
AGGAGAGTTGCCCTG	0	0	0	0.18	0.18
TAAGCAAATCAGTCATAGGGCTCCTCCCTCTTGGCAGGCACTGGTGAATGATGCAACTACAATCACTTTTCATTGACTTGCCAAAGGAGAGTTGCCCTGCGATTGCTTTAGCTTA	0	0	0	0.37	0.37

mdm-miR399i

mdm-miR399i*: GGGCTCCTCCCTCTTGGCAGG

>mdm-miR399j MI0023114

AAATCAGTCATAGGGCTCCT
GGGCTCCTCCCTCTTGGCAGG
CCCTCTTGGCAGGCACTGGTGT
CCCTCTTGGCAGGCACTGGTG

GCAACTACAGTCACTTTCA

CCTGCCAAAGGAGAGTTGCCC
CTGCCAAAGGAGAGTTGCCC
CTGCCAAAGGAGAGTTGCCC
CTGCCAAAGGAGAGTTGCCCCTG
TGCCAAAGGAGAGTTGCCCCTG
TGCCAAAGGAGAGTTGCCC
TGCCAAAGGAGAGTTG
TGCCAAAGGAGAGTTGCCCCTG
TGCCAAAGGAGAGTT
TGCCAAAGGAGAGTTGCCCCT
TGCCAAAGGAGAGTTGCCC
TGCCAAAGGAGAGTTGCCC

CAAAGGAGAGTTGCCCTGCGA
CAAAGGAGAGTTGCCCTG
AAAGGAGAGTTGCCCTG
AAGGAGAGTTGCCCTG
AGGAGAGTTGCCCTG

TCTAATAAGCAAATCAGTCATAGGGCTCCTCCCTCTTGGCAGGCACTGGTGTATGGTGCAACTACAGTCACTTTCAATTGACCTGCCAAAGGAGAGTTGCCCTGCGGATTGCTTTGGCTTAATGA

mdm-miR399j

GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880653_apple_root	GSM880654_apple_flower	Total
0.08	0	0	0	0.08
0.04	0.11	0	0	0.15
0.04	0	0	0	0.04
0	0	0.05	0	0.05
0	0.11	0	0	0.11
0.08	0.65	0	0	0.73
0.17	0.22	0.05	0	0.44
0	0.11	0	0	0.11
0.17	0	0	0	0.17
0	0	0	0.18	0.18
0.54	0.22	0	0.18	0.94
0.04	0.22	0	0	0.26
15.66	30.27	1.26	16.91	64.1
0	0.43	0	0.18	0.61
0.08	0.54	0	0	0.62
0.63	0	0.05	0	0.68
0	0	0	0.18	0.18
0	0.11	0	0	0.11
0	0	0	0.55	0.55
0.13	0	0	0	0.13
0	0	0	0.18	0.18
0	0	0	0.37	0.37

mdm-miR399j*: GGGCTCCTCCCTCTTGGCAGG

>mdm-miR403a MI0023115

AGTTTGTGCGTGAATCGAACC
TTTGTGCGTGAATCGAACC
TTGTGCGTGAATCGAACCCT
TTGTGCGTGAATCGAACCCTT

TGTTAGATTCACGCACAAACT
GTTAGATTCACGCACAAACT
TTAGATTCACGCACAAACTCG
TTAGATTCACGCACAAACT
TTAGATTCACGCACA
TTAGATTCACGCACAAA
TTAGATTCACGCACAAA
TTAGATTCACGCACAACTC
TTAGATTCACGCACAAAC
TTAGATTCACGCACAAACTCGT
TAGATTCACGCACAAA
TAGATTCACGCACAAACTCG
TAGATTCACGCACAAACT
AGATTCACGCACAAA
AGATTCACGCACAAACT
AGATTCACGCACAAAC
AGATTCACGCACAAACTCG
GATTCACGCACAAACTCG
ATTCACGCACAAACTCG
TTCACGCACAAACTCG
TCACGCACAAACTCG

GSM880654_apple_flower	GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	Total
0.74	0	0	0	0.74
0.18	0	0	0	0.18
0	0.05	0	0	0.05
0	0	0.04	0	0.04
1.84	0.05	0	1.18	3.07
0.18	0	0	0	0.18
9.74	18.96	27.88	16.37	72.95
2.94	0.19	0.38	3.23	6.74
0.18	0	0	0	0.18
0.18	0	0.17	0	0.35
0.55	0	0	0	0.55
0.37	0.29	0.29	0	0.95
0.37	0.53	1.59	0	2.49
0	0.24	0.13	0	0.37
0	0	0	0.11	0.11
0.18	0.1	0	0.54	0.82
0	0	0	0.11	0.11
0	0	0	0.22	0.22
0.18	0	0	0	0.18
0.18	0	0	0	0.18
0	0.1	0.13	0	0.23
0	0	0.04	0	0.04
0.55	0	0	0.22	0.77
0.18	0	0	0	0.18
0.37	0	0	0	0.37

AGACGGGACACATCTCCAGTTTGTGCGTGAATCGAACCCTTTTAGCCGTCCATCTGTTTATAGATAAATCCAACGGTGTAGATTCACGCACAAACTCGTGATCAGTCTCCTCT

mdm-miR403a

mdm-miR403a*: AGTTTGTGCGTGAATCGAACC

>mdm-miR403b MI0023116

AGTTTGTGCTGAATCAAACC
AGTTTGTGCTGAATCAAAC

	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	Total
TGTTAGATTCACGCACAAACT	0.04	0.37	0	0	0.41
GTTAGATTCACGCACAAACT	0.04	0	0	0	0.04
TTAGATTCACGCACAAACTCG	0	1.84	0.05	1.18	3.07
TTAGATTCACGCACAA	0	0.18	0	0	0.18
TTAGATTCACGCACAAACT	27.88	9.74	18.96	16.37	72.95
TTAGATTCACGCACAAAC	0	0.55	0	0	0.55
TTAGATTCACGCACAAAC	0.38	2.94	0.19	3.23	6.74
TTAGATTCACGCACAAAC	1.59	0.37	0.53	0	2.49
TTAGATTCACGCACAAAC	0.17	0.18	0	0	0.35
TTAGATTCACGCACAAACTC	0.29	0.37	0.29	0	0.95
TTAGATTCACGCACA	0	0.18	0	0	0.18
TTAGATTCACGCACAAACTCGT	0.13	0	0.24	0	0.37
TAGATTCACGCACAAACTCG	0	0.18	0.1	0.54	0.82
TAGATTCACGCACAA	0	0	0	0.11	0.11
TAGATTCACGCACAAACT	0	0	0	0.11	0.11
AGATTCACGCACAAAC	0	0	0	0.22	0.22
AGATTCACGCACAAACTCG	0.13	0	0.1	0	0.23
AGATTCACGCACAAAC	0	0.18	0	0	0.18
AGATTCACGCACAAACT	0	0.18	0	0	0.18
GATTCACGCACAAACTCG	0.04	0	0	0	0.04
ATTCACGCACAAACTCG	0	0.55	0	0.22	0.77
TTACGCACAAACTCG	0	0.18	0	0	0.18
TCACGCACAAACTCG	0	0.37	0	0	0.37
GACGGGGCACATCTCCAGTTTGTGCTGAATCAAACCCCATCTCAGCTGTCCATCTGTCTGATGGCTAATCCAACGGTGTAGATTCACGCACAAACTCGTGATCTGTCTCCTC					

mdm-miR403b

mdm-miR403b*: AGTTTGTGCTGAATCAAACC

>mdm-miR408a MI0023117

	GSM80655_apple_fruit	GSM80653_apple_root	GSM80652_apple_leaf	GSM80654_apple_flower	Total
GAGTTAATAAGACAGG	0	0	0	0	0
AATAAGACAGGGAAGGAGGATAGAGCATG	0	0.05	0	0	0.05
AATAAGACAGGGAAGGATAGAGC	0	0	0.04	0	0.04
ATAAGACAGGGAAGGATAGAGCA	0.11	0	0	0	0.11
TAAGACAGGGAAGGATAGAGC	0	0.1	0	0	0.1
AGACAGGGAAGGATAGAGTA	0	0	0	0.18	0.18
AGACAGGGAAGGATAGAGC	0	0.24	0.04	0	0.28
AAGACAGGGAAGGATAGAGCATG	0	0.15	0.08	0	0.23
AGACAGGGAAGGATAGAGCATGG	0.11	0	0	0	0.11
GACAGGGAAGGATAGAGCAT	0	1.02	0	0	1.02
GACAGGGAAGGATAGAGCATG	0	17.74	2.72	0	20.46
GACAGGGAAGGATAGAGCA	0	0.05	0	0	0.05
GACAGGGAAGGATAGAGCATGGA	0	0	0.04	0	0.04
ACAGGGAAGGATAGAG	0.22	0.29	0.04	0	0.55
ACAGGGAAGGATAGAGCATG	9.16	18196.45	874.85	0	19080.46
ACAGGGAAGGATAGAGC	0	0.58	0	0	0.58
ACAGGGAAGGATAGAGCATGG	0	4.62	0.08	0	4.7
ACAGGGAAGGATAGAGCAT	0	24.3	2.09	0	26.39
ACAGGGAAGGATAGAGCA	0.11	25.32	1.21	0	26.64
ACAGGGAAGGATAGA	0	0.1	0	0	0.1
CAGGGAAGGATAGAGCATGG	3.45	911.87	34.12	0.55	949.99
CAGGGAAGGATAGAGCA	0	7	0.25	0	7.25
CAGGGAAGGATAGAGCATG	0.11	40.1	3.06	0	43.27
CAGGGAAGGATAGAGC	0	1.22	0.04	0	1.26
CAGGGAAGGATAGA	0	0.1	0.04	0	0.14
CAGGGAAGGATAGAGCAT	0	16.91	0.38	0	17.29
CAGGGAAGGATAGAGCATGGA	0	3.99	0.17	0	4.16
CAGGGAAGGATAGAGCATGGAT	0	0.1	0	0	0.1
CAGGGAAGGATAGAG	0	0.19	0	0	0.19
AGGGAAGGATAGAGCAT	0	0.1	0	0	0.1
AGGGAAGGATAGAGCATG	0	8.65	0.33	0	8.98
AGGGAAGGATAGAGCATGGAT	0	0.05	0	0	0.05
AGGGAAGGATAGAGCATGG	0	2.77	0.08	0.18	2.85
AGGGAAGGATAGAGCATGGATGG	0	0	0	0.18	0.18
AGGGAAGGATAGAGCA	0	0.34	0	0.34	0.68
AGGGAAGGATAGAG	0	0.05	0	0	0.05
AGGGAAGGATAGAGCATGGA	0	0.1	0	0	0.1
GGGAAGGATAGAGCATG	0	2.04	0.04	0	2.08
GGGAAGGATAGAGCATGG	0	0.29	0	0	0.29
GGGAAGGATAGAGCATGG	0	0.1	0	0	0.1
GGGAAGGATAGAGCAT	0	0.05	0	0	0.05
GGGAAGGATAGAGCATG	0	16.04	0.71	0	16.75
GAAGGATAGAGCATGG	0	1.22	0.04	0	1.26
GAAGGATAGAGCATG	0	4.23	0.08	0	4.31
GAAGGATAGAGCAT	0	0.05	0	0	0.05
ABAGGATAGAGCATGGATGGATTTCT	0	0.05	0	0	0.05
AAGAGGATAGAGCATGGATGGAT	0	0.68	0.17	0	0.85
AAGAGGATAGAGCATGGATGGATTT	0	0.58	0.04	0	0.62
AAGAGGATAGAGCATGG	0	0.19	0	0	0.19
AAGAGGATAGAGCATG	0	0.68	0	0	0.68
ABAGGATAGAGCATGGA	0	0.05	0	0	0.05
ABAGGATAGAGCATGGATGG	0	0.1	0	0	0.1
AAGAGGATAGAGCATGGATGGA	0	0.73	0.04	0	0.77
AGAGGATAGAGCATGGAT	0	0.05	0	0	0.05
AGAGGATAGAGCATGG	0	0.19	0	0	0.19
AGAGGATAGAGCATGGATGGG	0	3.5	0.21	0	3.71
AGAGGATAGAGCATGGATGGA	0	0.1	0	0	0.1
AGAGGATAGAGCATGGATGGAT	0	0.05	0	0.05	0.1
AGAGGATAGAGCATGGATGGATTTCT	0	0	0.04	0	0.04
GAGGATAGAGCATGGATGGAT	0	0.05	0	0	0.05
AGGATAGAGCATGGATGGATTTCT	0	0.58	0.04	0	0.62
AGGATAGAGCATGGATGGATTTCT	0	0.24	0.04	0	0.28
AGGATAGAGCATGGATGGATTTCTCA	0	0.05	0	0	0.05
AGGATAGAGCATGGATGGATTTCTCA	0	0.1	0	0	0.1
GGTAGAGCATGGATGGATTTCTCA	0	0.1	0	0	0.1
GGTAGAGCATGGATGGATTTCTCA	0	0.29	0.04	0	0.33
GGTAGAGCATGGATGGATTTCTCA	0	0.1	0	0	0.1
GGTAGAGCATGGATGGATTTCTCA	0	0.19	0	0	0.19
GGTAGAGCATGGATGGATTTCTCA	0	0.05	0	0	0.05
GGTAGAGCATGGATGGATTTCTCT	0	0.05	0	0	0.05
TAGAGCATGGATGGATTTCT	0	0.1	0	0	0.1
TAGAGCATGGATGGATTTCTCAAG	0	0.44	0.04	0	0.48
TAGAGCATGGATGGATTTCTCAAGA	0	1.07	0.08	0	1.15
TAGAGCATGGATGGATTTCTCT	0	2.72	0.08	0	2.8
TAGAGCATGGATGGATTTCTCA	0	0.1	0	0	0.1
TAGAGCATGGATGGATTTCTCA	0	0.63	0.08	0	0.71
AGAGCATGGATGGATTTCTCAAGAG	0	0.15	0	0	0.15
AGAGCATGGATGGATTTCTCAAGA	0	0	0.13	0	0.13
AGAGCATGGATGGATTTCTCAA	0	0.05	0	0	0.05
GAGCATGGATGGATTTCTCAAGAG	0	0.34	0	0.34	0.68
GAGCATGGATGGATTTCTCAAGA	0	0.34	0.08	0	0.42
GAGCATGGATGGATTTCTCAAGAGC	0	0.49	0	0	0.49
GAGCATGGATGGATTTCTCAAG	0	0.15	0.04	0	0.19
GATGGATTTCTCAAGAGCAA	0	0.05	0	0	0.05
GATGGATTTCTCAAGAGCAA	0	0.05	0	0	0.05
AGCAAAATAGAGCTCTTGTGACT	0	0.05	0	0	0.05
AGCTCTTGTGACTCTACTCATGCA	0.11	0	0	0	0.11
TTGTGACTCTACTCATGCACTGCC	0	0.19	0	0	0.19
TTGTGACTCTACTCATGCACTG	0	0.78	0.08	0	0.86
TTGTGACTCTACTCATGCACTG	0	0.05	0	0	0.05
TGTGACTCTACTCATGCACTG	0	0.83	0.04	0	0.87
TGACTCTACTCATGCACTGCC	0	0.05	0.08	0	0.13
TGACTCTACTCATGCACTG	0	0.1	0	0	0.14
TCTACTCATGCACTGCCTCTTC	0	0.05	0	0	0.05
TCTACTCATGCACTGCCTCTTC	0	0.05	0	0	0.05
CATGCACTGCCTCTTCCCTGGC	0	0.19	0	0	0.19
ATGCACTGCCTCTTCCCTGG	0	0.19	0.04	0	0.23
ATGCACTGCCTCTTCCCTGGC	0	242.1	4.27	0	246.37
ATGCACTGCCTCTTCCCTGGCT	0	0.34	0	0	0.34
ATGCACTGCCTCTTCCCTGGCT	0	1.36	0	0	1.36
ATGCACTGCCTCTTCCCTGG	0	0.05	0	0	0.05
TGCACTGCCTCTTCCCTGGC	0	7.87	0.25	0	8.12
TGCACTGCCTCTTCCCTGGCTTT	0.11	0.1	0.04	0	0.25
TGCACTGCCTCTTCCCTGGCT	0.43	27.41	1.05	0	28.89
TGCACTGCCTCTTCCCTGGCTT	0	10.6	0.63	0	11.23
TGCACTGCCTCTTCCCT	0	0.05	0	0	0.05
TGCACTGCCTCTTCCCTGG	0	0.15	0.04	0	0.19
GCACTGCCTCTTCCCTGGCT	0.11	0.15	0	0	0.26
GCACTGCCTCTTCCCTGGCTT	0	0.05	0	0	0.05
ACTGCCTCTTCCCTGGC	0	0.19	0	0	0.19
ACTGCCTCTTCCCTGGCTT	0	0.05	0	0	0.05
CTGCCTCTTCCCTGGCTT	0	0.05	0	0	0.05
TGCTCTTCCCTGGC	0	0.05	0	0	0.05
CCTGGCTTTGCCCTCCCTC	0.22	0	0	0	0.22

mdm-miR408a

mdm-miR408a*: CAGGGAAGGATAGAGCATGG

>mdm-miR408b MI0023135

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	Total
ACAGGGAAGAGGTAGAGCA	25.32	1.21	0.11	0	26.64
ACAGGGAAGAGGTAGAGCAT	24.3	2.09	0	0	26.39
ACAGGGAAGAGGTAGAGCATGG	4.62	0.08	0	0	4.7
ACAGGGAAGAGGTAGAG	0.29	0.04	0.22	0	0.55
ACAGGGAAGAGGTAGAGCATG	18196.45	874.85	9.16	0	19080.46
ACAGGGAAGAGGTAGAGC	0.58	0	0	0	0.58
ACAGGGAAGAGGTAGA	0.1	0	0	0	0.1
CAGGGAAGAGGTAGA	0.1	0.04	0	0	0.14
CAGGGAAGAGGTAGAGCATGG	911.87	34.12	3.45	0.55	949.99
CAGGGAAGAGGTAGAGCATGGAT	0.1	0	0	0	0.1
CAGGGAAGAGGTAGAGCATG	40.1	3.06	0.11	0	43.27
CAGGGAAGAGGTAGAGCATGGGA	3.99	0.17	0	0	4.16
CAGGGAAGAGGTAGAGCAT	16.91	0.38	0	0	17.29
CAGGGAAGAGGTAGAGC	1.22	0.04	0	0	1.26
CAGGGAAGAGGTAGAGCA	7	0.25	0	0	7.25
CAGGGAAGAGGTAGAG	0.19	0	0	0	0.19
AGGGAAGAGGTAGAGCATGGGA	0.1	0	0	0	0.1
AGGGAAGAGGTAGAGCAT	0.1	0	0	0	0.1
AGGGAAGAGGTAGAGCATG	8.65	0.33	0	0	8.98
AGGGAAGAGGTAGAG	0.05	0	0	0	0.05
AGGGAAGAGGTAGAGCATGG	2.77	0.08	0	0	2.85
AGGGAAGAGGTAGAGCATGGATGG	0	0	0	0.18	0.18
AGGGAAGAGGTAGAGCATGGAT	0.05	0	0	0	0.05
AGGGAAGAGGTAGAGCA	0.34	0	0	0	0.34
AGGGAAGAGGTAGAGC	0.1	0	0	0	0.1
GGGAAGAGGTAGAGCATG	2.04	0.04	0	0	2.08
GGGAAGAGGTAGAGCATGG	0.29	0	0	0	0.29
GGGAAGAGGTAGAGCATGG	0.1	0	0	0	0.1
GGGAAGAGGTAGAGCATG	16.04	0.71	0	0	16.75
GGGAAGAGGTAGAGCAT	0.05	0	0	0	0.05
GAAGAGGTAGAGCAT	0.05	0	0	0	0.05
GAAGAGGTAGAGCATGG	1.22	0.04	0	0	1.26
GAAGAGGTAGAGCATG	4.23	0.08	0	0	4.31
AAGAGGTAGAGCATGGATGGAGTT	0.58	0.04	0	0	0.62
AAGAGGTAGAGCATGGATGGGA	0.73	0.04	0	0	0.77
AAGAGGTAGAGCATGG	0.19	0	0	0	0.19
AAGAGGTAGAGCATG	0.68	0	0	0	0.68
AAGAGGTAGAGCATGGATGG	0.1	0	0	0	0.1
AAGAGGTAGAGCATGGATGGAT	0.68	0.17	0	0	0.85
AAGAGGTAGAGCATGGATGGATTTCT	0.05	0	0	0	0.05
AAGAGGTAGAGCATGGGA	0.05	0	0	0	0.05
AGAGGTAGAGCATGGATGGAGT	0.05	0	0	0	0.05
AGAGGTAGAGCATGG	0.19	0	0	0	0.19
AGAGGTAGAGCATGGATGGAG	3.5	0.21	0	0	3.71
AGAGGTAGAGCATGGATGGGA	0.1	0	0	0	0.1
AGAGGTAGAGCATGGAT	0.05	0	0	0	0.05
AGAGGTAGAGCATGGATGGAGTTCT	0.05	0.04	0	0	0.04
GAGGTAGAGCATGGATGGAGT	0.05	0	0	0	0.05
AGGTAGAGCATGGATGGAGTTCT	0.1	0	0	0	0.1
AGGTAGAGCATGGATGGAGTTCTCT	0.24	0.04	0	0	0.28
AGGTAGAGCATGGATGGAGTTCTCTC	0.58	0.04	0	0	0.62
AGGTAGAGCATGGATGGAGTTCTCA	0.05	0	0	0	0.05
GGTAGAGCATGGATGGAGTTCTCAA	0.1	0	0	0	0.1
GGTAGAGCATGGATGGAGTTCTCA	0.1	0	0	0	0.1
GGTAGAGCATGGATGGAGT	0.05	0	0	0	0.05
GGTAGAGCATGGATGGAGTTCTC	0.05	0	0	0	0.05
GGTAGAGCATGGATGGAGTTCTCAAG	0.29	0.04	0	0	0.33
GGTAGAGCATGGATGGAGTT	0.19	0	0	0	0.19
TAGAGCATGGATGGAGTTCTC	2.72	0.08	0	0	2.8
TAGAGCATGGATGGAGTTCTCA	0.63	0.08	0	0	0.71
TAGAGCATGGATGGAGTTCTCAAGA	1.07	0.08	0	0	1.15
TAGAGCATGGATGGAGTTCTCAAG	0.44	0.04	0	0	0.48
TAGAGCATGGATGGAGTTCT	0.1	0	0	0	0.1
TAGAGCATGGATGGAGTTCTCA	0.1	0	0	0	0.1
AGAGCATGGATGGAGTTCTCAAGA	0	0.13	0	0	0.13
AGAGCATGGATGGAGTTCTCAA	0.05	0	0	0	0.05
AGAGCATGGATGGAGTTCTCAAGAG	0.15	0	0	0	0.15
GAGCATGGATGGAGTTCTCAAGAGC	0.49	0	0	0	0.49
GAGCATGGATGGAGTTCTCAAG	0.15	0.04	0	0	0.19
GAGCATGGATGGAGTTCTCAAGA	0.34	0.08	0	0	0.42
GAGCATGGATGGAGTTCTCAAGAG	0.34	0	0	0	0.34
GATGGAGTTCTCAAGAGCAA	0.05	0	0	0	0.05
GATGGAGTTCTCAAGAGCAAAA	0.05	0	0	0	0.05
AGCAAAATAGAGCTCTTGTGACT	0.05	0	0	0	0.05
AGCTCTTGTGACTCTACTCATGCA	0	0	0.11	0	0.11
TTGTGACTCTACTCATGCACTGC	0.05	0	0	0	0.05
TTGTGACTCTACTCATGCACTG	0.78	0.08	0	0	0.86
TTGTGACTCTACTCATGCACTGCC	0.19	0	0	0	0.19
TGTGACTCTACTCATGCACTG	0.83	0.04	0	0	0.87
TGACTCTACTCATGCACTGCC	0.05	0.08	0	0	0.13
TGACTCTACTCATGCACTGC	0.1	0.04	0	0	0.14
TCTACTCATGCACTGCCTCTTCC	0.05	0	0	0	0.05
TCTACTCATGCACTGCCTCTTC	0.05	0	0	0	0.05
ATGCACTGCCTCTTCCCTG	0.05	0	0	0	0.05
ATGCACTGCCTCTTCCCTGG	0.19	0.04	0	0	0.23
TGCACTGCCTCTTCCCTGG	0.15	0.04	0	0	0.19
TGCACTGCCTCTTCCCT	0.05	0	0	0	0.05
ACAGGGAAGAGGTAGAGCATGGATGGAGTTCTCAAGAGCAAAAATAGAGCTCTTGTGACTCTACTCATGCACTGCCTCTTCCCTGG					

mdm-miR408b

mdm-miR408b*: TGCACTGCCTCTTCCCTGG

>mdm-miR408d MI0023137

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	Total
ACAGGGAAGAGGTAGAGCA	25.32	1.21	0.11	0	26.64
ACAGGGAAGAGGTAGAGCAT	24.3	2.09	0	0	26.39
ACAGGGAAGAGGTAGAGCATGG	4.62	0.08	0	0	4.7
ACAGGGAAGAGGTAGAG	0.29	0.04	0.22	0	0.55
ACAGGGAAGAGGTAGAGCATG	18196.45	874.85	9.16	0	19080.46
ACAGGGAAGAGGTAGAGC	0.58	0	0	0	0.58
ACAGGGAAGAGGTAGA	0.1	0	0	0	0.1
CAGGGAAGAGGTAGA	0.1	0.04	0	0	0.14
CAGGGAAGAGGTAGAGCATGG	911.87	34.12	3.45	0.55	949.99
CAGGGAAGAGGTAGAGCATGGAT	0.1	0	0	0	0.1
CAGGGAAGAGGTAGAGCATG	40.1	3.06	0.11	0	43.27
CAGGGAAGAGGTAGAGCATGGA	3.99	0.17	0	0	4.16
CAGGGAAGAGGTAGAGCAT	16.91	0.38	0	0	17.29
CAGGGAAGAGGTAGAGC	1.22	0.04	0	0	1.26
CAGGGAAGAGGTAGAGCA	7	0.25	0	0	7.25
CAGGGAAGAGGTAGAG	0.19	0	0	0	0.19
AGGGAAGAGGTAGAGCATGGA	0.1	0	0	0	0.1
AGGGAAGAGGTAGAGCAT	0.1	0	0	0	0.1
AGGGAAGAGGTAGAGCATG	8.65	0.33	0	0	8.98
AGGGAAGAGGTAGAG	0.05	0	0	0	0.05
AGGGAAGAGGTAGAGCATGG	2.77	0.08	0	0	2.85
AGGGAAGAGGTAGAGCATGGATGG	0	0	0	0.18	0.18
AGGGAAGAGGTAGAGCATGGAT	0.05	0	0	0	0.05
AGGGAAGAGGTAGAGCA	0.34	0	0	0	0.34
AGGGAAGAGGTAGAGC	0.1	0	0	0	0.1
GGGAAGAGGTAGAGCATG	2.04	0.04	0	0	2.08
GGGAAGAGGTAGAGCATGG	0.29	0	0	0	0.29
GGGAAGAGGTAGAGCATGG	0.1	0	0	0	0.1
GGGAAGAGGTAGAGCATG	16.04	0.71	0	0	16.75
GGGAAGGTAGAGCATG	0.05	0	0	0	0.05
GAAGAGGTAGAGCAT	0.05	0	0	0	0.05
GAAGAGGTAGAGCATGG	1.22	0.04	0	0	1.26
GAAGAGGTAGAGCATG	4.23	0.08	0	0	4.31
AAGAGGTAGAGCATGGATGGAGTT	0.58	0.04	0	0	0.62
AAGAGGTAGAGCATGGATGGGA	0.73	0.04	0	0	0.77
AAGAGGTAGAGCATGG	0.19	0	0	0	0.19
AAGAGGTAGAGCATG	0.68	0	0	0	0.68
AAGAGGTAGAGCATGGATGG	0.1	0	0	0	0.1
AAGAGGTAGAGCATGGATGGAGT	0.68	0.17	0	0	0.85
AAGAGGTAGAGCATGGATGGAGTTCT	0.05	0	0	0	0.05
AAGAGGTAGAGCATGGGA	0.05	0	0	0	0.05
AGAGGTAGAGCATGGATGGAGT	0.05	0	0	0	0.05
AGAGGTAGAGCATGG	0.19	0	0	0	0.19
AGAGGTAGAGCATGGATGGAG	3.5	0.21	0	0	3.71
AGAGGTAGAGCATGGATGGA	0.1	0	0	0	0.1
AGAGGTAGAGCATGGAT	0.05	0	0	0	0.05
AGAGGTAGAGCATGGATGGAGTTTC	0	0.04	0	0	0.04
GGGTAGAGCATGGATGGAGT	0.05	0	0	0	0.05
AGGTAGAGCATGGATGGAGTTTC	0.1	0	0	0	0.1
AGGTAGAGCATGGATGGAGTTCT	0.24	0.04	0	0	0.28
AGGTAGAGCATGGATGGAGTTCTC	0.58	0.04	0	0	0.62
AGGTAGAGCATGGATGGAGTTCTCA	0.05	0	0	0	0.05
GGTAGAGCATGGATGGAGTTCTCAA	0.1	0	0	0	0.1
GGTAGAGCATGGATGGAGTTCTCA	0.1	0	0	0	0.1
GGTAGAGCATGGATGGAGT	0.05	0	0	0	0.05
GGTAGAGCATGGATGGAGTTCTC	0.05	0	0	0	0.05
GGTAGAGCATGGATGGAGTTCT	0.29	0.04	0	0	0.33
GGTAGAGCATGGATGGAGTT	0.19	0	0	0	0.19
TAGAGCATGGATGGAGTTCTC	2.72	0.08	0	0	2.8
TAGAGCATGGATGGAGTTCTCA	0.63	0.08	0	0	0.71
TAGAGCATGGATGGAGTTCTCAAGA	1.07	0.08	0	0	1.15
TAGAGCATGGATGGAGTTCTCAAG	0.44	0.04	0	0	0.48
TAGAGCATGGATGGAGTTCT	0.1	0	0	0	0.1
TAGAGCATGGATGGAGTTCTC	0.1	0	0	0	0.1
AGAGCATGGATGGAGTTCTCAAGA	0	0.13	0	0	0.13
AGAGCATGGATGGAGTTCTCAA	0.05	0	0	0	0.05
AGAGCATGGATGGAGTTCTCAAGAG	0.15	0	0	0	0.15
GAGCATGGATGGAGTTCTCAAGAGC	0.49	0	0	0	0.49
GAGCATGGATGGAGTTCTCAAG	0.15	0.04	0	0	0.19
GAGCATGGATGGAGTTCTCAAGA	0.34	0.08	0	0	0.42
GAGCATGGATGGAGTTCTCAAGAG	0.34	0	0	0	0.34
GATGGAGTTCTCAAGAGCAA	0.05	0	0	0	0.05
GATGGAGTTCTCAAGAGCAAAA	0.05	0	0	0	0.05
AGCAAAATAGAGCTCTTGTGACT	0.05	0	0	0	0.05
AGCTCTTGTGACTCTACTCATGCA	0	0	0.11	0	0.11
TTGTGACTCTACTCATGCACTGC	0.05	0	0	0	0.05
TTGTGACTCTACTCATGCACTG	0.78	0.08	0	0	0.86
TTGTGACTCTACTCATGCACTGCC	0.19	0	0	0	0.19
TGTGACTCTACTCATGCACTG	0.83	0.04	0	0	0.87
TGACTCTACTCATGCACTGCC	0.05	0.08	0	0	0.13
TGACTCTACTCATGCACTGC	0.1	0.04	0	0	0.14
TCTACTCATGCACTGCCCTTTCC	0.05	0	0	0	0.05
TCTACTCATGCACTGCCCTTTTC	0.05	0	0	0	0.05
ATGCACTGCCCTTTCCCTG	0.05	0	0	0	0.05
ATGCACTGCCCTTTCCCTGG	0.19	0.04	0	0	0.23
TGCACTGCCCTTTCCCTGG	0.15	0.04	0	0	0.19
TGCACTGCCCTTTCCCT	0.05	0	0	0	0.05

mdm-miR408d

mdm-miR408d*: TGCACTGCCCTTTCCCTGG

>mdm-miR447 MI0023124

	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
CACTCTCCCTCAAGGGCTTCGA	0.55	0.05	0.22	0	0.82
CACTCTCCCTCAAGGG	0.18	0	0	0	0.18
CACTCTCCCTCAAGGGCTTCGAC	0	0.05	0	0	0.05
ACTCTCCCTCAAGGGCTTCGAC	22.24	1.56	17.99	0	41.79
ACTCTCCCTCAAGGGCTTCGA	1.84	0.05	0.54	0	2.43
ACTCTCCCTCAAGGGCTT	0.37	0	0	0	0.37
ACTCTCCCTCAAGGGCTTC	1.84	0	0.11	0	1.95
TCTCCCTCAAGGGCTTCGA	0.18	0	0	0	0.18
AAGGGCTTCGACCAATGTCAGACA	0	0.1	0.32	0.59	1.01
AGCTCGAAGACTTGGGGAGAGTGA	0	0	0.11	0	0.11
TCGAAGACTTGGGGAGAGTGA	0	0.1	0	0	0.1
CGAAGACTTGGGGAGAGTGA	0	1.26	0	0	1.26
CGAAGACTTGGGGAGAGTGA	3.31	49.53	3.55	0.59	56.98
CGAAGACTTGGGGAGAG	0.18	0	0	0	0.18
CGAAGACTTGGGGAGAGTGC	0	0.58	0	0	0.58
CGAAGACTTGGGGAGAGT	0	0.19	0	0	0.19
GAAGACTTGGGGAGAGTGA	0	0.73	0.22	0	0.95
GAAGACTTGGGGAGAGTGA	0	0.39	0	0	0.39
GAAGACTTGGGGAGAGTGAATAAAA	0.18	0	0	0	0.18
CAAGGCATTTTGTGCTCACTCTCCCTCAAGGGCTTCGACCAATGTCAGACATGRCGAGCTCGAAGACTTGGGGAGAGTGAATAAAAAGTGTCTTG					

mdm-miR447

mdm-miR447*: CGAAGACTTGGGGAGAGTGA

>mdm-miR482b MI0023126

	GSM880654_apple_flower	GSM880655_apple_fruit	GSM880653_apple_root	GSM880652_apple_leaf	Total
AAGTTGTTGGAATGGAAGGTT	0.18	0.65	0.05	0.84	1.72
AGTTGTTGGAATGGAAGGTTAGGA	0	0	0.04	0.04	0.04
AGTTGTTGGAATGGAAGGTT	0	0.11	0	0.04	0.15
AGTTGTTGGAATGGAAGGTTA	0	0	0.05	0.8	0.85
AGTTGTTGGAATGGAAGGTTAG	0	0	0	0.04	0.04
GTTGTTGGAATGGAAG	0	0.11	0	0	0.11
GTTGTTGGAATGGAAGGTT	0	0	0	0.04	0.04
TTGTTGGAATGGAAGGTTAGGAAAGAA	0	0	0	0.04	0.04
TGTTGGAATGGAAGGTTAGGAA	0	0	0	0.04	0.04
TGTTGGAATGGAAGGTTAGGA	0	0	0	0.13	0.13
TGTTGGAATGGAAGGTT	0	0.11	0	0	0.11
TGTTGGAATGGAAGGTTAGGAAAG	0	0	0	0.04	0.04
TGTTGGAATGGAAGGTTAGGAAAGA	0	0	0	0.04	0.04
GTTGGAATGGAAGGTTAGGAA	0	0	0.05	0.04	0.09
TTGGAATGGAAGGTTAGGAAA	0	0	0.19	0	0.19
TTGGAATGGAAGGTTAGGAAAGA	0	0	0.05	0	0.05
TTGGAATGGAAGGTTAGGAAAG	0	0	0.05	0	0.05
TGGAATGGAAGGTTAGGAAAG	0	0	0.05	0.33	0.38
TGGAATGGAAGGTTAGGAAAGAA	0	0.22	0	0	0.22
OGAATGGAAGGTTAGGAAAGA	0	0	0	0.21	0.21
GAATGGAAGGTTAGGAAAGAAG	0	0	0	0.04	0.04
GAATGGAAGGTTAGGAAAGA	0	0	0.15	0.33	0.48
GAATGGAAGGTTAGGAAAGAA	0	0.11	5.05	17.12	22.28
AATGGAAGGTTAGGAAA	0	0.11	0.05	0.25	0.41
AATGGAAGGTTAGGAAAG	1.29	0.11	0.24	0.33	1.97
AATGGAAGGTTAGGA	1.29	0.22	0	0.04	1.55
AATGGAAGGTTAGGAAAGAAGAAAC	0	0	0.05	0.13	0.18
AATGGAAGGTTAGGAAAGAAGA	0	0	0.83	3.39	4.22
AATGGAAGGTTAGGAAAGA	0.74	0.32	3.69	5.94	10.69
AATGGAAGGTTAGGAAAGAG	106.96	35.76	253.86	819.35	1215.93
AATGGAAGGTTAGGAAAGAAGAA	0.18	0	0.24	1.05	1.47
AATGGAAGGTTAGGAAAGAA	0.92	1.08	17.79	31.31	51.1
AATGGAAGGTTAGGAAAGAAGA	10.48	2.91	28.48	155.17	197.04
AATGGAAGGTTAGGAA	2.76	2.69	0	0.04	5.49
AATGGAAGGTTAGGAAAGAAGAAACT	0	0	0	0.08	0.08
ATGGAAGGTTAGGAAAGAG	0.37	0.11	0.44	1.67	2.59
ATGGAAGGTTAGGAAAGAAGAA	0.37	0.11	0	0	0.48
ATGGAAGGTTAGGAAAGAAGAAAC	0	0	0	0.04	0.04
ATGGAAGGTTAGGAAAGA	0	0	0.1	0.04	0.14
ATGGAAGGTTAGGAAAGAAGA	0.18	0.54	0.73	5.48	6.93
ATGGAAGGTTAGGAAAGAA	0	0	0.1	0.08	0.18
TGGAAGGTTAGGAAAGAG	0.74	0.32	0.68	0.5	2.24
TGGAAGGTTAGGAAAGAA	0	0	0.05	0.04	0.09
TGGAAGGTTAGGAAAGAAGA	0	0	0	0.21	0.21
TGGAAGGTTAGGAAAG	0.37	0.11	0	0	0.48
TGGAAGGTTAGGAAAGAAGAA	0	0	0	0.08	0.08
GGAAAGGTTAGGAAAGAG	0	0	0.05	0.13	0.18
GAAGGTTAGGAAAGAG	0.18	0.11	0.1	0.42	0.81
GAAGGTTAGGAAAGAAGA	0.18	0	0.1	0.04	0.22
GAAGGTTAGGAAAGAA	0	0.43	0	0	0.43
AAGGTTAGGAAAGAG	0	0	0.29	0.17	0.46
AGGTTAGGAAAGAG	0	0.11	0	0.04	0.15
AGAACTCTCTTGTATGTTCC	0	0.32	0	0	0.32
AAACTCTCTTGTATGTTCCA	0.18	0	0	0	0.18
TTCTCTTGTATGTTCCAATT	0	0.54	0	0	0.54
TTGTATGTTCCAATTCAAGA	0	0	0	0.04	0.04
TGTATGTTCCAATTCAAGAG	0	0.11	0	0	0.11
TTCCAATTCAAGAGATAAAAT	0	0.32	0	0	0.32
AGATAAAATTTCTTCTATC	0	0.22	0	0	0.22
ATAAAATTTCTTCTATCCC	0	0.22	0.1	0.08	0.4
TAAAAATTTCTTCTATCCCT	0	0	0.05	0.04	0.09
TAAAAATTTCTTCTATCCCTCCATTCC	0.37	0	0	0	0.37
AATTTCTTCTATCCCTCCATTCC	0	0.11	0	0	0.11
AATTTCTTCTATCCCTCCCTC	0	0	0.05	0	0.05
ATTTCTTCTATCCCTCCATTCC	0.37	0.11	0	0	0.48
TTCTTCTATCCCTCCAT	0.18	0.11	0	0	0.29
TTCTTCTATCCCTCCATTCC	1.47	0.22	0	0	1.69
TTCTTCTATCCCTCCATTCC	0	0.22	0	0	0.22
TTCTTCTATCCCTCCATT	3.31	0.54	0	0	3.85
TTCTTCTATCCCTCCATTCC	348.81	351.79	9.48	3.73	713.81
TTCTTCTATCCCTCCAT	0.92	1.4	0.05	0	2.37
TTCTTCTATCCCTCC	1.29	0.75	0.05	0	2.09
TTCTTCTATCCCTCCATTCC	0	0	0.19	0.04	0.23
TTCTTCTATCCCTCCCA	2.02	0.86	0	0	2.88
TTCTTCTATCCCTCCATTCC	9.74	7.54	0.05	0.04	17.37
TTCTTCTATCCCTCC	0.18	0	0	0	0.18
TTCTTCTATCCCTCCAT	0	0.11	0	0	0.11
TTCTTCTATCCCTCCATTCC	3.31	1.94	0	0.08	5.33
TTCTTCTATCCCTCCATTCC	1.1	0.11	0	0	1.21
TTCTTCTATCCCTCCATTCC	7.72	12.49	0.05	0	20.26
TTCTTCTATCCCTCCCA	0	0.11	0	0	0.11
TTCTTCTATCCCTCCATT	0	0.11	0	0	0.11
TTCTTCTATCCCTCCATTCC	0	0.11	0.05	0	0.16
TTCTTCTATCCCTCCATTCC	0	0.86	0.05	0	0.91
TTCTTCTATCCCTCCCA	0.18	0	0	0	0.18
TTCTTCTATCCCTCCATTCC	1.1	2.91	0.15	0.04	4.2
TTCTTCTATCCCTCCCA	0.18	0	0	0	0.18
TTCTTCTATCCCTCCATTCC	0	0.86	0	0	0.86
TTCTTCTATCCCTCCATTCC	0.18	0	0	0	0.18
TTCTTCTATCCCTCCATTCC	1.47	2.15	0	0	3.62
TTCTTCTATCCCTCCAT	0	0.11	0	0	0.11
TTCTTCTATCCCTCCATT	0.18	0	0	0	0.18
TTCTTCTATCCCTCCATTCC	0.37	0.54	0	0	0.91
TTCTTCTATCCCTCCATTCC	0	0.11	0	0	0.11
TTCTTCTATCCCTCCATTCC	0.37	0.65	0	0	1.02
TATCCCTCCATTCC	0	0.22	0	0	0.22

AGGAAGTTGTTGGAATGGAAGGTTAGGAAAGAAGAAACTTCTCTTGTATGTTCCAATTCAAGAGATAAAATTTCTTCTATCCCTCCATTCCATTCT

mdm-miR482b

mdm-miR482b*: AATGGAAGGTTAGGAAAGAAG

>mdm-miR482c MI0023127

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
AAGGCTTTGAGGAGGTTTATG	0.08	0	0.75	0	0.83
AAGGCTTTGAGGAGGTTTATGG	1.13	0.29	4.74	1.65	7.81
GGCTTTGAGGAGGTTTA	0	0	0.22	0.37	0.59
GGCTTTGAGGAGGTTT	0	0	0.11	0	0.11
TTATGGAGTGGAAAGGTTAGGAA	0.04	0.05	0	0	0.09
TATGGAGTGGAAAGGTTAGGAAA	0.17	0.15	0	0	0.32
TATGGAGTGGAAAGGTTAGGAA	0.21	0.29	0.11	0	0.61
TATGGAGTGGAAAGGTTAGGAAAAG	0.75	0.53	0	0	1.28
TATGGAGTGGAAAGGTTAGGAAAAGA	0	0.05	0	0	0.05
TATGGAGTGGAAAGGTTAGGAAA	0.5	0.83	0	0	1.33
ATGGAGTGGAAAGGTTAGGAAAAGA	0.08	0	0	0	0.08
ATGGAGTGGAAAGGTTAGGAAA	0.08	0	0	0	0.08
ATGGAGTGGAAAGGTTAGGAAAAGAA	0.13	0	0	0	0.13
ATGGAGTGGAAAGGTTAGGAAAAG	0.25	0	0	0	0.25
TGGAGTGGAAAGGTTAGGAAAAGA	1.21	0.49	0	0	1.7
TGGAGTGGAAAGGTTAGGAAAAG	0.04	0.1	0	0	0.14
TGGAGTGGAAAGGTTAGGAAAAGAG	0.13	0.1	0	0	0.23
TGGAGTGGAAAGGTTAGGAAAAGAA	0	0.05	0	0	0.05
TGGAGTGGAAAGGTTAGGAAA	0.04	0	0	0	0.04
TGGAGTGGAAAGGTTAGGAAA	0.04	0	0	0	0.04
GGAGTGGAAAGGTTAGGAAAAGAAGT	0.04	0	0	0	0.04
GGAGTGGAAAGGTTAGGAAAAGA	0.08	0	0	0	0.08
GAGTGGAAAGGTTAGGAAAAG	0.04	0	0	0	0.04
GAGTGGAAAGGTTAGGAAAAGAA	7.83	9.72	0.11	0	17.66
GAGTGGAAAGGTTAGGAAAAGAAGT	0.04	0.1	0	0	0.14
GAGTGGAAAGGTTAGGAAAAGAG	0.5	0.58	0	0	1.08
GAGTGGAAAGGTTAGGAAAAGA	1.13	0.53	0	0	1.66
GAGTGGAAAGGTTAGGAAA	0.04	0	0	0	0.04
AGTGGAAAGGTTAGGAAAAG	6.95	3.79	0	0.18	10.92
AGTGGAAAGGTTAGGAAAAGAG	1123.25	545.69	16.26	14.52	1699.72
AGTGGAAAGGTTAGGAAA	0	0.19	0	0	0.19
AGTGGAAAGGTTAGGAAA	0.08	0.05	0	0.18	0.31
AGTGGAAAGGTTAGGAAAAGAAGT	9.38	2.92	0	0.18	12.48
AGTGGAAAGGTTAGGAAAAGAA	11.64	7.14	0	0	18.78
AGTGGAAAGGTTAGGAAAAGAAGTA	0.59	0.29	0	0	0.88
AGTGGAAAGGTTAGGAAAAG	0.33	0.05	0.11	0.37	0.86
AGTGGAAAGGTTAGGA	0	0	0.11	0	0.11
AGTGGAAAGGTTAGGAAAAGAAGTAA	0.17	0	0	0	0.17
AGTGGAAAGGTTAGGAAAAGAAGTAACT	0.17	0.05	0	0	0.22
AGTGGAAAGGTTAGGAAAAGAAGTAACT	0.04	0	0	0.04	0.04
GTGGAAGGTTAGGAAAAGAAGTAA	0	0.05	0	0	0.05
GTGGAAGGTTAGGAAAAGAAGT	0.59	0.29	0	0.37	1.25
GTGGAAGGTTAGGAAAAGAAG	4.19	4.23	0	0.37	8.79
GTGGAAGGTTAGGAAAAGAAGTAA	0	0.05	0	0	0.05
GTGGAAGGTTAGGAAAAGAAGTAACT	0.04	0.68	0	0	0.72
GTGGAAGGTTAGGAAAAGAAGTAACT	0.04	0.24	0	0	0.24
TGGAAAGGTTAGGAAAAGAA	0.04	0.05	0	0	0.09
TGGAAAGGTTAGGAAAAG	0	0	0.11	0.37	0.48
TGGAAAGGTTAGGAAAAGAAG	0.5	0.68	0.32	0.74	2.24
GGAAAGGTTAGGAAAAGAAG	0.08	0.05	0	0	0.13
GAAGGTTAGGAAAAGAAG	0.42	0.1	0.11	0.18	0.81
GAAGGTTAGGAAAAGAAG	0	0	0.43	0.43	0.86
AAGGTTAGGAAAAGAAG	0.17	0.29	0	0	0.46
AGGTTAGGAAAAGAAG	0.04	0	0.11	0	0.15
	0.04	0	0	0	0.04
TCTCAAATCTGGAGATCGAA	0	0	0.11	0	0.11
CAAATCTGGAGATCG	0	0	0.43	0.18	0.61
ATCGAATTTCTTCTAACC	0	0	0	0.18	0.18
TCCAAATTTCTTCTAACCCT	0	0	0	0.18	0.18
GAATTTCTTCTAACCCTCCCAAT	0	0	0	0.18	0.18
TTTCTTCTAACCCTCCCAATCC	0	0.05	0	0	0.05
TTTCTTCTAACCCTCCCAATCC	0	0	0.11	0	0.11
TTTCTTCTAACCCTCCCAATCC	0.04	0	0	0.55	0.59
TCTTCTAACCCTCCCAATCC	0	0	0.54	0.92	1.46
TCTTCTAACCCTCCCAATCC	0.13	0.15	8.08	11.76	20.12
TCTTCTAACCCTCCCAATCC	7.49	24.45	365.26	502.08	899.28
TCTTCTAACCCTCCCA	0	0.1	0.75	1.47	2.32
TCTTCTAACCCTCCCAAT	0	0.15	1.29	4.59	6.03
TCTTCTAACCCTCCCAAT	0.13	0.24	1.29	1.29	2.95
TCTTCTAACCCTCCCA	0	0	0.11	0	0.11
TCTTCTAACCCTCCCAATCCCT	0.04	0.15	0	0	0.19
TCTTCTAACCCTCCCA	0	0	0.11	0	0.11
CTTCTAACCCTCCCAAT	0	0	0	0.18	0.18
CTTCTAACCCTCCCAATCCCT	0.08	0.24	1.94	1.29	3.55
CTTCTAACCCTCCCAATCC	0	0.05	7.54	9.74	17.33
CTTCTAACCCTCCCAAT	0	0	0.22	0.37	0.59
CTTCTAACCCTCCCAATCCCT	0	0	0.11	0	0.11
CTTCTAACCCTCCCAATCC	0.04	0	0.43	0	0.43
TTTCTAACCCTCCCAATCCCT	0	0	0.11	0.18	0.33
TTTCTAACCCTCCCAATCC	0	0	0.11	0.18	0.29
TTTCTAACCCTCCCAAT	0	0	0.22	0	0.22
TTTCTAACCCTCCCAATCCCTTC	0.13	0.05	0.43	0.18	0.79
TTTCTAACCCTCCCA	0	0	0.11	0	0.11
TTTCTAACCCTCCCAATCCCTT	0.04	0	0.54	0.37	0.95
TTTCTAACCCTCCCAATCCCTTCAA	0.04	0	0	0	0.04
TTTCTAACCCTCCCAATCCCTTCAA	0	0	0	0.18	0.18
TTTCTAACCCTCCCAATCCCTTCAA	0.38	0.58	6.36	0.92	8.24
TTTCTAACCCTCCCAATCCCTTCAA	0	0.1	1.72	2.76	4.58
TTTCTAACCCTCCCAATCCCTTCAA	0	0.1	0.97	2.02	3.09
TTTCTAACCCTCCCAATCCCTTCAA	0	0.1	0.11	0	0.21
TTTCTAACCCTCCCA	0	0	0.22	0.18	0.4
TTTCTAACCCTCCCAATCCCTT	0	0	0.11	0	0.11
TCTAACCCTCCCAATCCCT	0	0	0.11	0	0.11
TCTAACCCTCCCAATCCCTTCAA	0	0	2.59	0.92	3.51
CTAACCCTCCCAATCCCT	0	0	0	0.18	0.18
CTAACCCTCCCAATCC	0	0	0.75	0.18	0.93
CTAACCCTCCCAATCCCTTCAA	0	0	0.11	0	0.11
CTAACCCTCCCAATCCCTTCAA	0	0	0.65	0	0.65
CTAACCCTCCCAATCCCTTCAA	0	0	0.11	0	0.11
CCTCCCAATCCCTTCAAAT	0	0	0.11	0.18	0.29
CCTCCCAATCCCTTCAAAT	0	0	0.32	0.18	0.5
TTCAATTCCTAAAG	0	0	0	0.37	0.37
GGAATAGGAAGGCTTTGAGGAGGTTTATGGAGTGGAAAGGTTAGGAAAAGAAGTAACTCCTTTTTRGGTCTCAAATCTGGAGATCGAATTTCTTCTAACCCTCCCAATCCCTTCAAATTCCTAAAGTRTTATCCCTTTTCC					

mdm-miR482c

mdm-miR482c*: AGTGGAAAGGTTAGGAAAAGAAG

>mdm-miR482d MI0023143

	GSM880654_apple_flower	GSM880655_apple_fruit	GSM880653_apple_root	GSM880652_apple_leaf	Total
AAGTTGTTGGAATGGAAGGTT	0.18	0.65	0.05	0.84	1.72
AGTTGTTGGAATGGAAGGTTAGGA	0	0	0.04	0.04	0.04
AGTTGTTGGAATGGAAGGTT	0	0.11	0	0.04	0.15
AGTTGTTGGAATGGAAGGTTA	0	0	0.05	0.8	0.85
AGTTGTTGGAATGGAAGGTTAG	0	0	0	0.04	0.04
GTTGTTGGAATGGAAG	0	0.11	0	0	0.11
GTTGTTGGAATGGAAGGTT	0	0	0	0.04	0.04
TTGTTGGAATGGAAGGTTAGGAAAGAA	0	0	0	0.04	0.04
TGTTGGAATGGAAGGTTAGGAA	0	0	0	0.04	0.04
TGTTGGAATGGAAGGTTAGGA	0	0	0	0.13	0.13
TGTTGGAATGGAAGGTT	0	0.11	0	0	0.11
TGTTGGAATGGAAGGTTAGGAAAG	0	0	0	0.04	0.04
TGTTGGAATGGAAGGTTAGGAAAGA	0	0	0	0.04	0.04
GTTGGAATGGAAGGTTAGGAA	0	0	0.05	0.04	0.09
TTGGAATGGAAGGTTAGGAAA	0	0	0.19	0	0.19
TTGGAATGGAAGGTTAGGAAAGA	0	0	0.05	0	0.05
TTGGAATGGAAGGTTAGGAAAG	0	0	0.05	0	0.05
TGGAATGGAAGGTTAGGAAAG	0	0	0.05	0.33	0.38
TGGAATGGAAGGTTAGGAAAGAA	0	0.22	0	0	0.22
OGAATGGAAGGTTAGGAAAGA	0	0	0	0.21	0.21
GAATGGAAGGTTAGGAAAGAAG	0	0	0	0.04	0.04
GAATGGAAGGTTAGGAAAGA	0	0	0.15	0.33	0.48
GAATGGAAGGTTAGGAAAGAA	0	0.11	5.05	17.12	22.28
AATGGAAGGTTAGGAAA	0	0.11	0.05	0.25	0.41
AATGGAAGGTTAGGAAAG	1.29	0.11	0.24	0.33	1.97
AATGGAAGGTTAGGA	1.29	0.22	0	0.04	1.55
AATGGAAGGTTAGGAAAGAAGAAAC	0	0	0.05	0.13	0.18
AATGGAAGGTTAGGAAAGAAGA	0	0	0.83	3.39	4.22
AATGGAAGGTTAGGAAAGA	0.74	0.32	3.69	5.94	10.69
AATGGAAGGTTAGGAAAGAG	106.96	35.76	253.86	819.35	1215.93
AATGGAAGGTTAGGAAAGAAGAA	0.18	0	0.24	1.05	1.47
AATGGAAGGTTAGGAAAGAA	0.92	1.08	17.79	31.31	51.1
AATGGAAGGTTAGGAAAGAAGA	10.48	2.91	28.48	155.17	197.04
AATGGAAGGTTAGGAA	2.76	2.69	0	0.04	5.49
AATGGAAGGTTAGGAAAGAAGAAACT	0	0	0	0.08	0.08
ATGGAAGGTTAGGAAAGAG	0.37	0.11	0.44	1.67	2.59
ATGGAAGGTTAGGAAAGAAGAA	0.37	0.11	0	0	0.48
ATGGAAGGTTAGGAAAGAAGAAAC	0	0	0	0.04	0.04
ATGGAAGGTTAGGAAAGA	0	0	0.1	0.04	0.14
ATGGAAGGTTAGGAAAGAAGA	0.18	0.54	0.73	5.48	6.93
ATGGAAGGTTAGGAAAGAA	0	0	0.1	0.08	0.18
TGGAAGGTTAGGAAAGAG	0.74	0.32	0.68	0.5	2.24
TGGAAGGTTAGGAAAGAA	0	0	0.05	0.04	0.09
TGGAAGGTTAGGAAAGAAGA	0	0	0	0.21	0.21
TGGAAGGTTAGGAAAG	0.37	0.11	0	0	0.48
TGGAAGGTTAGGAAAGAAGAA	0	0	0	0.08	0.08
GGAAAGGTTAGGAAAGAG	0	0	0.05	0.13	0.18
GAAGGTTAGGAAAGAG	0.18	0.11	0.1	0.42	0.81
GAAGGTTAGGAAAGAAGA	0.18	0	0.1	0.04	0.22
GAAGGTTAGGAAAGAA	0	0.43	0	0	0.43
AAGGTTAGGAAAGAG	0	0	0.29	0.17	0.46
AGGTTAGGAAAGAG	0	0.11	0	0.04	0.15
AGAACTTCTCTTGTATGTTCC	0	0.32	0	0	0.32
AAACTTCTCTTGTATGTTCCA	0.18	0	0	0	0.18
TTCCTTGTATGTTCCAATT	0	0.54	0	0	0.54
TGTATGTTCCAATTCAAGA	0	0	0	0.04	0.04
TGTATGTTCCAATTCAAGAG	0	0.11	0	0	0.11
TTCCAATTCAAGAGATAAAAT	0	0.32	0	0	0.32
AGATAAAATTCCTTCTATC	0	0.22	0	0	0.22
ATAAAATTCCTTCTATCC	0	0.22	0.1	0.08	0.4
TAAAATTCCTTCTATCCCT	0	0	0.05	0.04	0.09
TAAAATTCCTTCTATCCCTCCATTCC	0.37	0	0	0	0.37
AATTCCTTCTATCCCTCCATTCC	0	0.11	0	0	0.11
AATTCCTTCTATCCCTCC	0	0	0.05	0	0.05
ATTCCTTCTATCCCTCCATTCC	0.37	0.11	0	0	0.48
TTCTTCTATCCCTCCAT	0.18	0.11	0	0	0.29
TTCTTCTATCCCTCCATTCC	1.47	0.22	0	0	1.69
TTCTTCTATCCCTCCATTCC	0	0.22	0	0	0.22
TTCTTCTATCCCTCCATT	3.31	0.54	0	0	3.85
TTCTTCTATCCCTCCATTCC	348.81	351.79	9.48	3.73	713.81
TTCTTCTATCCCTCCAT	0.92	1.4	0.05	0	2.37
TTCTTCTATCCCTCC	1.29	0.75	0.05	0	2.09
TTCTTCTATCCCTCCATTCTT	0	0	0.19	0.04	0.23
TTCTTCTATCCCTCCCA	2.02	0.86	0	0	2.88
TTCTTCTATCCCTCCATTCC	9.74	7.54	0.05	0.04	17.37
TTCTTCTATCCCTCC	0.18	0	0	0	0.18
TTCTTCTATCCCTCCAT	0	0.11	0	0	0.11
TTCTTCTATCCCTCCATTCTT	3.31	1.94	0	0.08	5.33
TTCTTCTATCCCTCCATTCC	1.1	0.11	0	0	1.21
TTCTTCTATCCCTCCATTCC	7.72	12.49	0.05	0	20.26
TTCTTCTATCCCTCCCA	0	0.11	0	0	0.11
TTCTTCTATCCCTCCATT	0	0.11	0	0	0.11
TTCTTCTATCCCTCCATTCTT	0	0	0.05	0	0.16
TTCTTCTATCCCTCCATTCTT	0	0.86	0.05	0	0.91
TTCTTCTATCCCTCCCA	0.18	0	0	0	0.18
TTCTTCTATCCCTCCATTCC	1.1	2.91	0.15	0.04	4.2
TTCTTCTATCCCTCCCA	0.18	0	0	0	0.18
TTCTTCTATCCCTCCATTCC	0	0.86	0	0	0.86
TTCTTCTATCCCTCCATTCC	0.18	0	0	0	0.18
TTCTTCTATCCCTCCATTCC	1.47	2.15	0	0	3.62
TTCTTCTATCCCTCCAT	0	0.11	0	0	0.11
TTCTTCTATCCCTCCATT	0.18	0	0	0	0.18
TTCTTCTATCCCTCCATTCC	0.37	0.54	0	0	0.91
TTCTTCTATCCCTCCATTCTT	0	0.11	0	0	0.11
TTCTTCTATCCCTCCATTCC	0.37	0.65	0	0	1.02
TATCCCTCCATTCC	0	0.22	0	0	0.22

AGGAAGTTGTTGGAATGGAAGGTTAGGAAAGAAGAAACTTCTCTTGTATGTTCCAATTCAAGAGATAAAATTCCTTCTATCCCTCCATTCTTCKATTTTCT

mdm-miR482d

mdm-miR482d*: TCTTCTATCCCTCCATTCC

>mdm-miR5225a MI0023160

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GCCTAGGGACTTCTGTCCAAGG
GCCTAGGGACTTCTGTCCAAGGTGA
GCCTAGGGACTTCTGTCCAAGGTG
GTAGGGACTTCTGTCCAAGGTG
TCTGTCCAAGGTGAGATGG
TCTGTCCAAGGTGAGATGGTGC
TCTGTCCAAGGTGAGATGGTCC
TCTGTCCAAGGTGAGATGGTG
TCTGTCCAAGGTGAGATGGT
CTGTCCAAGGTGAGATGGTGC
TGTCCAAGGTGAGATGGTGC
CGAAGGTGAGATGGTCCGAAG
CGAAGGTGAGATGGTGC
TTCATCCCTCCTCGACTGAAG
ATCAAAGCGTAGGGACTTCTGTCCAAGGTGAGATGGTCCGAAGCCATGTATATTGGTAGCTGCGATTACAAGCTTTATATAGTAGTCAATTCAGGCCAGCGAGCTTCATCCCTCCTCGACTGAAGCCTCTCACGCTTTGAT
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mdm-miR5225a

GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	Total
0.05	0	0	0	0.05
0.24	0	0	0	0.24
0.24	0	0	0	0.24
0	0.04	0	0	0.04
0	0	0.32	0	0.32
49.72	7.7	0.22	0.55	58.19
0.05	0	0	0	0.05
0.34	0.04	0	0	0.38
0.34	0	0	0	0.34
0.05	0	0	0	0.05
0.19	0	0	0	0.19
0	0	0.11	0	0.11
0.05	0	0	0	0.05
0.05	0.04	0	0	0.09

mdm-miR5225a*: TTCATCCCTCCTCGACTGAAG

>mdm-miR5225b MI0023161

GCCTAGGGACTTCTGTCGAAGG
GCCTAGGGACTTCTGTCGAAGGTGA
GCCTAGGGACTTCTGTCGAAGGTG
GTAGGGACTTCTGTCGAAGGTG
TCTGTCGAAGGTGAGATGG
TCTGTCGAAGGTGAGATGGTGC
TCTGTCGAAGGTGAGATGGTCC
TCTGTCGAAGGTGAGATGGTG
TCTGTCGAAGGTGAGATGGTG
CTGTCGAAGGTGAGATGGTGC
TGTGCAAGGTGAGATGGTGC
CGAAGGTGAGATGGTCCGAAG
CGAAGGTGAGATGGTGC
TTCATCCCTCCTCGACTGAAG
ATCAAAGCGTAGGGACTTCTGTCGAAGGTGAGATGGTCCGAAGCCATGTATATTGGTAGTCGATTACAAGCTTTATATAGCTAGTCAATTCAGGCCAGCGAGCTTCATCCCTCCTCGACTGAAGCCTCACGCTTTGAT
mdm-miR5225b

mdm-miR5225b*: TTCATCCCTCCTCGACTGAAG

GSM880653_apple_root	GSM880652_apple_leaf	GSM880655_apple_fruit	GSM880654_apple_flower	Total
0.05	0	0	0	0.05
0.24	0	0	0	0.24
0.24	0	0	0	0.24
0	0.04	0	0	0.04
0.05	0	0.32	0	0.37
49.72	7.7	0.22	0.55	58.19
0.05	0	0	0	0.05
0.34	0.04	0	0	0.38
0.34	0	0	0	0.34
0.05	0	0	0	0.05
0.19	0	0	0	0.19
0	0	0.11	0	0.11
0.05	0	0	0	0.05
0.05	0.04	0	0	0.09

>mdm-miR5225c MI0023156

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
TCGGGACTTCTGTCGTGGGTGA	0.04	0	0	0	0.04
CTTCTGTCGTGGGTGAGATGGT	4.06	1.26	0.11	0	5.43
CTTCTGTCGTGGGTGAGATGG	0.8	0.34	0	0	1.14
CTTCTGTCGTGGGTGAGATGGTG	0.08	0	0	0	0.08
TTCTGTCGTGGGTGAGATGGT	0.25	0.05	0	0	0.3
TCTGTCGTGGGTGAGATGGTGC	110.17	70.43	2.69	0.74	184.03
TCTGTCGTGGGTGAGATGGTG	1.38	1.26	0.11	0	2.75
TCTGTCGTGGGTGAGATGG	0.17	0	0.11	0	0.28
TCTGTCGTGGGTGAGAT	0	0	0.11	0	0.11
TCTGTCGTGGGTGAGATGGT	0.5	0.19	0	0	0.69
TCTGTCGTGGGTGAGATGGTGC	0	0.05	0	0	0.05
CTGTCGTGGGTGAGATGGTGC	0.33	0.1	0.11	0	0.54
CTGTCGTGGGTGAGATGGTGCC	0.46	0.15	0	0	0.61
TGTCGTGGGTGAGATGGTGC	0.38	0.05	0	0	0.43
GTCGTGGGTGAGATGGTGC	0.08	0	0	0	0.08
TCGTGGGTGAGATGGTGC	0.04	0.05	0	0	0.09
	GAGCCTCATCTCTCCGAC	0	0.11	0	0.11
	CTTCATCTCTCCGACAGAAG	0	0.05	0	0.05
	TTCATCTCTCCGACAGAAG	7.37	7.53	0.32	15.59
	TTCATCTCTCCGACAGAAG	0.08	0.05	0	0.13
	CATCTCTCTCCGACAGAAGCC	1	0.15	0.32	1.47
	CATCTCTCTCCGACAGAAG	0.13	0	0	0.13
	ATCTCTCTCCGACAGAAG	0.04	0	0	0.04
	ATCTCTCTCCGACAGAAGCC	0.17	0.1	0	0.27
	TCTCTCTCCGACAGAAGCCTTA	0.04	0	0	0.04
	TCTCTCTCCGACAGAAGCCTTAA	0.04	0	0	0.04
	TCTCTCTCCGACAGAAGCCTTAAT	0.08	0	0	0.08
	TCCTCGACAGAAGCCTTAATG	0.08	0	0	0.08
	TCCTCGACAGAAGCCTTAAT	1.42	0.15	0	1.57
	CCTCGACAGAAGCCTTAAT	0.08	0	0	0.08
	CTCGACAGAAGCCTTAATG	0.04	0	0	0.04
TCGAAATATCAAATCGTCGGGACTTCTGTCGTGGGTGAGATGGTGCACGTAATTCGGGGCAGCGAGCTTCATCTCTCCGACAGAAGCCTTAATGCTTTGATTCTACAGA					

mdm-miR5225c

mdm-miR5225c*: TTCATCTCTCCGACAGAAG

>mdm-MIR535a MI0023128

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880655_apple_fruit	Total
TGTGACAACGAGAGAGAGCACG	0.05	0	0	0	0.05
TGACAACGAGAGAGAGCAC	0.39	0.25	6.8	1.08	8.52
TGACAACGAGAGAGAGCACGCT	1.94	1.51	0.18	0.22	3.85
TGACAACGAGAGAGAG	0.1	0	2.39	0.75	3.24
TGACAACGAGAGAGAGCACGCTT	0.1	0.04	0	0	0.14
TGACAACGAGAGAGACA	0.1	0.04	122.76	158.02	280.92
TGACAACGAGAGAGAGCACGC	618.98	209.38	174.59	76.15	1079.1
TGACAACGAGAGAGAGCACG	3.26	1	9.56	2.05	15.87
TGACAACGAGAGAGAGC	0.05	0	4.04	2.48	6.57
TGACAACGAGAGAGAGA	0.05	0	2.57	0.54	3.16
GACAACGAGAGAGAGC	0	0	0.37	0.22	0.59
GACAACGAGAGAGAGCACGC	1.36	0.42	4.59	0.65	7.02
GACAACGAGAGAGAGCA	0	0	5.15	4.31	9.46
GACAACGAGAGAGAGCACGCT	0.19	0	0	0	0.19
GACAACGAGAGAGAGCACG	0	0	0.18	0	0.18
GACAACGAGAGAGAGCAC	0	0	0.18	0	0.18
ACAACGAGAGAGAGCAC	0	0	0.37	0	0.37
ACAACGAGAGAGAGCACGC	0.29	0.08	0.18	0.43	0.98
ACAACGAGAGAGAGCA	0	0	0.18	0.32	0.5
CAACGAGAGAGAGCAC	0	0	0	0.11	0.11
CAACGAGAGAGAGCACG	0	0	0.18	0	0.18
CAACGAGAGAGAGCA	0	0	0	0.11	0.11
CAACGAGAGAGAGCACGC	0.05	0.08	0	0.11	0.24
AACGAGAGAGAGCACGC	0.19	0.25	0.18	0	0.62
AACGAGAGAGAGCACG	0	0.04	0	0	0.04
AACGAGAGAGAGCACGCTTGTCA	0	0.04	0	0	0.04
ACGAGAGAGAGCACGC	2.58	1.8	0.37	0.43	5.18
ACGAGAGAGAGCACGCT	0.1	0.04	0	0	0.14
CGAGAGAGAGCACGCT	0.05	0	0	0	0.05
CGAGAGAGAGCACGCTTGTCA	0	0.04	0	0	0.04
CGAGAGAGAGCACGC	0.1	0.17	0.37	0.11	0.75
GAGAGAGAGCACGCT	0.05	0	0	0	0.05
ACGCTTGTCAATCACGCA	0	0	0	0.11	0.11
ATCACGCATGAAAGGATCATGTT	0	0.08	0	0	0.08
ATGAAAGGATCATGGTTGTTTACGG	0	0.04	0	0	0.04
ATGAAAGGATCATGGTTGTTTACG	0	0.17	0	0	0.17
TGAAAGGATCATGGTTGTTTACGG	0	0.04	0	0	0.04
TGAAAGGATCATGGTTGTTTACGGG	0	0.04	0	0	0.04
GAAAGGATCATGGTTGTTT	0	0	0.18	0	0.18
AAAGGATCATGGTTGTTTACGGGC	0	0.21	0	0	0.21
AAAGGATCATGGTTGTTTACGG	0	0.04	0	0	0.04
AAGGATCATGGTTGTTTACGGGC	0	0.04	0	0	0.04
GATCATGGTTGTTTACGGGCGTGC	0	0.04	0	0	0.04
CGTCCCTCTCTTGTGTCAAT	0.05	0	0	0.11	0.16
CGTCCCTCTCTTGTGTCAAT	0	0.04	0	0.11	0.15
GTGCCCTCTCTTGTGTCAAT	0	0	0	0.11	0.11
GTGCCCTCTCTTGTGTCAAT	0.05	0	0	2.15	2.2
TGCCCTCTCTTGTGTCAAT	0	0	0	0.22	0.22
GATGTTGTGTGACAACGAGAGAGAGCACGCTTGTCAATCACGCATGAAAGGATCATGGTTGTTTACGGGCGTGCCCTCTCTTGTGTCAATCGGTC					

mdm-miR535a

mdm-miR535a*: GTGCCCTCTCTTGTGTCAAT

>mdm-MIR535d MI0023131

	GSM880653_apple_root	GSM880652_apple_leaf	GSM880654_apple_flower	GSM880655_apple_fruit	Total
TGTGACGACGAGAGAGCAGCT	0.05	0	0	0	0.05
GTGACGACGAGAGAGCAGC	0.1	0.04	0	0	0.14
GTGACGACGAGAGAGCAGC	0.05	0	0	0	0.05
TGACGACGAGAGAGAG	0.19	0.21	0.55	0.11	1.06
TGACGACGAGAGAGAGCAGC	10309.94	6526.49	33.26	4.74	16874.43
TGACGACGAGAGAGAGCA	1.36	0.5	29.77	16.8	48.43
TGACGACGAGAGAGAGC	1.9	1.21	1.29	0.22	4.62
TGACGACGAGAGAGAG	0.1	0.17	0.92	0	1.19
TGACGACGAGAGAGAGCAC	13.56	8.54	1.84	0	23.94
TGACGACGAGAGAGAGCAGC	79.37	46	1.47	0.75	127.59
TGACGACGAGAGAGAGCAGCCTT	7.49	7.7	0	0	15.19
TGACGACGAGAGAGAGCAGCT	393.02	341.9	0	0	734.92
GACGACGAGAGAGAGCAGC	11.47	4.44	0.55	0	16.46
GACGACGAGAGAGAGCAGCT	24.06	8.25	0	0	32.31
GACGACGAGAGAGAGCAGCTT	0.1	0.04	0	0	0.14
GACGACGAGAGAGAGC	0	0	0.18	0	0.18
GACGACGAGAGAGAGCAGC	1.94	0.04	0.18	0	2.16
GACGACGAGAGAGAGCA	0.05	0	0.37	0.22	0.64
GACGACGAGAGAGAGCAC	0.05	0.08	0	0	0.13
ACGACGAGAGAGAGCAGCT	1.31	0.29	0	0	1.6
ACGACGAGAGAGAGCAGC	2.33	1.47	0.18	0	3.98
ACGACGAGAGAGAGCAGC	0.05	0	0	0	0.05
ACGACGAGAGAGAGCAGCTT	0	0.04	0	0	0.04
CGACGAGAGAGAGCAGCT	0.19	0.08	0	0	0.27
CGACGAGAGAGAGCA	0	0	0	0.11	0.11
CGACGAGAGAGAGCAGCTT	0	0.04	0	0	0.04
CGACGAGAGAGAGCAGC	1.8	0.54	0	0	2.34
GACGACGAGAGAGCAGC	0.1	0.08	0	0	0.18
GACGACGAGAGAGCAGC	7.87	5.36	0	0	13.23
GACGACGAGAGAGCAGCT	0.39	0.33	0	0	0.72
ACGACGAGAGAGCAGC	2.58	1.8	0.37	0.43	5.18
ACGACGAGAGAGCAGCT	0.1	0.04	0	0	0.14
CGACGAGAGAGCAGC	0.1	0.17	0.37	0.11	0.75
CGACGAGAGAGCAGCTTGTCA	0	0.04	0	0	0.04
CGACGAGAGAGCAGCT	0.05	0	0	0	0.05
GAGAGAGAGCAGCT	0.05	0	0	0	0.05
AGAGAGCAGCTTGTTCATCACCCA	0.05	0	0	0	0.05
GAGAGCAGCTTGTTCATCACCCA	0.05	0	0	0	0.05
AGAGCAGCTTGTTCATCACCATG	0.1	0	0	0	0.1
ATGAAAGGATCATGGTTGTTACGG	0	0.04	0	0	0.04
ATGAAAGGATCATGGTTGTTACG	0	0.17	0	0	0.17
TGAAAGGATCATGGTTGTTACGG	0	0.04	0	0	0.04
TGAAAGGATCATGGTTGTTACGGG	0	0.04	0	0	0.04
GAAAGGATCATGGTTGTTA	0	0	0.18	0	0.18
AAAGGATCATGGTTGTTACGG	0	0.04	0	0	0.04
AAAGGATCATGGTTGTTACGGG	0	0.21	0	0	0.21
AAGGATCATGGTTGTTACGGCG	0	0.04	0	0	0.04
GATCATGGTTGTTACGGCGTGC	0	0.04	0	0	0.04
ATCATGGTTGTTACGGCGTGCT	0	0.08	0	0	0.08
CGTGTCTTTCTTGTGTGCATA	0.19	0.42	1.1	0.32	2.03
CGTGTCTTTCTTGTGTGCAT	0.1	0.08	0.18	0.11	0.47
CGTGTCTTTCTTGTGTGT	0	0.04	0	0	0.04
GTGCTCTTTCTTGTGTGCATAA	0	0.04	0	0	0.04
GTGCTCTTTCTTGTGTGCATA	0.29	0.17	0.55	0	1.01
GTGCTCTTTCTTGTGTCA	0	0.04	0	0	0.04
GTGCTCTTTCTTGTGTGCAT	0.05	0	0	0	0.05
GTGCTCTTTCTTGTGTGCATAA	0.05	0	0	0	0.05
GATGTTGTGTGACGACGAGAGAGCAGCTTGTTCATCACCCATGAAAGGATCATGGTTGTTACGGCGTGTCTTTCTTGTGTGCATAAAGTC	0	0	0	0	0

mdm-miR535d

mdm-miR535d*: GTGCTCTTTCTTGTGTGCATA

	GSM80655_apple_fruit	GSM80652_apple_leaf	GSM80653_apple_root	GSM80654_apple_flower	Total
GCTTGTATATGTCAGATT	0.11	0	0	0	0.11
GCTTGTATATGTCAGATTG	0	0.04	0	0	0.04
GCTTGTATATGTCAGATTGTC	0	0.04	0	0	0.04
GCTTGTATATGTCAGATTGTCAGAT	0.11	0	0	0	0.11
CTTGTATATGTCAGATTGT	0	0.04	0.05	0	0.09
CTTGTATATGTCAGATTGTGTC	0	0.04	0.05	0	0.09
TTGTATATGTCAGATTGTCAA	0.13	0.05	0	0	0.18
TTGTATATGTCAGATTG	0.11	2.22	11.32	0	13.65
TTGTATATGTCAGATTGTC	1.62	36.38	184.02	2.02	224.04
TTGTATATGTCAGATT	0	0	0.05	0	0.05
TTGTATATGTCAGAT	0.11	0.04	0.05	0	0.2
TTGTATATGTCAGATTGT	0	1.17	2.72	0	3.89
TTGTATATGTCAGATTGTCA	0	0.88	1.9	0.18	2.96
TTGTATATGTCAGA	0	0.46	0.97	0	1.43
TGTTATATGTCAGATTGTC	0.22	3.06	2.48	0.55	6.31
TGTTATATGTCAGATTGT	0.22	1.3	0.44	0.18	2.14
TGTTATATGTCAGATTGTCA	1.62	830.11	392.87	4.41	1229.01
TGTTATATGTCAGATTGTCAA	0	0.05	0.05	0	0.05
TGTTATATGTCAGATTGTCAA	0	0.29	0.24	0	0.53
TGTTATATGTCAGATTG	0	2.3	1.41	0	3.71
GTTATATGTCAGATTGTC	0	0	0.05	0	0.05
GTTATATGTCAGATTGT	0.11	0	0	0	0.11
GTTATATGTCAGATTGTCA	0	0.17	0.05	0	0.22
TTATATGTCAGATTGTCA	0.11	0	0.24	0	0.35
TATATGTCAGATTGTCA	0.11	0.21	0.1	0	0.42
TATATGTCAGATTGTGTC	0.11	0.04	0.29	0	0.44
ATATGTCAGATTGTCA	0	0.38	0.49	0	0.87
ATATGTCAGATTGTCAACT	0	0	0	0.37	0.37
TATGTCAGATTGTCA	0	0.38	0	0	0.38
TATGTCAGATTGTC	0	0	0.05	0	0.05
TCAATCTGAACCTTTAATTACC	0	0.04	0	0	0.04
AATCTGAACCTTTAATTACCATT	0	0.04	0.24	0	0.28
AATCTGAACCTTTAATTACCATT	0	0.08	0.15	0	0.23
AATCTGAACCTTTAATTACCATTAA	0	0	0.1	0	0.1
AATCTGAACCTTTAATTACCATT	0	0	0.19	0	0.19
AATCTGAACCTTTAATTACCATA	0.11	0.04	0.1	0	0.25
AATCTGAACCTTTAATTACCATTAA	0	0.04	0	0	0.04
AATCTGAACCTTTAATT	0	0	0	0.37	0.37
ATCTGAACCTTTAATTACCATTAAATTA	0	0	0.05	0	0.05
ATCTGAACCTTTAATTACCATT	0	0	0.1	0	0.1
ATCTGAACCTTTAATTACCATA	0	0.08	0	0	0.08
ATCTGAACCTTTAATTACCATT	0.22	0	0	0.18	0.4
ATCTGAACCTTTAATTACC	0	0	0	0.55	0.55
ATCTGAACCTTTAATTACCATTAAATTTACG	0	0	0.05	0	0.05
CTGAACCTTTAATTACCATA	0.65	0	0	0	0.65
TGAACCTTTAATTACCATA	0.11	0	0	0.37	0.48
TTACGTAATTAATGGTTTCAGATTGTA	0	0	0.05	0.18	0.18
TACGTAATTAATGGTTTCAGATTG	0	0	0	0	0.05
ACGTAATTAATGGTTTCAGATTGAC	0.22	0.04	0	0	0.26
AATTAATGGTTTCAGATTGACAGTC	0.11	0.04	0	0	0.15
AATTAATGGTTTCAGATTGACAGT	0	0	0	0.18	0.18
ATTGACAGTCTGACAATATAA	0	0.33	0.1	0	0.43
ATTGACAGTCTGACAATATAACGT	0	0.04	0	0.04	0.04
ATTGACAGTCTGACAATA	0	0.04	0	0	0.04
TTGACAGTCTGACAATATAA	0	0.08	0	0	0.08
TTGACAGTCTGACAATATAACG	0	0.04	0	0	0.04
TTGACAGTCTGACAATATAAC	0	0.21	0.19	0	0.4
TTGACAGTCTGACAA	0.11	0	0	0	0.11
TGACAGTCTGACAATATAACGTGC	0.22	0	0	0	0.22
TGACAGTCTGACAATATAAC	0	0.04	0	0	0.04
ACAGTCTGACAATATAACGTG	4.42	0.63	0.58	1.47	7.1
ACAGTCTGACAATATAACGT	0.75	0.04	0	0	0.79
ACAGTCTGACAATATAACGTGC	0.65	0.04	0.15	0.74	1.58
ACAGTCTGACAATATA	0.54	0	0	0	0.54
ACAGTCTGACAATATAACGTGCC	0	0.08	0.19	0	0.27
CAGTCTGACAATATAAC	0.22	0.04	0	0	0.26
CAGTCTGACAATATAACGTGCC	6.68	11.09	7.53	4.04	29.34
CAGTCTGACAATATA	1.94	0	0	0.92	2.86
CAGTCTGACAATATAACGTG	29.3	2.13	1.07	6.43	38.93
CAGTCTGACAATATAACGT	7.97	0.38	0.15	2.02	10.52
CAGTCTGACAATATAACG	9.05	0.17	0.15	5.51	14.88
CAGTCTGACAATATAA	0.75	0	0	0.55	1.3
CAGTCTGACAATATAACGTGC	378.51	60.24	38.35	134.16	611.26
AGTCTGACAATATAACGTGC	0.75	0.04	0.05	0	0.84
AGTCTGACAATATAACG	0.11	0	0	0	0.11
AGTCTGACAATATAACGTGCC	0	0.04	0	0.05	0.05
AGTCTGACAATATAACGTGCCAAA	0	0	0	0.37	0.37
AGTCTGACAATATAACGTG	0.22	0	0	0	0.22
GTCTGACAATATAACG	0.43	0	0	2.02	2.45
GTCTGACAATATAACGTGC	3.88	0	0	23.52	27.4
GTCTGACAATATAAC	0.11	0	0	0	0.11
GTCTGACAATATAACGTGCC	0	0	0	2.02	2.02
GTCTGACAATATAACGTG	0.54	0	0	1.65	2.19
GTCTGACAATATAACGT	0.11	0	0	0	0.11
TCTGACAATATAACG	0.11	0	0	0.37	0.48
TCTGACAATATAACGT	0.11	0	0	0	0.11
TCTGACAATATAACGTGC	0.54	0	0	4.23	4.77
TCTGACAATATAACGTG	0.43	0	0	1.84	2.27
CTGACAATATAACGTG	0.11	0	0	0.37	0.48
CTGACAATATAACGTGCC	0	0.04	0	0.37	0.41
CTGACAATATAACGTGC	0.75	0.21	0.15	7.35	8.46
TGACAATATAACGTGC	0.11	0	0	0.92	1.03
TGACAATATAACGTGCC	0	0.04	0	0	0.04
ACAAATAAACGTGCC	0	0	0	0.18	0.18
CAAACTGTTGGCAATTGAGCATT	0	0	0.05	0	0.05
ACTGTTGGCAATTGAGCATT	0	0.04	0	0	0.04
CATACATATATATATA	0	0	0	0.37	0.37

ATGTATGTATATGTTAAAATGTTCTTTTGCCAGCCAATGTGGCTTGTATATGTCAGATTGTCAAATCTGAACCTTTAATTACCATTAAATTTACGTAATTAATGGTTTCAGATTGACAGTCTGACAATATAACGTGCCAAACTGTTGGCAATTGAGCATTTCATACATATATATATA

mdm-miR7120a

mdm-miR7120a*: ACAGTCTGACAATATAACGTG

>mdm-miR7120b MI0023142

	GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	Total
GCTTGTATATTTGTCAGATT	0.11	0	0	0	0.11
GCTTGTATATTTGTCAGATTG	0	0.04	0	0	0.04
GCTTGTATATTTGTCAGATTGTC	0	0.04	0	0	0.04
GCTTGTATATTTGTCAGATTGTCAGATTGTC	0.11	0	0	0	0.11
CTTGTATATTTGTCAGATTGTC	0	0.04	0.05	0	0.09
CTTGTATATTTGTCAGATTGTC	0	0.04	0.05	0	0.09
TTGTATATTTGTCAGATTGTC	0	0.13	0.05	0	0.18
TTGTATATTTGTCAGATTGTC	0.11	2.22	11.32	0	13.65
TTGTATATTTGTCAGATTGTC	1.62	36.38	184.02	2.02	224.04
TTGTATATTTGTCAGATTGTC	0	0	0.05	0	0.05
TTGTATATTTGTCAGATTGTC	0.11	0.04	0.05	0	0.2
TTGTATATTTGTCAGATTGTC	0	1.17	2.72	0	3.89
TTGTATATTTGTCAGATTGTC	0	0.88	1.9	0.18	2.96
TTGTATATTTGTCAGATTGTC	0	0.46	0.97	0	1.43
TTGTATATTTGTCAGATTGTC	0.22	3.06	2.48	0.55	6.31
TTGTATATTTGTCAGATTGTC	0.22	1.3	0.44	0.18	2.14
TTGTATATTTGTCAGATTGTC	1.62	830.11	392.87	4.41	1229.01
TTGTATATTTGTCAGATTGTC	0	0.05	0	0	0.05
TTGTATATTTGTCAGATTGTC	0	0.29	0.24	0	0.53
TTGTATATTTGTCAGATTGTC	0	2.3	1.41	0	3.71
TTGTATATTTGTCAGATTGTC	0	0	0.05	0	0.05
TTGTATATTTGTCAGATTGTC	0.11	0	0	0	0.11
TTGTATATTTGTCAGATTGTC	0	0.17	0.05	0	0.22
TTGTATATTTGTCAGATTGTC	0.11	0	0.24	0	0.35
TTGTATATTTGTCAGATTGTC	0.11	0.21	0.1	0	0.42
TTGTATATTTGTCAGATTGTC	0.11	0.04	0.29	0	0.44
TTGTATATTTGTCAGATTGTC	0	0.38	0.49	0	0.87
TTGTATATTTGTCAGATTGTC	0	0	0	0.37	0.37
TTGTATATTTGTCAGATTGTC	0	0.38	0	0	0.38
TTGTATATTTGTCAGATTGTC	0	0	0.05	0	0.05
TTGTATATTTGTCAGATTGTC	0	0.04	0	0	0.04
TTGTATATTTGTCAGATTGTC	0	0.04	0.24	0	0.28
TTGTATATTTGTCAGATTGTC	0	0.08	0.15	0	0.23
TTGTATATTTGTCAGATTGTC	0	0	0.1	0	0.1
TTGTATATTTGTCAGATTGTC	0	0	0.19	0	0.19
TTGTATATTTGTCAGATTGTC	0.11	0.04	0.1	0	0.25
TTGTATATTTGTCAGATTGTC	0	0.04	0	0	0.04
TTGTATATTTGTCAGATTGTC	0	0	0	0.37	0.37
TTGTATATTTGTCAGATTGTC	0	0	0.05	0	0.05
TTGTATATTTGTCAGATTGTC	0	0	0.1	0	0.1
TTGTATATTTGTCAGATTGTC	0	0.08	0.1	0	0.18
TTGTATATTTGTCAGATTGTC	0.22	0	0	0.18	0.4
TTGTATATTTGTCAGATTGTC	0	0	0	0.55	0.55
TTGTATATTTGTCAGATTGTC	0	0	0.05	0	0.05
TTGTATATTTGTCAGATTGTC	0.65	0	0	0	0.65
TTGTATATTTGTCAGATTGTC	0.11	0	0	0.37	0.48
TTGTATATTTGTCAGATTGTC	0	0	0	0.18	0.18
TTGTATATTTGTCAGATTGTC	0	0	0.05	0	0.05
TTGTATATTTGTCAGATTGTC	0.22	0.04	0	0	0.26
TTGTATATTTGTCAGATTGTC	0.11	0.04	0	0.18	0.15
TTGTATATTTGTCAGATTGTC	0	0	0	0	0.18
TTGTATATTTGTCAGATTGTC	0	0.33	0.1	0	0.43
TTGTATATTTGTCAGATTGTC	0	0.04	0	0	0.04
TTGTATATTTGTCAGATTGTC	0	0.04	0	0	0.04
TTGTATATTTGTCAGATTGTC	0	0.08	0	0	0.08
TTGTATATTTGTCAGATTGTC	0	0.04	0	0	0.04
TTGTATATTTGTCAGATTGTC	0	0.21	0.19	0	0.4
TTGTATATTTGTCAGATTGTC	0.11	0	0	0	0.11
TTGTATATTTGTCAGATTGTC	0.22	0	0	0	0.22
TTGTATATTTGTCAGATTGTC	0	0.04	0	0	0.04
TTGTATATTTGTCAGATTGTC	4.42	0.63	0.58	1.47	7.1
TTGTATATTTGTCAGATTGTC	0.75	0.04	0	0	0.79
TTGTATATTTGTCAGATTGTC	0.65	0.04	0.15	0.74	1.58
TTGTATATTTGTCAGATTGTC	0.54	0	0	0	0.54
TTGTATATTTGTCAGATTGTC	0	0.08	0.19	0	0.27
TTGTATATTTGTCAGATTGTC	0.22	0.04	0	0	0.26
TTGTATATTTGTCAGATTGTC	6.68	11.09	7.53	4.04	29.34
TTGTATATTTGTCAGATTGTC	1.94	0	0	0.92	2.86
TTGTATATTTGTCAGATTGTC	29.3	2.13	1.07	6.43	38.93
TTGTATATTTGTCAGATTGTC	7.97	0.38	0.15	2.02	10.52
TTGTATATTTGTCAGATTGTC	9.05	0.17	0.15	5.51	14.88
TTGTATATTTGTCAGATTGTC	0.75	0	0.55	1.3	1.3
TTGTATATTTGTCAGATTGTC	378.51	60.24	38.35	134.16	611.26
TTGTATATTTGTCAGATTGTC	0.75	0.04	0.05	0	0.84
TTGTATATTTGTCAGATTGTC	0.11	0	0	0	0.11
TTGTATATTTGTCAGATTGTC	0	0	0.05	0	0.05
TTGTATATTTGTCAGATTGTC	0	0	0	0.37	0.37
TTGTATATTTGTCAGATTGTC	0.22	0	0	0.74	0.96
TTGTATATTTGTCAGATTGTC	0.43	0	0	2.02	2.45
TTGTATATTTGTCAGATTGTC	3.88	0	0	23.52	27.4
TTGTATATTTGTCAGATTGTC	0.11	0	0	0	0.11
TTGTATATTTGTCAGATTGTC	0	0	0	2.02	2.02
TTGTATATTTGTCAGATTGTC	0.54	0	0	1.65	2.19
TTGTATATTTGTCAGATTGTC	0.11	0	0	0	0.11
TTGTATATTTGTCAGATTGTC	0.11	0	0	0.37	0.48
TTGTATATTTGTCAGATTGTC	0.11	0	0	0	0.11
TTGTATATTTGTCAGATTGTC	0.54	0	0	4.23	4.77
TTGTATATTTGTCAGATTGTC	0.43	0	0	1.84	2.27
TTGTATATTTGTCAGATTGTC	0.11	0	0	0.37	0.48
TTGTATATTTGTCAGATTGTC	0	0.04	0	0.37	0.41
TTGTATATTTGTCAGATTGTC	0.75	0.21	0.15	7.35	8.46
TTGTATATTTGTCAGATTGTC	0.11	0	0	1.03	1.03
TTGTATATTTGTCAGATTGTC	0	0.04	0	0	0.04
TTGTATATTTGTCAGATTGTC	0	0	0	0.18	0.18
TTGTATATTTGTCAGATTGTC	0	0	0.05	0	0.05
TTGTATATTTGTCAGATTGTC	0	0.04	0	0	0.04
TTGTATATTTGTCAGATTGTC	0	0	0	0.37	0.37

mdm-miR7120b

mdm-miR7120b*: ACAGTCTGACAATATAACGTG

>mdm-miR7121a MI0023144

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AGGGTGATTAACAAGGGA
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0.08
0
0.54
0.04
0
0
288.37
0.21
7.07
0
0.21
6.78
0.25
0
0
0.17
0.04
0.21
0
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0.17
0
0.29
0
0.13
0
0.29
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0
0.84
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mdm-miR7121a

mdm-miR7121a*: AGGGTGATTAACAAGGGATG

GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	Total
0.04	0	0	0	0.04
0.08	0.05	0.18	0	0.31
0	0.05	0	0	0.05
0.54	0.73	1.47	0.43	3.17
0.04	0	0.18	0	0.22
0	0.05	0	0	0.05
0	0	0	0.11	0.11
288.37	218.33	249.02	241.28	997
0.21	0.34	1.29	4.52	6.36
7.07	3.65	4.23	3.23	18.18
0	0	0.55	0	0.55
0.21	0.34	0.55	0.75	1.85
6.78	5.88	0.74	1.51	14.91
0.25	0.05	0	0.65	0.95
0	0	0	0.22	0.22
0	0	0.18	0.22	0.4
0	0	0.18	0	0.18
0.17	0.1	3.12	3.12	6.51
0.04	0	0	0	0.04
0.21	0.05	0	0.22	0.48
0	0.05	0	0	0.05
0	0	0	0.11	0.11
0	0	0.55	0	0.55
0.17	0.05	0	0	0.22
0	0	0	0.22	0.22
0.29	0.1	0.18	0	0.57
0	0	0	0.22	0.22
0	0	0	0.43	0.43
0.13	0.05	0.92	0.54	1.64
0	0	0.18	0.22	0.4
0.29	0.15	1.84	0.32	2.6
0	0	0	0.11	0.11
0	0	0	0.11	0.11
0	0	0	0.11	0.11
0	0	0	0.11	0.11
0.84	0	0	6.25	7.09

>mdm-miR7121c MI0023146

	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
TCTCTTGGTGATCGCCCTGT	249.02	218.33	241.28	288.37	997
TCTCTTGGTGATCGCCCTGC	0	0.05	0.65	0.25	0.95
TCTCTTGGTGATCGCCCT	1.29	0.34	4.52	0.21	6.36
TCTCTTGGTGATCGCC	4.23	3.65	3.23	7.07	18.18
TCTCTTGGTGATCGCCCTG	0.74	5.88	1.51	6.78	14.91
TCTCTTGGTGATCGCC	0.55	0.34	0.75	0.21	1.85
TCTCTTGGTGATCGCCCTGTCC	0	0	0.22	0	0.22
TCTCTTGGTGATCG	0.55	0	0	0	0.55
CCTCTTGGTGATCGCCCTGT	3.12	0.1	3.12	0.17	6.51
CCTCTTGGTGATCGCCCT	0.18	0	0.22	0	0.4
CCTCTTGGTGATCGCCCTGTCC	0.18	0	0	0	0.18
CCTCTTGGTGATCGCCCTG	0	0	0	0.04	0.04
CTCTTGGTGATCGCCCTGT	0	0.05	0.22	0.21	0.48
CTCTTGGTGATCGCC	0	0.05	0	0	0.05
CTCTTGGTGATCGCCCTGTCC	0.55	0	0	0	0.55
CTCTTGGTGATCGCC	0	0	0.11	0	0.11
TCTTGGTGATCGCCCTGT	0	0.05	0	0.17	0.22
TCTTGGTGATCGCCCTGTCCCA	0	0	0.22	0	0.22
CTTGGTGATCGCCCTGT	0.18	0.1	0	0.29	0.57
TTGGTGATCGCCCTGTCCCATAT	0	0	0.43	0	0.43
TTGGTGATCGCCCTGT	0.92	0.05	0.54	0.13	1.64
TTGGTGATCGCCCTGTCCCA	0	0	0.22	0	0.22
TGGTGATCGCCCTGTCCCATAT	0.18	0	0.22	0.4	0.4
TGGTGATCGCCCTGTCCCATAT	1.84	0.15	0.32	0.29	2.6
GGTGATCGCCCTGTCCCATAT	0	0	0.11	0	0.11
TGATCGCCCTGTCCCATATGT	0.37	0	0	0	0.37
CCCATATGTCCTTCTGGATTC	0.18	0	0	0	0.18
CCCATATGTCCTTCTGGATTCAG	0.74	0	0	0	0.74
CTGGATTCAGGGTCTGCATATGGAC	0	0.05	0	0	0.05
AGGGTCTGCATATGGACAGGTGTC	0	0	0	0.04	0.04
CATATGGACAGGGTATTAC	0	0	0	0.04	0.04
CATATGGACAGGGTATTACC	0	0	0	0.04	0.04
ATATGGACAGGGTATTACCA	0	0	0	0.13	0.13
ATATGGACAGGGTATTACC	0	0	0	0.04	0.04
FATGGACAGGGTATTACCAAG	0	0	0	0.04	0.04
ATGGACAGGGTATTACCAA	1.47	0.1	0.65	0	2.22
ATGGACAGGGTATTACCAAG	2.21	10.74	2.91	10.97	26.83
ATGGACAGGGTATTACC	0.92	0	0.32	0	1.24
ATGGACAGGGTATTACCA	0.37	0	0	0	0.37
ATGGACAGGGTATTACCA	0	0	0	0.04	0.04
ATGGACAGGGTATTAC	0.18	0	0	0	0.18
TGGACAGGGTATTACCAAG	0	0.1	0	0	0.1
GGACAGGGTATTACC	0.18	0	0	0	0.18
GACAGGGTATTACCAAG	0	0	0	0.04	0.04
ACAGGGTATTACCAAGGTG	0	0.05	0	0	0.05
ACAGGGTATTACCAAG	0.18	0	0	0	0.18
ACAGGGTATTACCAAG	0.18	0	0.11	0	0.29
AGGGTATTACCAAG	2.02	0	0.11	0	2.13
AGGGTATTACCAAGGTGATG	0.55	0.1	2.15	0.08	2.88
AGGGTATTACCAAGGTG	0.37	0	0	0	0.37
AGGGTATTACCAAGGTGATGA	0.37	0	0	0	0.37
GGGTATTACCAAGGTGATGA	0	0	0.11	0	0.11
TGATACCAAGGTGATGACGG	0.18	0	0.11	0	0.29
TTACCAAGGTGATGACGGTAA	0.74	0.05	0.11	0	0.9

TATTACATCTCTTGGTGATCGCCCTGTCCCATATGTCCTTCTGGATTCAGGGTCTGCATATGGACAGGTGTCCTTCTGGATTCAGGGTCTGCATATGGACAGGGTATTACCAAGGTGATGACGGTAATA

mdm-miR7121c

mdm-miR7121c*: AGGGTATTACCAAGGTGATG

>mdm-miR7121d MI0023147

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
TCATCCTCTTGGTGATCGCCC	0.08	0	0	0	0.08
ATCCTCTTGGTGATCGCCCTGC	0.54	0.24	0	0	0.78
ATCCTCTTGGTGATCGCCCTG	0.04	0	0.32	0	0.36
TCCTCTTGGTGATCGCCCTGCC	0.29	0.92	0	0	1.21
TCCTCTTGGTGATCGCCC	7.07	3.65	3.23	4.23	18.18
TCCTCTTGGTGATCGCCCT	0.21	0.34	4.52	1.29	6.36
TCCTCTTGGTGATCGCC	0.21	0.34	0.75	0.55	1.85
TCCTCTTGGTGATCGCCCTG	6.78	5.88	1.51	0.74	14.91
TCCTCTTGGTGATCGCCCTGC	97.7	170.36	34.47	0.18	302.71
TCCTCTTGGTGATCG	0	0	0	0.55	0.55
CCTCTTGGTGATCGCCCTGC	0.71	1.26	1.51	0	3.48
CCTCTTGGTGATCGCCCT	0	0	0.22	0.18	0.4
CCTCTTGGTGATCGCCCTG	0.04	0	0	0	0.04
CTCTTGGTGATCGCC	0	0.05	0	0	0.05
CTCTTGGTGATCGCCCTGC	0.13	0.1	0.11	0	0.34
CTCTTGGTGATCGCCC	0	0	0.11	0	0.11
TCTTGGTGATCGCCCTGC	0.04	0.1	0	0	0.14
CTTGGTGATCGCCCTGC	0.13	0.15	0	0	0.28
TTGGTGATCGCCCTGC	0.08	0.1	0	0	0.18
TTGGTGATCGCCCTGCCCCAC	0.29	0	0	0	0.29
TGGTGATCGCCCTGC	0.08	0	0	0	0.08
TGGTGATCGCCCTGCCCCACC	0.08	0	0	0	0.08
GGTGATCGCCCTGCCCCACC	0.04	0	0	0	0.04
GGTGATCGCCCTGCCCCACCA	0.04	0	0	0	0.04
	GGAACCTCTGGATTCAGGGCCTGCA	0	0	0	0
	GAACTCTGGATTCAGGGCCTGCA	0.04	0	0	0.04
	ATATGGACAGGGTGGTTACC	0	0.1	0	0.1
	ATATGGACAGGGTGGTTACCA	0.13	0.87	0	1
	ATATGGACAGGGTGGTTACCAA	0	0.19	0	0.19
	TATGGACAGGGTGGTTACC	0.04	0	0	0.04
	TATGGACAGGGTGGTTACCAAT	0.71	0.78	0	1.49
	TATGGACAGGGTGGTTACCAA	5.9	13.46	0	19.36
	TATGGACAGGGTGGTTACCA	0.08	0	0	0.08
	ATGGACAGGGTGGTTACCAAT	23.27	4.37	0.11	27.75
	ATGGACAGGGTGGTTACCAA	2.55	0.19	0	2.74
	TGGACAGGGTGGTTACCAAT	3.27	0.1	0	3.37
	TGGACAGGGTGGTTACCAA	0.04	0	0	0.04
	TGGACAGGGTGGTTACCAATG	0.38	0	0	0.38
	TGGACAGGGTGGTTACCAATGGGA	0	0.05	0	0.05
	ACAGGGTGGTTACCAA	0	0.05	0	0.05
	AGGGTGGTTACCAATGGGATG	3.64	18.13	22.94	44.71
	AGGGTGGTTACCAATGGGAT	0	1.6	0.86	2.46
	AGGGTGGTTACCAATGGG	0	0	0.11	0.11
	AGGGTGGTTACCAATGGGA	0.17	0.19	0	0.36
	GGGTGGTTACCAATGGGATG	0	0.05	0	0.05
	GGGTGGTTACCAATGG	0	0	0.11	0.11
	GTGGTTACCAATGGGATGACG	0.17	0	0	0.17
	GGTTACCAATGGGATG	0	0.1	0	0.1
	GTTACCAATGGGATG	0	0.05	0	0.05

TATTACCTCATCCTCTTGGTGATCGCCCTGCCCCACCATATGGCCTTCTGAATTCAGGGAACCTCTGGATTCAGGGCCTGCATATGGACAGGGTGGTTACCAATGGGATGACGGTAATA

mdm-miR7121d

mdm-miR7121d*: AGGGTGGTTACCAATGGGATG

>mdm-miR7121e MI0023148

	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
TCATCCTCTGGTGATCGCCC	0.08	0	0	0	0.08
ATCCTCTGGTGATCGCCCTGC	0.54	0.24	0	0	0.78
ATCCTCTGGTGATCGCCCTGC	0.04	0	0.32	0	0.36
TCCTCTGGTGATCGCCCTGC	0.29	0.92	0	0	1.21
TCCTCTGGTGATCGCCC	7.07	3.65	3.23	4.23	18.18
TCCTCTGGTGATCGCCCT	0.21	0.34	4.52	1.29	6.36
TCCTCTGGTGATCGCC	0.21	0.34	0.75	0.55	1.85
TCCTCTGGTGATCGCCCTG	6.78	5.88	1.51	0.74	14.91
TCCTCTGGTGATCGCCCTGC	97.7	170.36	34.47	0.18	302.71
TCCTCTGGTGATCG	0	0	0	0.55	0.55
CCTCTGGTGATCGCCCTGC	0.71	1.26	1.51	0	3.48
CCTCTGGTGATCGCCCT	0	0	0.22	0.18	0.4
CCTCTGGTGATCGCCCTG	0.04	0	0	0	0.04
CTCTGGTGATCGCC	0	0.05	0	0	0.05
CTCTGGTGATCGCCCTGC	0.13	0.11	0.11	0	0.34
CTCTGGTGATCGCCC	0	0	0.11	0	0.11
TCCTGGTGATCGCCCTGC	0.04	0.1	0	0	0.14
CTGGTGATCGCCCTGC	0.13	0.15	0	0	0.28
TTGGTGATCGCCCTGC	0.08	0.1	0	0	0.18
TTGGTGATCGCCCTGCCCCAC	0.29	0	0	0	0.29
TGGTGATCGCCCTGC	0.08	0	0	0	0.08
TGGTGATCGCCCTGCCCCACC	0.08	0	0	0	0.08
GTTGATCGCCCTGCCCCACC	0.04	0	0	0	0.04
GTTGATCGCCCTGCCCCACCA	0.04	0	0	0	0.04
GAACTTCTGGATTAGGGCCCTGCA	0	0.05	0	0	0.05
GAACTTCTGGATTAGGGCCCTGCA	0.04	0	0	0	0.04
ATATGGACAGGGTGGTTACC	0	0.1	0	0	0.1
ATATGGACAGGGTGGTTACCA	0.13	0.87	0	0	1
ATATGGACAGGGTGGTTACCA	0	0.19	0	0	0.19
TATGGACAGGGTGGTTACC	0.04	0	0	0	0.04
TATGGACAGGGTGGTTACCAAT	0.71	0.78	0	0	1.49
TATGGACAGGGTGGTTACCA	5.9	13.46	0	0	19.36
TATGGACAGGGTGGTTACCA	0.08	0	0	0	0.08
ATGGACAGGGTGGTTACCAAT	23.27	4.37	0.11	0	27.75
ATGGACAGGGTGGTTACCA	2.55	0.19	0	0	2.74
TGGACAGGGTGGTTACCAAT	3.27	0.1	0	0	3.37
TGGACAGGGTGGTTACCA	0.04	0	0	0	0.04
TGGACAGGGTGGTTACCAATG	0.38	0	0	0	0.38
TGGACAGGGTGGTTACCAATGGGA	0	0.05	0	0	0.05
ACAGGGTGGTTACCA	0	0.05	0	0	0.05
AGGGTGGTTACCAATGGGATG	3.64	18.13	22.94	0	44.71
AGGGTGGTTACCAATGGAT	0	1.6	0.86	0	2.46
AGGGTGGTTACCAATGGG	0	0	0.11	0	0.11
AGGGTGGTTACCAATGGGA	0.17	0.19	0	0	0.36
GGGTGGTTACCAATGGGATG	0	0.05	0	0	0.05
GGGTGGTTACCAATGG	0	0	0.11	0	0.11
GTGGTTACCAATGGGATGACG	0.17	0	0	0	0.17
GTTACCAATGGGATG	0	0.1	0	0	0.1
GTTACCAATGGGATG	0	0.05	0	0	0.05
TATTACCTCATCCTCTGGTGATCGCCCTGCCCCACCCATATGCGCTTCTGAATTACAGGAACTTCTGGATTAGGGCCCTGCATATGGACAGGGTGGTTACCAATGGGATGACGGTAATA					

mdm-miR7121e

mdm-miR7121e*: AGGGTGGTTACCAATGGGATG

>mdm-MIR7121g MI0023150

	GSM880653_apple_root	GSM880654_apple_flower	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
TCCTCCTTGGTGATCGCCC	0.05	0	0	0	0.05
CTCCTCTTGGTGATCGCCCTG	0.73	1.47	0.43	0.54	3.17
CTCCTCTTGGTGATCGCCC	0.05	0	0	0	0.05
CTCCTCTTGGTGATCGCCCT	0	0	0.11	0	0.11
TCCTCTTGGTGATCGCCC	0.34	0.55	0.75	0.21	1.85
TCCTCTTGGTGATCGCCCT	0.34	1.29	4.52	0.21	6.36
TCCTCTTGGTGATCGCCCTGCC	0.92	0	0	0.29	1.21
TCCTCTTGGTGATCGCCCTGC	170.36	0.18	34.47	97.7	302.71
TCCTCTTGGTGATCGCCC	3.65	4.23	3.23	7.07	18.18
TCCTCTTGGTGATCGCCCTG	5.88	0.74	1.51	6.78	14.91
TCCTCTTGGTGATCG	0	0.55	0	0	0.55
CCTCTTGGTGATCGCCCTGC	1.26	0	1.51	0.71	3.48
CCTCTTGGTGATCGCCCTG	0	0	0	0.04	0.04
CCTCTTGGTGATCGCCCT	0	0.18	0.22	0	0.4
CTCTTGGTGATCGCCCTGC	0.1	0	0.11	0.13	0.34
CTCTTGGTGATCGCCC	0.05	0	0	0	0.05
CTCTTGGTGATCGCCC	0	0	0.11	0	0.11
TCTTGGTGATCGCCCTGC	0.1	0	0	0.04	0.14
CTTGGTGATCGCCCTGC	0.15	0	0	0.13	0.28
TTGGTGATCGCCCTGC	0.1	0	0	0.08	0.18
TGGTGATCGCCCTGC	0	0	0	0.08	0.08
ACAGGGTGGTTACCAA	0.05	0	0	0	0.05
AGGGTGGTTACCAATGGGAT	1.6	0	0.86	0	2.46
AGGGTGGTTACCAATGGG	0	0	0.11	0	0.11
AGGGTGGTTACCAATGGGA	0.19	0	0	0.17	0.36
AGGGTGGTTACCAATGGGATG	18.13	0	22.94	3.64	44.71
GGTGGTTACCAATGGGATG	0.05	0	0	0	0.05
GGTGGTTACCAATGG	0	0	0.11	0	0.11
GTGGTTACCAATGGGATGACG	0	0	0	0.17	0.17
GGTACCAATGGGATG	0.1	0	0	0	0.1
GTTACCAATGGGATG	0.05	0	0	0	0.05
TATTACCCTCCTCCTTGGTGATCGCCCTGCCCATATGGTCTTCTGAATTCAGGGCCTGCATATCGACAGGGTGGTTACCAATGGGATGACGGTAATA					

mdm-miR7121g

mdm-miR7121g*: AGGGTGGTTACCAATGGGATG

>mdm-miR7121h MI0023151

TCATCCTCTGGTGATCGCCC
 ATCCTCTGGTGATCGCCCTGC
 ATCCTCTGGTGATCGCCCTG
 TCCTCTGGTGATCGCCCTGCC
 TCCTCTGGTGATCGCCC
 TCCTCTGGTGATCGCCCT
 TCCTCTGGTGATCGCC
 TCCTCTGGTGATCGCCCTG
 TCCTCTGGTGATCGCCCTGC
 TCCTCTGGTGATCG
 CCTCTGGTGATCGCCCTGC
 CCTCTGGTGATCGCCCT
 CCTCTGGTGATCGCCCTG
 CTCCTGGTGATCGCC
 CTCCTGGTGATCGCCCTGC
 CTCCTGGTGATCGCC
 TCTTGGTGATCGCCCTGC
 CTTGGTGATCGCCCTGC
 TTGGTGATCGCCCTGC
 TTGGTGATCGCCCTGCCACC
 TGGTGATCGCCCTGC
 TGGTGATCGCCCTGCCACC
 GGTGATCGCCCTGCCACC
 GGTGATCGCCCTGCCACC

GGAACCTCTGGATTACAGGGCCTGCA
 GAACCTCTGGATTACAGGGCCTGCA

ATATGGACAGGGTGGTTACC
 ATATGGACAGGGTGGTTACCA
 ATATGGACAGGGTGGTTACCAA
 TATGGACAGGGTGGTTACC
 TATGGACAGGGTGGTTACCAAT
 TATGGACAGGGTGGTTACCAA
 TATGGACAGGGTGGTTACCA
 ATGGACAGGGTGGTTACCAAT
 ATGGACAGGGTGGTTACCAA
 TGGACAGGGTGGTTACCAAT
 TGGACAGGGTGGTTACCAA
 TGGACAGGGTGGTTACCAATG
 TGGACAGGGTGGTTACCAATGGGA
 ACAGGGTGGTTACCAA
 AGGGTGGTTACCAATGGGATG
 AGGGTGGTTACCAATGGGAT
 AGGGTGGTTACCAATGGG
 AGGGTGGTTACCAATGGGA
 GGGTGGTTACCAATGGGATG
 GGGTGGTTACCAATGGG
 GTGGTTACCAATGGGATGACG
 GGTACCAATGGGATG
 GTTACCAATGGGATG

GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	GSM880654_apple_flower	Total
0.08	0	0	0	0.08
0.54	0.24	0	0	0.78
0.04	0	0.32	0	0.36
0.29	0.92	0	0	1.21
7.07	3.65	3.23	4.23	18.18
0.21	0.34	4.52	1.29	6.36
0.21	0.34	0.75	0.55	1.85
6.78	5.88	1.51	0.74	14.91
97.7	170.36	34.47	0.18	302.71
0	0	0	0.55	0.55
0.71	1.26	1.51	0	3.48
0	0	0.22	0.18	0.4
0.04	0	0	0	0.04
0	0.05	0	0	0.05
0.13	0.1	0.11	0	0.34
0	0	0.11	0	0.11
0.04	0.1	0	0	0.14
0.13	0.15	0	0	0.28
0.08	0.1	0	0	0.18
0.29	0	0	0	0.29
0.08	0	0	0	0.08
0.08	0	0	0	0.08
0.04	0	0	0	0.04
0.04	0	0	0	0.04
0	0.05	0	0	0.05
0.04	0	0	0	0.04
0	0.1	0	0	0.1
0.13	0.87	0	0	1
0	0.19	0	0	0.19
0.04	0	0	0	0.04
0.71	0.78	0	0	1.49
5.9	13.46	0	0	19.36
0.08	0	0	0	0.08
23.27	4.37	0.11	0	27.75
2.55	0.19	0	0	2.74
3.27	0.1	0	0	3.37
0.04	0	0	0	0.04
0.38	0	0	0	0.38
0	0.05	0	0	0.05
0	0.05	0	0	0.05
3.64	18.13	22.94	0	44.71
0	1.6	0.86	0	2.46
0	0	0.11	0	0.11
0.17	0.19	0	0	0.36
0	0.05	0	0	0.05
0	0	0.11	0	0.11
0.17	0	0	0	0.17
0	0.1	0	0	0.1
0	0.05	0	0	0.05

TATTACCCATCCTCTGGTGATCGCCCTGCCACCACCATATGGCCTTCTGAATTCAGGGAACCTCTGGATTACAGGGCCTGCATATGGACAGGGTGGTTACCAATGGGATGACGGTAATA

mdm-miR7121h

mdm-miR7121h*: AGGGTGGTTACCAATGGGATG

>mdm-miR7122a MI0023152

	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	Total
TTTATACAGAGAAATCACGGTCC	0.18	0	0	0	0.18
TTTATACAGAGAAATCACGGTCC	0.55	0.92	1.31	0.11	2.89
TTTATACAGAGAAATCAC	1.47	0	0	0	1.47
TTTATACAGAGAAATCACGG	0.55	8.87	7.05	0	16.47
TTTATACAGAGAAATCACG	0.37	0.04	0	0.11	0.52
TTTATACAGAGAAATCAC	0.55	0	0	0.11	0.66
TTTATACAGAGAAATCACGGTCC	80.13	409.76	488.57	20.14	998.6
TTTATACAGAGAAATCACGGT	5.33	0.63	0.15	3.02	9.13
TTTATACAGAGAAATCACGGTCCA	0	1.34	0.87	0	2.21
TTTATACAGAGAAATCACGGTCCG	2.94	0.67	0.49	1.08	5.18
TTTATACAGAGAAATCACGGTCC	0	0.04	0	0.11	0.15
TTTATACAGAGAAATCACGGTCCG	0.18	0.08	0.29	0.11	0.66
TTTATACAGAGAAATCACGGTCCG	0	0.08	0.05	0	0.13
TTTATACAGAGAAATCACGGTCCG	1.29	0.42	0.39	0.22	2.32
TTTATACAGAGAAATCACGG	0.18	0	0	0	0.18
TTTATACAGAGAAATCACGGT	0.18	0	0	0	0.18
TTTATACAGAGAAATCACGGTCC	0.18	0	0.05	0	0.23
TTTATACAGAGAAATCACGGTCCGAGATC	0	0.17	0	0	0.17
TTTATACAGAGAAATCACGGTCCG	0.37	0.04	0.19	0	0.6
TTTATACAGAGAAATCACGGTCCG	0.18	0	0	0.32	0.5
TTTATACAGAGAAATCACGGTCCG	0.18	0	0	0	0.18
TTTATACAGAGAAATCACGGTCCG	0	0.04	0	0	0.04
TTTATACAGAGAAATCACGGTCCG	0	0.04	0	0	0.04
TTTATACAGAGAAATCACGGTCCG	0.74	0.13	0.05	0	0.92
TTTATACAGAGAAATCACGGTCCG	0	0.13	0.05	0	0.18
TTTATACAGAGAAATCACGGTCCG	0.18	0	0	0	0.18
TTTATACAGAGAAATCACGGTCCG	0	0	0.05	0	0.05
TTTATACAGAGAAATCACGGTCCG	0	0.25	0.24	0	0.49
TTTATACAGAGAAATCACGGTCCG	0.18	0	0	0	0.18
TTTATACAGAGAAATCACGGTCCG	0	0.04	0.1	0	0.14
GGGTTTCATTCATTCCTTTTATACAGAGAAATCACGGTCCGAGATCAAAACTCAGAAGTCTGTCTCTCTCCGTCGTCACCCGTGTTTTCTGTATAAGAGATGTACTGGATCC					

mdm-miR7122a

mdm-miR7122a*: ACCGTGTTTTCTGTATAAAG

>mdm-miR7122b MI0023153

TTTATACAGAGAAATCACGGTCG
 TTATACAGAGAAATCACGGTC
 TTATACAGAGAAATCA
 TTATACAGAGAAATCACGG
 TTATACAGAGAAATCACG
 TTATACAGAGAAATCAC
 TTATACAGAGAAATCACGGTCG
 TTATACAGAGAAATCACGGT
 TTATACAGAGAAATCACGGTCGA
 TATACAGAGAAATCACGGTCG
 TATACAGAGAAATCACGGTC
 ATACAGAGAAATCACGGTCG
 TACAGAGAAATCACGGTCG
 ACAGAGAAATCACGGTCG
 ACAGAGAAATCACGG
 ACAGAGAAATCACGGT
 ACAGAGAAATCACGGTC
 CAGAGAAATCACGGTCGAGATC
 CAGAGAAATCACGGTCG
 AGAGAAATCACGGTCG
 GAGAAATCACGGTCG

AGATCAAAACTCAGAAGTCTGTCA

TCTCAACCGTGTCTTTCTGTGA
 ACCGTGTTTTCTGTATAAAG
 CCGTGTCTTTCTGTATAAAG
 CGTGTCTTTCTGTATA
 TGTATAAAGAGATGFACTGGA
 TATAAAGAGATGFACTGGATC
 TATAAAGAGATGFACTG
 TATAAAGAGATGFACTGGA

GGGTTCATTCCATCTTTTATACAGAGAAATCACGGTCGAGATCAAAACTCAGAAGTCTGTCAAGTCTGTCTCTCTCCGTCGTTCAACCGTGTCTTTCTGTATAAAGAGATGFACTGGATCC

mdm-miR7122b

mdm-miR7122b*: ACCGTGTTTTCTGTATAAAG

GSM880654_apple_flower	GSM880652_apple_leaf	GSM880653_apple_root	GSM880655_apple_fruit	Total
0.18	0	0	0	0.18
0.55	0.92	1.31	0.11	2.89
1.47	0	0	0	1.47
0.55	8.87	7.05	0	16.47
0.37	0.04	0	0.11	0.52
0.55	0	0	0.11	0.66
80.13	409.76	488.57	20.14	998.6
5.33	0.63	0.15	3.02	9.13
0	1.34	0.87	0	2.21
2.94	0.67	0.49	1.08	5.18
0	0.04	0	0.11	0.15
0.18	0.08	0.29	0.11	0.66
0	0.08	0.05	0	0.13
1.29	0.42	0.39	0.22	2.32
0.18	0	0	0	0.18
0.18	0	0	0	0.18
0.18	0	0.05	0	0.23
0	0.17	0	0	0.17
0.37	0.04	0.19	0	0.6
0.18	0	0	0.32	0.5
0.18	0	0	0	0.18
0	0.04	0	0	0.04
0	0.04	0	0	0.04
0.74	0.13	0.05	0	0.92
0	0.13	0.05	0	0.18
0.18	0	0	0	0.18
0	0	0.05	0	0.05
0	0.25	0.24	0	0.49
0.18	0	0	0	0.18
0	0.04	0.1	0	0.14

>mdm-miR7123a MI0023154

	GSM80652_apple_leaf	GSM80653_apple_root	GSM80655_apple_fruit	GSM80654_apple_flower	Total
TCAAAGACGGGATGTGTAAA	0.08	0	0	0	0.08
CAAAGACGGGATGTGTAAA	0.04	0	0	0	0.04
AAAGACGGGATGTGTAAA	0.13	0	0	0	0.13
AAAGACGGGATGTGTAAAAGT	0.13	0	0	0	0.13
AAAGACGGGATGTGTAAAAGT	0.04	0	0	0	0.04
AAAGACGGGATGTGTAAAAGT	0.17	0	0	0	0.17
AAAGACGGGATGTGTAAAAGG	2.64	0	0	0	2.64
AAAGACGGGATGTGTAAA	0.08	0	0	0	0.08
AAAGACGGGATGTGTAA	0.04	0	0	0	0.04
AAAGACGGGATGTGTAAAAGT	1.88	0	0	0	1.88
AAAGACGGGATGTGTAAAAG	3.39	0	0	0	3.39
AAAGACGGGATGTGTAAA	0.38	0	0	0	0.38
AAAGACGGGATGTGTAAAAGG	198.79	0.1	0	0	198.89
AAAGACGGGATGTGTAAAAGT	0.13	0	0	0	0.13
AAAGACGGGATGTGTAAAAGG	0.04	0	0	0	0.04
GAGCGGGATGTGTAAAAGG	0.08	0	0	0	0.08
GCGGGATGTGTAAAAGGCTAC	0.13	0	0	0	0.13
GCGGGATGTGTAAAAGGTC	0.04	0	0	0	0.04
GCGGGATGTGTAAAAGG	0.17	0	0	0	0.17
GCGGGATGTGTAAAAGGCTACTA	4.4	0	0.22	0	4.62
GCGGGATGTGTAAAAGGCTACTA	0.08	0	0	0	0.08
GCGGGATGTGTAAAAGGCTCT	0.08	0	0	0	0.08
GCGGGATGTGTAAAAGG	0.08	0	0	0	0.08
GCGGGATGTGTAAAAGGTC	0.04	0	0	0	0.04
TAAAGGTCCTACTAGCTGGTTG	0.04	0	0	0	0.04
AAAAGGTCCTACTAGCTGGTTG	0.13	0	0	0	0.13
TCTACTAGCTGGTTGCATGCA	0.04	0	0	0.18	0.18
CTTTACCTATCCCATTCTGT	0.04	0	0	0.18	0.22
AAGTCCCGTATTATTGTCA	0	0	0	0	0
GCTACATCGAAAACCTGACGATAGTCACTGACACTATCAGTTTCAAAGACGGGATGTGTAAAAGTCTACTAGCTGGTTGCATGATGTAATATGACGATACACCCTATTAKGCGTTTACCTATCCCATTCTGTGCCACTAAGTGCCCGTATTATTGTCAAGTTCTTTTGCAGTGGC	0.04	0	0	0	0.04

mdm-miR7123a

mdm-miR7123a*: CTTTACCTATCCCATTCTGT

>mdm-miR7123b MI0023155

	GSM80652_apple_leaf	GSM80653_apple_root	GSM80655_apple_fruit	GSM80654_apple_flower	Total
TCAAAGAGCGGGATGTGTA	0.08	0	0	0	0.08
CAAAGAGCGGGATGTGTA	0.04	0	0	0	0.04
AAAGAGCGGGATGTGTA	0.13	0	0	0	0.13
AAAGAGCGGGATGTGTA	0.13	0	0	0	0.13
AAAGAGCGGGATGTGTA	0.04	0	0	0	0.04
AAAGAGCGGGATGTGTA	0.17	0	0	0	0.17
AAAGAGCGGGATGTGTA	2.64	0	0	0	2.64
AAAGAGCGGGATGTGTA	0.08	0	0	0	0.08
AAAGAGCGGGATGTGTA	0.04	0	0	0	0.04
AAAGAGCGGGATGTGTA	1.88	0	0	0	1.88
AAAGAGCGGGATGTGTA	3.39	0	0	0	3.39
AAAGAGCGGGATGTGTA	0.38	0	0	0	0.38
AAAGAGCGGGATGTGTA	198.79	0.1	0	0	198.89
AAAGAGCGGGATGTGTA	0.13	0	0	0	0.13
AAAGAGCGGGATGTGTA	0.04	0	0	0	0.04
AAAGAGCGGGATGTGTA	0.08	0	0	0	0.08
AAAGAGCGGGATGTGTA	0.13	0	0	0	0.13
AAAGAGCGGGATGTGTA	0.04	0	0	0	0.04
AAAGAGCGGGATGTGTA	0.17	0	0	0	0.17
AAAGAGCGGGATGTGTA	4.4	0	0.22	0	4.62
AAAGAGCGGGATGTGTA	0.08	0	0	0	0.08
AAAGAGCGGGATGTGTA	0.08	0	0	0	0.08
AAAGAGCGGGATGTGTA	0.08	0	0	0	0.08
AAAGAGCGGGATGTGTA	0.04	0	0	0	0.04
AAAGAGCGGGATGTGTA	0.04	0	0	0	0.04
AAAGAGCGGGATGTGTA	0.04	0	0	0	0.04
AAAGAGCGGGATGTGTA	0.13	0	0	0	0.13
AAAGAGCGGGATGTGTA	0.04	0	0	0.18	0.18
AAAGAGCGGGATGTGTA	0.04	0	0	0.18	0.22
AAAGAGCGGGATGTGTA	0.04	0	0	0	0.04
CTTTTACCTATCCCATTCTGT					
AAGTGCCCGTGATTATTGTCA					
GCTACATCGAAAACCTGACGATAGTCACTGACACTATCAGTTCAAAGAGCGGGATGTGTA					
AAAGGTCTACTAGCTGGTTG					
AAAGGTCTACTAGCTGGTTG					
TCTACTAGCTGGTTGCATGCA					

mdm-miR7123b

mdm-miR7123b*: CTTTACCTATCCCATTCTGT

>mdm-miR7126 MI0023164

CGGAAACCCCAATTAGGACTAAAGTA
 CCCCATTAGGACTAAAGTAT
 CCCCATTAGGACTAAAG
 CCAATTAGGACTAAAGTATCAAGGAGCG
 CCAATTAGGACTAAAGTATCAAGGA
 CAATTAGGACTAAAGTAT
 AATTAGGACTAAAGTATCAAGGAG
 AATTAGGACTAAAGTATCAAGGAGCG
 ATTAGGACTAAAGTATCA
 TAGGACTAAAGTATCAAGGAG
 TAGGACTAAAGTATCAAGGAGCGC
 AGGACTAAAGTATCAAGGAGCGC
 AGGACTAAAGTATCAAGGAGCGC
 AGGACTAAAGTATCAAGGAGCGC
 ACTAAAGTATCAAGGAGCGCA
 CTAAAGTATCAAGGAGCGCA
 CTAAGTATCAAGGAGCGCA
 AAAGTATCAAGGAGCGCAAGAGA
 AAAGTATCAAGGAGCGCAAAAG
 AAAGTATCAAGGAGCGCAAAAG
 AAAGTATCAAGGAGCGCAAAA
 AAAGTATCAAGGAGCGCAAAAGAGA
 AAAGTATCAAGGAGCGCAAAAGAGA
 AGTATCAAGGAGCGCA
 AGTATCAAGGAGCGCAAAAG
 GCGCAAAGAGAAGCAGAAAGATCGCCG

GSM880653_apple_root	GSM880654_apple_flower	GSM880652_apple_leaf	GSM880655_apple_fruit	Total
0.05	0	0	0	0.05
0.05	0	0	0	0.05
0	0.18	0	0	0.18
0.05	0	0	0	0.05
0.05	0	0	0	0.05
0	0	0.04	0	0.04
0	0	0.04	0	0.04
0.05	0	0.04	0	0.09
0.05	0	0	0	0.05
0	0	0	0.11	0.11
0.15	0	0	0	0.15
0.1	0	0.04	0	0.14
0.24	0	0.08	0	0.32
0	0	0.04	0	0.04
0	0	0.04	0	0.04
0	0.74	0	0	0.74
0.1	0	0.13	0.22	0.45
0	0	0.04	0	0.04
0.1	0	0.17	0.11	0.38
6.42	6.43	6.61	1.29	20.75
0.15	0.92	0.63	0.43	2.13
0	0	0.04	0	0.04
0	0	0.04	0	0.04
0.05	0	0	0	0.05
0	1.65	0	0.75	2.4
0	1.65	0	0	1.65
0	0	0.04	0	0.04
0.05	0	0	0	0.05
0	0	0	0.11	0.11
0	0	0.04	0	0.04
0	0	0.04	0	0.04
0.05	0	0	0	0.05
0	0	0.04	0	0.04
0.15	0	0.04	0	0.19
0	0.18	0.13	0.75	1.06
0.05	0	0	0	0.05
1.41	2.94	4.23	3.45	12.03
0.15	0	0.29	0	0.44
0.15	0	0.18	0	0.18

GCGAAACCCCAATTAGGACTAAAGTATCAAGGAGCGCAAAAGAGAAGCAGAAAGATCGCCGCGCTTTTACCCCGAATCGTAGGCCTTTGGCGTCTCTGCTGTATCTTTGGCTTCCACTGATTCCTTTGGCCCTAATTGGTCCGACCCGC

mdm-miR7126

mdm-miR7126* : TTGGTCCACTGATTCCTTCG

>mdm-MIR7127a MI0023168

	GSM880655_apple_fruit	GSM880652_apple_leaf	GSM880653_apple_root	GSM880654_apple_flower	Total
GGAATACATCGAATTTGTCATA	0.32	0	0	0	0.32
ATACTCATCGAATTTGTT	0	0.04	0	0	0.04
ATACTCATCGAATTTGTCATAG	0	0.04	0	0	0.04
ATACTCATCGAATTTGTCAT	0	0.04	0	0	0.04
ATACTCATCGAATTTG	0	0.04	0	0	0.04
ATACTCATCGAATTTGTCATAGTG	0	0.04	0	0	0.04
ATACTCATCGAATTTGTCATA	0	2.55	0.44	3.31	6.3
TACTCATCGAATTTGTCATAG	0	0.08	0.05	0.37	0.5
TACTCATCGAATTTGTCATAGT	0	0	0	0.18	0.18
TACTCATCGAATTTGTCATA	0	0	0	0.18	0.18
CATCGAATTTGTCATAGTG	1.18	0.25	0	2.76	4.19
CATCGAATTTGTCATAGT	0.43	0	0	0	0.43
CATCGAATTTGTCATA	0	0	0	0.18	0.18
CATCGAATTTGTCATAG	0	0	0	0.18	0.18
CATCGAATTTGTCATAGTGT	0.32	0.13	0	1.84	2.29
CATCGAATTTGTCATAGTGT	0.22	0	0	0	0.22
TCGAATTTGTCATAGTGT	0	0	0	0.18	0.18
TCGAATTTGTCATAG	0	0	0	0.55	0.55
CGAATTTGTCATAGTGTTCAG	0	0.08	0	0	0.08
CGAATTTGTCATAGT	0	0	0	0.18	0.18
GAATTTGTCATAGTGTTCAG	0	0.04	0	0.37	0.41
AATTTGTCATAGTGTTCAG	0	0.04	0	0	0.04
AATTTGTCATAGTGTTCAGT	0.22	0	0	1.29	1.51
TTGTCATAGTGTTCAGTGT	0	0	0	0.37	0.37
AGCTAGAACAACCTTGACAAATTGG	0.22	0	0.05	0	0.27
AGAACAACCTTGACAAATTGGATGA	0	0.04	0	0	0.04
ACACTTGACAAATTGGATGA	0	0.04	0	0	0.04
CACTTGACAAATTGGATGAG	0	0.21	0.05	0	0.26
CACTTGACAAATTGGAT	0	0.04	0	0	0.04
CTTGACAAATTGGATGAGTA	0	0.04	0	0	0.04
CTTGACAAATTGGATGAGTAT	0	0.17	0	0	0.17
CTTGACAAATTGGATGAGTATT	0	0.04	0	0.18	0.22
TGACAAATTGGATGAGTATT	0	0.04	0	0	0.04
TGACAAATTGGATGAGTATTC	0	0.04	0	0	0.04
TGACAAATTGGATGAG	0.32	0	0	0	0.32
ATTGGAATACATCGAATTTGTCATAGTGTTCAGTGTGTATGGAACCAATTTTCTCCCACTCCCACTTACCACCAATTAATGGCACAGCTAGAACAACCTTGACAAATTGGATGAGTATTC					

mdm-miR7127a

mdm-miR7127a*: TGACAAATTGGATGAGTATTC

>mdm-MIR7128 MI0023173

ATCATTAACTTAATAACGA
CCAATTTTTTTTTTTT
TTATTAAGTGTAAATGATTGG
TTATTAAGTGTAAATGATTGGA
CCTTCCAATCATTAACTTAATAACGATCCAATTTTTTTTTTTTGTGCGAAAAAAAAATTCGAATCGTTATTAAGTGTAAATGATTGGAAGG
mdm-miR7128

GSM880655_apple_fruit	GSM880652_apple_leaf	Total
1.51	0.04	1.55
0.11	0	0.11
0.11	0.08	0.19
0	0.04	0.04

mdm-miR7128*: TTATTAAGTGTAAATGATTGG

>mdm-miR827 MI0023132

AGCAGTGGATATGTTTGTG
TTTGTGCTGGTACCTAGTT
TTGTTGCTGGTACCTAGTTA

TGACCCATGGCGGACGTTCTGA

TTCTGATTAGATGACCATCAACGA
ATTAGATGACCATCAACGAA
ATTAGATGACCATCAACGAAC
ATTAGATGACCATCAACGAACA
TTAGATGACCATCAACGAACA
TTAGATGACCATCAACGA
TTAGATGACCATCA
TTAGATGACCATCAACGAA
TTAGATGACCATCAACGAAC
TTAGATGACCATCAACG
TTAGATGACCATCAAC
TTAGATGACCATCAACGAACAC
TAGATGACCATCAACGAAC
TAGATGACCATCAACGA
TAGATGACCATCAACGAACA
AGATGACCATCAACGAACA
AGATGACCATCAACG
AGATGACCATCAACGA
AGATGACCATCAACGAAC
GATGACCATCAACGAACA
ATGACCATCAACGAACA
ATGACCATCAACGAAC
TGACCATCAACGAACA
GACCATCAACGAACA
ACGACACATTTCATGATGC
ACGAACACATTTCATGATCAAG

GSM80652_apple_leaf	GSM80655_apple_fruit	GSM80654_apple_flower	GSM80653_apple_root	Total
0.38	0	0	0	0.38
0	0.11	0	0	0.11
0.92	0.54	0.18	0.1	1.74
0	0	0	0.05	0.05
0	0	0	0.05	0.05
0.04	0.11	0.18	0	0.33
0.54	0.43	1.65	0.1	2.72
0.17	0	0	0.05	0.22
395.86	47.61	47.6	47.97	539.04
0.25	1.29	2.76	0	4.3
0	0.11	0	0	0.11
0.75	2.15	1.47	0.15	4.52
2.22	1.29	0.74	0.15	4.4
0	0	0.37	0	0.37
0	0	0.37	0	0.37
0.04	0	0	0.05	0.09
0.04	0.22	0	0	0.26
0	0.32	0.55	0	0.87
0.38	2.15	1.29	0.15	3.97
0.17	0.43	0.74	0.05	1.39
0	0.11	0	0	0.11
0	0.11	0.37	0	0.48
0	0	0.18	0	0.18
0.08	0	0.18	0	0.26
0.38	0	2.94	0	3.32
0.08	0	0	0	0.08
0.25	0.54	1.47	0	2.26
0.04	0	0	0	0.04
0	0	0.18	0	0.18
0	0	0.55	0	0.55

TTGCAGCAGTGGATATGTTTGTGCTGGTACCTAGTTATTCCATGGTCCATCCATCGCTGGCTCAATATATAATTTGTGTTGTATATGTTGATATATACATGAGTATTGTATATTGACCCATGGCGGACGTTCTGATTAGATGACCATCAACGAACAACATTTCATGATCAAG

mdm-miR827

mdm-miR827*: TTTGTGCTGGTACCTAGTT

>mdm-miR828a MI0023133

	GSM880654_apple_flower	GSM880653_apple_root	GSM880655_apple_fruit	GSM880652_apple_leaf	Total
CTCTTGTAAATGTTTCTTGCT	0.18	0	0	0	0.18
TCCTTGTAAATGTTTCTTGCTC	0	0.05	0	0	0.05
TCCTTGTAAATGTTTCTTGCTCA	0.37	0	0	0	0.37
TCTTGCTCAAATGAGTATTC	7.72	0	0.22	0	7.94
TCTTGCTCAAATGAGTATT	0.37	0	0	0	0.37
TCTTGCTCAAATGAGTATTCCA	162.27	0.1	29.84	0	192.21
TCTTGCTCAAATGAGTA	0.18	0	0.11	0	0.29
TCTTGCTCAAATGAGTATCCAGC	0.18	0	0.75	0	0.93
TCTTGCTCAAATGAGTATTC	0.74	0	0.22	0	0.96
CTTGCTCAAATGAGTATCCA	7.35	0	0.97	0	8.32
TGCTCAAATGAGTATCCAG	0.92	0	0	0	0.92
TGCTCAAATGAGTATCCA	0.37	0	0.11	0	0.48
TGCTCAAATGAGTATCCA	0.18	0	0	0.04	0.22
TGCTCAAATGAGTATCCAGC	0	0	0.32	0	0.32
CTCAAATGAGTATCCA	0.18	0	0	0	0.18
TCAAATGAGTATCCA	0	0	0.11	0	0.11
ATATATATATATATA	0	0	0.54	0	0.54
ATATATATATATATAT	0	0	0.22	0	0.22
ATATATATATATATA	0	0	0.32	0	0.32
ATATATATATATAT	0	0	0.22	0	0.22
ATATATATATATATATA	0	0	0.22	0	0.22
ATATATATATATATATAT	0	0	0.11	0	0.11
TATATATATATATA	0	0	0.32	0	0.32
TATATATATATATAT	0	0	0.11	0	0.11
TATATATATATAT	0	0	0.22	0	0.22
TGAGATGCTCATTGAGCAAG	0.92	0	0	0	0.92
AGATGCTCATTGAGCAAGC	0.18	0	0	0	0.18
AGATGCTCATTGAGCAAGCAG	0.37	0	0	0	0.37
GATGCTCATTGAGCAAGC	0.18	0	0	0	0.18
TCATTGAGCAAGCAGCGTTA	0.74	0.15	0	0	0.89
CATTGAGCAAGCAGCG	0.18	0	0	0	0.18
CATTGAGCAAGCAGCGTTAC	1.29	0	0.32	0	1.61
ATTGAGCAAGCAGCGTTACA	0.18	0	0	0	0.18
GCAAGCAGCGTTACAAGAG	0.18	0	0	0	0.18
TCCTCTTTGTAATGTTTCTTGCTCAAATGAGTATCCAGCCACAGTTTGCTGCGCTTGCCATATATATATATATATATATATAGCGCTGGTCTTCTGCAATTTCTGAGATGCTCATTGAGCAAGCAGCGTTACAAGAGGA					

mdm-miR828a

mdm-miR828a*: AGATGCTCATTGAGCAAGCAG

Data S2 List of all the identified microRNA* sequences in apple.

>mdm-miR156a*/mdm-miR156e*
GCUCACUUCUCUCUCCGUCAGC
>mdm-miR156ab*-1/mdm-miR156ac*-1
GCUCUCUAUGCUUCUGUCAUC
>mdm-miR156ab*-2/mdm-miR156ac*-2
GCUCUCUAUGCUUCUGUCAUCA
>mdm-miR156c*/mdm-miR156j*/mdm-miR156h*
GCUCACCUCUCUCUCUGUCAGC
>mdm-miR156d*/mdm-miR156l*
GCUCACUUCUCUUUCUGUCAGC
>mdm-miR156f*/mdm-miR156n*/mdm-miR156k*
GCUCAUGUCUCUUUCUGUCAGC
>mdm-miR156g*/mdm-miR156i*
GCUUAAUCUCUAUCUGUCGCC
>mdm-miR156w*-1
GCUCUCUUUCUUCUGUCAUC
>mdm-miR156w*-2
GCUCUCUUUCUUCUGUCAUCA
>mdm-miR156v*-1/mdm-miR156u*-1
GCUUUCUCUUCUUCUGUCAUC
>mdm-miR156v*-2/mdm-miR156u*-2
GCUUUCUCUUCUUCUGUCAUCA
>mdm-miR156o*
GCUUACUCUCUAUCUGUCACC
>mdm-miR159a*-1
AGCUCCUUUGAUUCAAAAAG
>mdm-miR159a*-2
AGCUCCUUUGAUUCAAAAAGC
>mdm-miR159b*-1
AGCUCCUUUGAUUCAAAAAG
>mdm-miR159b*-2
AGCUCCUUUGAUUCAAAAAGC
>mdm-miR159c*
AGGAGGGAGAGAGGGUUUUAC
>mdm-miR160d*/mdm-miR160b*
GCGUAUGAGGAGUCAAGCAUA
>mdm-miR160c*
GCGUAUGAGGAGCCAAGCAUA
>mdm-miR160a*
GCGUACAAGGAGCCAAGCAUA
>mdm-miR160e*
GCGUAUGAGGAGCCAUGCAUA
>mdm-miR162a*/mdm-miR162b*
GGAGGCAGCGGUUCAUCGAUC

>mdm-miR164e*/mdm-miR164f*
CAUGUGCCCCUCUCCCCAUC
>mdm-miR164d*
CACGUGCUCUUUCUCCAAC
>mdm-miR164c*
CACGUGCUCUUUCUCCAAC
>mdm-miR164a*
CAUGUGCUCUACCUCUCCAGC
>mdm-miR166f*/mdm-miR166b*
GGAAUGCUGUCUGGUUCGAGA
>mdm-miR166e*/mdm-miR166i*
GAAAUGUUGUCUGGUUCGAGA
>mdm-miR166d*
GGAAUGUUGUUUGGCUCGAGG
>mdm-miR166c*
GGAAUGUUGUCUGGUUCGAGA
>mdm-miR166a*/mdm-miR166h*/mdm-miR166g*
GGAAUGUUGUCUGGCUCGAGG
>mdm-miR167i*/mdm-miR167h*/mdm-miR167a*/mdm-miR167j*
AGAUCAUCUGGCAGUUUCACC
>mdm-miR167g*/mdm-miR167d*/mdm-miR167c*
GAUCAUGUGGUAGCUUCACC
>mdm-miR167f*
GAUCAUGUGGUCGCUUCACC
>mdm-miR167e*
GGUCAUGCUCUGACAGCCUCACU
>mdm-miR167b*
GGUCAUGCUCUGACAGCUUCACU
>mdm-miR168a*/mdm-miR168b*
CCCGCCUUGCAUCAACUGAAU
>mdm-miR169e*/mdm-miR169f*
UGACAGCCUCUUCUUCUCAUG
>mdm-miR169d*/mdm-miR169c*
GGCAGUCUCCUUGGCUAAU
>mdm-miR169b*
AGGCAGUCACGCCUUGGCGACG
>mdm-miR169a*
GGCAAGUUGCUCUUGGCUACA
>mdm-miR171m*
GGAUGUUGGAAUGGCUCAUC
>mdm-miR171i*/mdm-miR171k*/mdm-miR171j*
CGAUGUUGGUGAGGUUCAUC
>mdm-miR171i*
GUGAUAUUGGUUUUGGCUCAUA

>mdm-miR171h*
UGUUGGAAUGGCUCAAUCAA
>mdm-miR171g*
UGUUGGUAUGGUCAAUCAA
>mdm-miR171f*
GGAUUAUGGUCCGGUCAAUA
>mdm-miR171e*
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UGUUGGCCCGGUUCACUCAGA
>mdm-miR171b*/mdm-miR171a*
AGGUAUUGACGCGCCUCAAUU
>mdm-miR171n*
GGAUGUUGGUAUGGUCAAUC
>mdm-miR172n*/mdm-miR172c*-2
GGAGCAUCAUCAAGAUUCACA
>mdm-miR172i*/mdm-miR172j*/mdm-miR172k*/mdm-miR172l*/mdm-miR172m*/mdm-miR172n*/mdm-miR172o*/mdm-miR172p*/mdm-miR172q*/mdm-miR172r*/mdm-miR172s*/mdm-miR172t*/mdm-miR172u*/mdm-miR172v*/mdm-miR172w*/mdm-miR172x*/mdm-miR172y*/mdm-miR172z*
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>mdm-miR172e*
GCCGCAUCACCAAGAUUCUUA
>mdm-miR172c*-1
GAGCAUCAUCAAGAUUCACA
>mdm-miR172b*-1
GAGCAUCUUCAAGAUUCACA
>mdm-miR172b*-2/mdm-miR172o*
GGAGCAUCUUCAAGAUUCACA
>mdm-miR319b*
AGAGCUUUCUUCAGUCCACUC
>mdm-miR319a*
AGAGCUUUCUUAGUCCAUC
>mdm-miR319c*
AGCUGCUGACUCGUUGGUUCA
>mdm-miR390e*/mdm-miR390f*
CGCUAUCCAUCUUGGGCUUCA
>mdm-miR390d*
GCUAUCCAUCCUGAGUUUCA
>mdm-miR390c*
UGCUAUCCAUCCUGAGUUUCA
>mdm-miR390b*/mdm-miR390a*
CGCUAUCCAUCCUGAGUUUCA
>mdm-miR393e*/mdm-miR393d*/mdm-miR393c*/mdm-miR393b*/mdm-miR393a*/mdm-miR393f*
AUCAUGCGAUCCCUUCGGACG
>mdm-miR394a*-1/mdm-miR394b*-1
AGGUGGGCAUACUGCCAAC

>mdm-miR394a*-2/mdm-miR394b*-2
AGGUGGGCAUACUGCCAACAG
>mdm-miR395g*/mdm-miR395d*/mdm-miR395i*
GUUCCCUUGACCACUUCAUUG
>mdm-miR395f*/mdm-miR395e*/mdm-miR395c*
GUUCCCCCGAACACUUCAUUA
>mdm-miR395a*-1
GUUCCCCCGAAUACUUCAU
>mdm-miR395a*-2
GUUCCCCCGAAUACUUCAUUA
>mdm-miR396f*/mdm-miR396g*
GUUCAAGAAAGCUGUGAAAAA
>mdm-miR396e*-1/mdm-miR396d*-1/mdm-miR396c*-1
CUCAAGAAAGCUGUGGGAGA
>mdm-miR396e*-2/mdm-miR396d*-2/mdm-miR396c*-2
GCUCAAGAAAGCUGUGGGAGA
>mdm-miR396b*-1/mdm-miR396a*-1
UUCAAUAAAGCUGUGGGAAG
>mdm-miR396b*-2/mdm-miR396a*-2
GUUCAAUAAAGCUGUGGGAAG
>mdm-miR397a*
UCGUCAGCUGUGCACCCAAU
>mdm-miR397b*
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>mdm-miR398c*
GGAGUGACCUGAGAUCACAU
>mdm-miR399i*/mdm-miR399j*
GGGCUCCUCCUCUUGGCAGG
>mdm-miR399h*/mdm-miR399g*
GAGCAAAGUCUCCUCUGGCAUG
>mdm-miR399f*/mdm-miR399e*
GGGCAAAGUCUCUUCUGGCAUG
>mdm-miR399d*
GGGCUUCUCUCCGAUGGCAGG
>mdm-miR399b*
GUGCAAUUCUCCUUUGGCAGA
>mdm-miR399a*
GUGCAAUUCUCCUUUGGCAGA
>mdm-miR403a*
AGUUUGUGCGUGAAUCGAACC

>mdm-miR403b*
AGUUUGUGCCUGAAUCAAAACC
>mdm-miR408b*/mdm-miR408d*
UGCACUGCCUCUCCCCUGG
>mdm-miR408a*
CAGGGAAGAGGUAGAGCAUGG
>mdm-miR447*
CGAAGACUUGGGGAGAGUGA
>mdm-miR482c*
AGUGGAAGGGUAGGAAAGAAG
>mdm-miR482b*
AAUGGAAGGGUAGGAAAGAAG
>mdm-miR482d*
UCUUUCCUAUCCCUCCCAUCC
>mdm-miR535a*
GUGCCCUCUCUUGUUGUCAUU
>mdm-miR535d*
GUGCUCUUUCUUGUUGUCAUA
>mdm-miR828a*
AGAUGCUCAUUUGAGCAAGCAG
>mdm-miR827*
UUUGUUGCUGGUCACCUAGUU
>mdm-miR858*
AGGUCGAACAGACAGCGAACC
>mdm-miR2118b*/mdm-miR2118c*
GGACUUAGUUGCUCGGUGAGA
>mdm-miR2118a*
GGACUUAGUAGCUCGGUGAGA
>mdm-miR2111b*/mdm-miR2111a*
GUCCUUGGGAUGCAGAUUACC
>mdm-miR1511*
UGUGGUAUCAGGACUAUGUUA
>mdm-miR5225b*/mdm-miR5225a*
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>mdm-miR3627c*-1
GUUGCCAUCUCUCCUGUGACC
>mdm-miR3627c*-2
UUGCCAUCUCUCCUGUGACCA
>mdm-miR5225c*
UUCAUCUCUCCUCGACAGAAG
>mdm-miR7121g*/mdm-miR7121e*/mdm-miR7121d*/mdm-miR7121h*
AGGGUGGUUACCAUGGGAUG
>mdm-miR7121c*
AGGGUGAUUACCAAGGUGAUG

>mdm-miR7121a*
AGGGUGAUUAACAAAGGGAUG
>mdm-miR7120b*/mdm-miR7120a*
ACAGUCUGACAAUAUAACGUG
>mdm-miR7127a*
UGACAAAUUGGAUGAGUAUUC
>mdm-miR7126*
UUGCGUCCACUGAUUCUUUCG
>mdm-miR7124b*/mdm-miR7124a*
AAUAAAGUUGAUUUGGUGUG
>mdm-miR7123b*/mdm-miR7123a*
CUUUUACCUAUCCCAUUCUGU
>mdm-miR7122b*/mdm-miR7122a*
ACCGUGUUUUUCUGUAUAAAG
>mdm-miR7128*
UUAUUAAGUGUAAUGAUUGG

Data S3 Pre-miRNAs (precursor microRNAs) with perfect-match degradome signatures.

>mdm-MIR156a MI0022971

AGTTGACAGAAGAGAGTGAGCACACACAGGCGGYAATTGTATAAAATCATACYTTTGGGCGGTGCGTGCTCACTTCTCTCTCCGTCAGCT

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGCAC	25.2 3
GSM880656_apple_degradome	TTGACAGAAGAGAGTGAGCAC	1.96 2
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGC	1.58 3
GSM880656_apple_degradome	GACAGAAGAGAGTGAGCAC	0.05 4

>mdm-MIR156aa MI0022997

TGCTGACAGAAGATAGAGAGCACAGATGAGGAAATGCAAGAACAAGGCAGCATCTCCATCCTTTGTGCTCTCTATTCTTCTGTCAACA

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	CTGACAGAAGATAGAGAGC	0.76 2
GSM880656_apple_degradome	TGACAGAAGATAGAGAGC	0.44 3
GSM880656_apple_degradome	CTGACAGAAGATAGAGAGCAC	0.22 2

>mdm-MIR156ab MI0022998

AGGAGTGGGGAAGTGGGAGAGAGAAAGAGCAGGGAGTGATGATACATTGTTGACAGAAGATAGAGAGCACAGATGGATGACTTGCAATTGACTATGCATCTCACTCCTTTGTGCTCTCT
ATGCTTCTGTCATCACCTCGTTATATCTAGCTTCCTTGCCCTCTCTCCACACCCGTGCACCT

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TTGACAGAAGATAGAGAGC	6.26 49
GSM880656_apple_degradome	TTGACAGAAGATAGAGAGCAC	6.15 49
GSM880656_apple_degradome	TGACAGAAGATAGAGAGC	0.44 50
GSM880656_apple_degradome	TTGACAGAAGATAGAGAG	0.05 49

>mdm-MIR156ac MI0022999

CAATCTCTAATCATATTATAGTATTAATTTAGGGTAAGGACTAGGGAACTGGGAGAGAGAAAGAGCAGGGAGTGGTGATACGTTGTTGACAGAAGATAGAGAGCACAGATGGATGACTT
GCAATGGACTATGCATCTCACTCCTTTGTGCTCTCTATGCTTCTGTCATCACCTAGCTATATCCAGCTTCCCTGCCCTCCCCACACCCCTGCACCTCCCATATTAATCTAATTCATAAAATG
ATTATTTGATTG

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	6.26	86
GSM880656_apple_degradome	6.15	86
GSM880656_apple_degradome	0.44	87
GSM880656_apple_degradome	0.05	86

>mdm-MIR156b MI0022972

TGACAGAAGAGAGTGAGCACACATGGTACTTTCTTGCATGCTGGGTTTCATGYTCGAAGCTTTGCGTGCTCACTCTCTATCTGTCA

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	25.2	0
GSM880656_apple_degradome	1.58	0
GSM880656_apple_degradome	0.05	1

>mdm-MIR156c MI0022973

GTAGTTGACAGAAGAGAGTGAGCACACACAGGCAGCAATTGTATAAAAATCATACCCCTTGGGCGGTGCGTGCTCACCTCTCTCTGTGTCAGCTGC

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	25.2	5 TGACAGAAGAGAGTGAGCAC
GSM880656_apple_degradome	1.96	4 TTGACAGAAGAGAGTGAGCAC
GSM880656_apple_degradome	1.58	5 TGACAGAAGAGAGTGAGC
GSM880656_apple_degradome	0.05	6 GACAGAAGAGAGTGAGCAC

>mdm-MIR156d MI0022974

TGACTAGTAGCGAGTGGTGGTGACAGAAGAGAGTGAGCACACTCGGGCAATTGTATAAAGCCATACCTTTGCGTGATGTGTGCTCACTTCTCTTTCTGTCAGCCGCACGCCGCCYCCG
CCCA

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	25.2	21 TGACAGAAGAGAGTGAGCAC
GSM880656_apple_degradome	1.58	21 TGACAGAAGAGAGTGAGC
GSM880656_apple_degradome	0.05	22 GACAGAAGAGAGTGAGCAC

>mdm-MIR156e MI0022975

AGTTGACAGAAGAGAGTGAGCACACACAGGCGGCAATTGTATAAAAATCATACCTTTGGGCGGTGCGTGCTCACTTCTCTCTCCGTCAGCT

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	25.2	3 TGACAGAAGAGAGTGAGCAC
GSM880656_apple_degradome	1.96	2 TTGACAGAAGAGAGTGAGCAC
GSM880656_apple_degradome	1.58	3 TGACAGAAGAGAGTGAGC
GSM880656_apple_degradome	0.05	4 GACAGAAGAGAGTGAGCAC

>mdm-MIR156f MI0022976

TGGCGATTGGGTAGTTATATTATTGTGGTGAGTGTTAATTTGGTTGGGACTTAGGGTAGAAATTGACAGAAGAGAGTGAGCACACAGAGGCACTTGCCATAAAGCGTATGCCATTGCTTTT
GCGTGCTCATGTCTCTTTCTGTCAGCTTCCCCATTTCCACTGCCGGATTAATATTAAGTTGTTTCATTTTAAATTCCTTCTCATCCCCA

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGCAC	25.2 63
GSM880656_apple_degradome	TTGACAGAAGAGAGTGAGCAC	1.96 62
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGC	1.58 63
GSM880656_apple_degradome	GACAGAAGAGAGTGAGCAC	0.05 64

>mdm-MIR156g MI0022977

GGCGGTGACAGAAGAGAGTGAGCACACATGGTATTTTRITTCATGCTGGGTTTCATGCTCGAAGCTTTGCGTGCTTAATCTCTATCTGTCGCCCC

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGCAC	25.2 5
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGC	1.58 5
GSM880656_apple_degradome	GACAGAAGAGAGTGAGCAC	0.05 6

>mdm-MIR156h MI0022978

GTAGTTGACAGAAGAGAGTGAGCACACACAGGCAGCAATTGTATAAAATCATAACCTTGGGCGGTGCGTGCTCACCTCTCTCTGTCAGCTGC

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGCAC	25.2 5
GSM880656_apple_degradome	TTGACAGAAGAGAGTGAGCAC	1.96 4
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGC	1.58 5
GSM880656_apple_degradome	GACAGAAGAGAGTGAGCAC	0.05 6

>mdm-MIR156i MI0022979

GGTGACAGAAGAGAGTGAGCACACATGGTATTTTTRTTGCATGCTGGGTTTCATGCTCGAAGCTTTGCGTGCTTAATCTCTATCTGTCGCC

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGCAC	25.2 2
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGC	1.58 2
GSM880656_apple_degradome	GACAGAAGAGAGTGAGCAC	0.05 3

>mdm-MIR156j MI0022980

GTTGACAGAAGAGAGTGAGCACACACAGGCAGCAATTGTATAAAATCATAACCTTTGGGCGGTGCGTGCTCACCTCTCTCTGTCAGC

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGCAC	25.2 2
GSM880656_apple_degradome	TTGACAGAAGAGAGTGAGCAC	1.96 1
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGC	1.58 2
GSM880656_apple_degradome	GACAGAAGAGAGTGAGCAC	0.05 3

>mdm-MIR156k MI0022981

GTGTTAATTTGGTTGGGACTTAGGGTAGAAATTGACAGAAGAGAGTGAGCACAYAGAGGCACTTTGCCATAAAGCGTATGCCATTGCTTTTGCCTGCTCATGTCTCTTTCTGTCAGCTTCC
CCATTTCCACYGCCGGATTAATAT

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGCAC	25.2 32
GSM880656_apple_degradome	TTGACAGAAGAGAGTGAGCAC	1.96 31
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGC	1.58 32
GSM880656_apple_degradome	GACAGAAGAGAGTGAGCAC	0.05 33

>mdm-MIR156l MI0022982

GAGATAGAGAGAGAGACAGAGGCAGAGAGAGAGAAGGTGAATGGATGAGGGAGAGTAGTAGATCACTGGACTAGTAGCGAGTGGTGGTGACAGAAGAGAGTGAGCACACTCGGGCA
ATTGTATAAAGCCATACCTTTGCGTGATGTGTGCTCACTTCTCTTTCTGTCAGCCGCACGCCCYCCGCCYCCGCCACCGCCACCGCCTGCGCTGCCCTCCCTTTCATTATGTCTTTCTG
TGTTCCTCCTCTCGATCTC

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGCAC	25.2 87
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGC	1.58 87
GSM880656_apple_degradome	GACAGAAGAGAGTGAGCAC	0.05 88

>mdm-MIR156m MI0022983

AGGGTAAAGGACGGTGACAGAAGAGAGTGAGCACACATGGTATTTTCTTGCATGCTGGGTTTCATGCTTGAAGCTTTGTGTGCTTACTCTCTATCTGTCCACCCACCTCTCTCT

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGCAC	25.2 14
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGC	1.58 14
GSM880656_apple_degradome	GCTTACTCTCTATCTGTC	1.03 80
GSM880656_apple_degradome	GACAGAAGAGAGTGAGCAC	0.05 15

>mdm-MIR156n MI0022984

TTAATCTGGTTGGACTTAGGGTAGAAATTGACAGAAGAGAGTGAGCACACAGAGGCACTTGCCATAAAGCGTATGCCATTGCTTTTGCCTGCTCATGTCTCTTTCTGTCAGCTTCCCATT
TCCACTGCCGGATTAA

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGCAC	25.2 28
GSM880656_apple_degradome	TTGACAGAAGAGAGTGAGCAC	1.96 27
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGC	1.58 28
GSM880656_apple_degradome	GACAGAAGAGAGTGAGCAC	0.05 29

>mdm-MIR156o MI0022985

GACGGTGACAGAAGAGAGTGAGCACACATGGTATTTTCTTGCATGCTGGGTTCATGCTTGAAGCTTTGCGTGCTTACTCTCTATCTGTCAACCATC

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGCAC	25.2 5
GSM880656_apple_degradome	TGACAGAAGAGAGTGAGC	1.58 5
GSM880656_apple_degradome	GCTTACTCTCTATCTGTC	1.03 71
GSM880656_apple_degradome	GCTTACTCTCTATCTGTCAC	0.6 71
GSM880656_apple_degradome	GACAGAAGAGAGTGAGCAC	0.05 6

>mdm-MIR156p MI0022986

TGAATTTGCTGACAGAAGATAGAGAGCACAGATGAGGAAATGCAAAAACAAGGCAGCATCTCCATCCTTTGTGCTCTCTATTCTTCTGTCAACACCTTCA

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	CTGACAGAAGATAGAGAGC	0.76 8
GSM880656_apple_degradome	TGACAGAAGATAGAGAGC	0.44 9
GSM880656_apple_degradome	CTGACAGAAGATAGAGAGCAC	0.22 8

>mdm-MIR156q MI0022987

TGCTGACAGAAGATAGAGAGCACAGATGAGGAAATGCAAGAACAAGGCAGCATCTCCATCCTTTGTGCTCTCTATTCTTCTGTCAACA

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	CTGACAGAAGATAGAGAGC	0.76 2
GSM880656_apple_degradome	TGACAGAAGATAGAGAGC	0.44 3
GSM880656_apple_degradome	CTGACAGAAGATAGAGAGCAC	0.22 2

>mdm-MIR156r MI0022988

TGAATTTGCTGACAGAAGATAGAGAGCACAGATGAGGAAATGCAAAAACAAGGCAGCATCTCCATCCTTTGTGCTCTCTATTCTTCTGTCAACACCTTCA

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome CTGACAGAAGATAGAGAGC 0.76 8

GSM880656_apple_degradome TGACAGAAGATAGAGAGC 0.44 9

GSM880656_apple_degradome CTGACAGAAGATAGAGAGCAC 0.22 8

>mdm-MIR156s MI0022989

TGCTGACAGAAGATAGAGAGCACAGATGAGGAAATGCAAGAACAAGGCAGCATCTCCATCCTTTGTGCTCTCTATTCTTCTGTCAACA

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome CTGACAGAAGATAGAGAGC 0.76 2

GSM880656_apple_degradome TGACAGAAGATAGAGAGC 0.44 3

GSM880656_apple_degradome CTGACAGAAGATAGAGAGCAC 0.22 2

>mdm-MIR156t MI0022990

ATGTTGACAGAAGAGAGAGAGCACAACCCGCCATCGGGCTAAGGAGAGTCTTTACGTTGCTGGGAGTGTGCTTTCTCYTCYTCTGTCATCAT

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome TTGACAGAAGAGAGAGAGCAC 1.41 3

GSM880656_apple_degradome TTGACAGAAGAGAGAGAGC 1.2 3

GSM880656_apple_degradome TGACAGAAGAGAGAGAGC 0.05 4

>mdm-MIR156u MI0022991

ATGTTGACAGAAGAGAGAGAGCACAACCCGCCATCGGGCTAAGGAGAGTCTTTACGTTGCTGGGAGTGTGCTTTCTCTTCTTCTGTCATCAT

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome TTGACAGAAGAGAGAGAGCAC 1.41 3

GSM880656_apple_degradome TTGACAGAAGAGAGAGAGC 1.2 3

GSM880656_apple_degradome TGACAGAAGAGAGAGAGC 0.05 4

>mdm-MIR156v MI0022992

ATGTTGACAGAAGAGAGAGAGCACAACCCGCCATCGGGCTAAGGAGAGTCTTTACGTTGCTGGGAGTGTGCTTTCTCTTCTTCTGTCATCAT

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome TTGACAGAAGAGAGAGAGCAC 1.41 3

GSM880656_apple_degradome TTGACAGAAGAGAGAGAGC 1.2 3

GSM880656_apple_degradome TGACAGAAGAGAGAGAGC 0.05 4

>mdm-MIR156w MI0022993

TGTTGACAGAAGAGAGAGAGCACAAACCCRCCATCGGCTAAAGAGAGTCTTTTCCGTTGTTGGGAGTGTGCTCTCTTTTCTTCTGTCATCA

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	1.41	2 TTGACAGAAGAGAGAGAGCAC
GSM880656_apple_degradome	1.2	2 TTGACAGAAGAGAGAGAGC
GSM880656_apple_degradome	0.05	3 TGACAGAAGAGAGAGAGC

>mdm-MIR156x MI0022994

TGAATTTGCTGACAGAAGATAGAGAGCACAGATGAGGAAATGCAAAAACAAGGCAGCATCTCCATCCTTTGTGCTCTCTATTCTTCTGTCAACACCTTCA

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	0.76	8 CTGACAGAAGATAGAGAGC
GSM880656_apple_degradome	0.44	9 TGACAGAAGATAGAGAGC
GSM880656_apple_degradome	0.22	8 CTGACAGAAGATAGAGAGCAC

>mdm-MIR156y MI0022995

TGCTGACAGAAGATAGAGAGCACAGATGAGGAAATGCAAGAACAAGGCAGCATCTCCATCCTTTGTGCTCTCTATTCTTCTGTCAACA

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	0.76	2 CTGACAGAAGATAGAGAGC
GSM880656_apple_degradome	0.44	3 TGACAGAAGATAGAGAGC
GSM880656_apple_degradome	0.22	2 CTGACAGAAGATAGAGAGCAC

>mdm-MIR156z MI0022996

TGAATTTGCTGACAGAAGATAGAGAGCACAGATGAGGAAATGCAAAAACAAGGCAGCATCTCCATCCTTTGTGCTCTCTATTCTTCTGTCAACACCTTCA

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome CTGACAGAAGATAGAGAGC 0.76 8

GSM880656_apple_degradome TGACAGAAGATAGAGAGC 0.44 9

GSM880656_apple_degradome CTGACAGAAGATAGAGAGCAC 0.22 8

>mdm-MIR160c MI0023006

TATGTGCCTGGCTCCCTGTATGCCATTTGCAGAGTCCCACCGAACAGCGATGGCCTCTGTGGATGGCGTATGAGGAGCCAAGCATATA

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome GCGTATGAGGAGCCAAGCAT 0.22 65

GSM880656_apple_degradome AGAGTCCCACCGAACAGCGA 0.11 30

GSM880656_apple_degradome TTGCAGAGTCCCACCGAACAG 0.05 26

>mdm-MIR167f MI0023031

TCTCTGAAGCCTCCAAGATGAAAGAAGAAGACAGAAAGAAGGAGAAGAAGAATGACCTAGCTACTTGCTATCTTATCGTGCACCTCCAATAGTTGAAGCTGCCAGCATGATCTAAGCTTTCT
TTGTACATAGGACAGGCTAGATCATGTGGTTCGCTTACCTGTTGAATGAAGCACGAGAAAACCCTAGATTCACAGCCATCGACCTCCTCAAGAACCCATTAGGGTTTTTTTTTTTTTTTTC
GGAGA

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome TCCAAGATGAAAGAAGAAGACAG 0.38 11

GSM880656_apple_degradome AAGATGAAAGAAGAAGACAGA 0.27 14

GSM880656_apple_degradome CTCCAAGATGAAAGAAGA 0.11 10

>mdm-MIR169a MI0023038

AAGTCTCAGAGTGTTTGCATCAAGCAGAAGAGATCGGAATGCAGCCAAGGATGACTTGCCGGCTTTACAGTATCTTGCTCTAATCAGCAGAGTCTTGCCGGCAAGTTGCTCTTGGCTAC
ATTTAGCTCTCTTCCTCTAATGTCAGCCTCTGAGATTT

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome CTCTAATGTCAGCCTCTGAG 0.44 134

>mdm-MIR171a MI0023042

GAAGGTATTGACGCGCCTCAATTTGAACGRGTGGCTYATATTGGAGACTTAACCATGCGATTCTGATTGAGCCGCGTCAATATCTCC

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome AACCATGCGATTCTGATTGAG0.16 50

>mdm-MIR171b MI0023043

AAGAAGGTATTGACGCGCCTCAATTTGAACGCGTGGCTAATATTGGAGACTTAACCATGCGATTCTGATTGAGCCGCGTCAATATCTCCTCTT

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome AACCATGCGATTCTGATTGAG0.16 52

>mdm-MIR390b MI0023074

GTGTGGAAGAATCTGTTAAGCTCAGGAGGGATAGCGCCATTCTCGGTTTGGTTTAACCACATATAGCGCTATCCATCCTGAGTTTCATGGCTTCTTCTTACAC

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome AGAATCTGTTAAGCTCAGGA 0.27 7

GSM880656_apple_degradome ATATAGCGCTATCCATCCTGA 0.27 60

>mdm-MIR390e MI0023077

AGTGTGGAAGAATCTGTTAAGCTCAGGAGGGATAGCGCCATTCTCGGTTTGGTTTAACCACGTATCGCGCTATCCATCTTGGGCTTCATGGCTTCTTCTTACT

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome AGAATCTGTTAAGCTCAGGA 0.27 8

>mdm-MIR390f MI0023078

AGTGTGGAAGAATCTGTTAAGCTCAGGAGGGATAGCGCCATTCTCGGTTTGGTTTAACCACGTATCGCGCTATCCATCTTGGGCTTCATGGCTTCTTCTTACT

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome AGAATCTGTTAAGCTCAGGA 0.27 8

>mdm-MIR396a MI0023093

GATCCTCTTTGTATTCTTCCACAGCTTTCTTGAACAGCATCCATGTATGACGAGATCGACCGATCTTTGGAGTGAGTCGACTCAGTCTCTCTATTCTCTTAACTTGGTTTGCGGTTCAATAA
AGCTGTGGGAAGATACAGATAGGCTC

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TTCCACAGCTTTCTTGAACAG	28.79 16
GSM880656_apple_degradome	TCCACAGCTTTCTTGAACAG	4.14 17
GSM880656_apple_degradome	TTCCACAGCTTTCTTGAACA	0.22 16
GSM880656_apple_degradome	CCACAGCTTTCTTGAACAG	0.22 18
GSM880656_apple_degradome	AGCTGTGGGAAGATACAGAT	0.11 123
GSM880656_apple_degradome	TTCCACAGCTTTCTTGAA	0.05 16

>mdm-MIR396b MI0023094

GAAGATGATGATCCTCTTTGTATTCTTCCACAGCTTTCTTGAAGTGCATCCATCTATGGCGAGATCGACCGATCTTTGGAGTGAGTCGACTCAGTATCTCTATTCCCCTTAACTTGGTTTGCG
GTTCAATAAAGCTGTGGGAAGATACAGATAGGCTCAATAAAATTC

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TTCCACAGCTTTCTTGAAGTGC	0.44 25
GSM880656_apple_degradome	AGCTGTGGGAAGATACAGAT	0.11 132
GSM880656_apple_degradome	TTCCACAGCTTTCTTGAA	0.05 25

>mdm-MIR396c MI0023095

TTGCCATGCTTTTCCACAGCTTTCTTGAAGTCAATTCTCTGCTGTCTAAATMTCTTTCAGGACTAGCACCATGGAAGCTCAAGAAAGCTGTGGGAGACCATGGCAA

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TTCCACAGCTTTCTTGAAGTCA	1.63 11
GSM880656_apple_degradome	TTCCACAGCTTTCTTGAA	0.05 11

>mdm-MIR396d MI0023096

GCCATGCTTTTCCACAGCTTTCTTGAACCTCAATTCTMTGCTGTCTAAATCTCTTTCCGGATTAGCACCATGGAAGCTCAAGAAAGCTGTGGGAGACCATGGC

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome TTCCACAGCTTTCTTGAACCT 1.63 9

GSM880656_apple_degradome TTCCACAGCTTTCTTGAA 0.05 9

>mdm-MIR396e MI0023097

TTGCCATGCTTTTCCACAGCTTTCTTGAACCTCAATTCTCTGCTGTCTAAATKTCTTTTCAGGACTAGCACCATGGAAGCTCAAGAAAGCTGTGGGAGACCATGGCAA

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome TTCCACAGCTTTCTTGAACCT 1.63 11

GSM880656_apple_degradome TTCCACAGCTTTCTTGAA 0.05 11

>mdm-MIR396f MI0023098

GTGCACATACAGATGATCCTCCCTGTAATTTTCCACGGCTTTCTTGAACCTGTGCAGTTTCCAGAAGAATTAACCTGGCAGAAATTTTTCATGCAGATACAAAAACAGTTCAAGAAAGCTGT
GAAAAACCACCGGCAGGATCTGAGTTGTTTCAT

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome CCACGGCTTTCTTGAACCTGT 0.22 32

>mdm-MIR396g MI0023099

GATCCTCCTTGRGATTTCCACGGCTTTCTTGAAGTGTGCAGTGTGCAGAAGAGTTAAACTGGCAGAAATTTTCATGCAGTTACATAAACAGTTCAAGAAAGCTGTGAAAAACCACAGG
CAGGATT

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome CCACGGCTTTCTTGAAGTGT 0.22 18

>mdm-MIR398b MI0023103

GGTAGAGGGGTTCCACAGGAGTGACCTGAGATCACATGTAGCATTTATGTATTGCGCTTGATGTGTTCTCAGGTCGCCCTGCGGTACCTTCTCTACC

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome CCCCTGCGGTACCTTCTCT 0.22 76

>mdm-MIR398c MI0023104

GCGGTAGAGGGGTTCTGCAGGAGTGACCTGAGATCACATATGGCGTTATGTGTTGCGCTTGATGTGTTCTCAGGTCGCCCTGCGGTACCTTCTCTACCAC

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome GCGGTAGAGGGGTTCTGCAGG 0.44 0

GSM880656_apple_degradome CCCCTGCGGTACCTTCTCT 0.22 77

>mdm-MIR399b MI0023106

TGAATAACAGTGCAAATCTCCTTTGGCAGAAATGATTCTGGTGCATTTACTCTTGAGTACTACCACTGGATATGCTTTCTGCCAAAGGAGAATTGCCCTGCAATTCA

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome ACTGGATATGCTTTCTGCC 0.27 64

>mdm-MIR482a MI0010695

GAGAAGAGGGAAAGGGAGATTGGAGCTGCTGGAAGTTTTAGGAATGGGCTGTTTGGGAAGAARGAAAATTACAAGAATAATTGTCTTGTGGGGTTTCTTCCCAAGCCCGCCCATTCCTA
TGATTTCCAGCTGTTCCCTCCCTTTCCCTTGTATCTC

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome GGAATGGGCTGTTTGGGAAGA 0.54 40

GSM880656_apple_degradome GAGATTGGAGCTGCTGGAAG 0.49 15

>mdm-MIR482c MI0023127

GGAATAGGAAGGCTTTGAGGAGGTTTATGGAGTGGAAGGGTAGGAAAGAAGTAACTTCCTTTTTTRGGTCTCAAATTCTGGAGATCGAATTTCTTTTCCCTAACCTCCCATTCCTTCAATTC
CTAAAGRITATCCCTTTTCC

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome GAGTGAAGGGTAGGAAAG 0.11 29

GSM880656_apple_degradome AGTGAAGGGTAGGAAAG 0.11 30

GSM880656_apple_degradome AGTGAAGGGTAGGAAAGA 0.05 30

>mdm-MIR827 MI0023132

TTTGACGACGTGGATATGTTTGGTTGCTGGTACCTAGTTATTCCATGGTTCATCCATCTGCTGGCTTCAATATATAAATTTGTGTTTGTATATGTTGTATATATAACATGCAGTATTGTATATTTGA
CCCATGGCGGACGTTCTGATTAGATGACCATCAACGAACACATTCATGATGCAAG

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome AGATGACCATCAACGAACAC 0.05 147

>mdm-MIR828a MI0023133

TCCTCTTTGTAATGTTTCTTGCTCAAATGAGTATTCCAGCCACAGTTTGCCTGCAGCTTGCATATATATATATATATATATAGCGCTGGTGCTTCTGCAATTCTGAGATGCTCATTGAGCAA
GCAGCGTTACAAGAGGA

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome ATATATATATATATATATAT 0.82 61

GSM880656_apple_degradome TATATATATATATATATATAT 0.44 62

GSM880656_apple_degradome GAGATGCTCATTGAGCAAG 0.27 106

GSM880656_apple_degradome ATATATATATATATATATAT 0.22 61

GSM880656_apple_degradome GGTGCTTCTGCAATTCTGAG 0.16 89

GSM880656_apple_degradome GTGCTTCTGCAATTCTGAGA 0.05 90

GSM880656_apple_degradome ATATATATATATATATATATA 0.05 61

GSM880656_apple_degradome TATATATATATATATATATAT 0.05 62

>mdm-MIR1511 MI0023292

GTGGGTCTAGTTCTCATTCCATTGTGGTATCAGGACTATGTTATGTGAATGTTGTTACACAATATTGTGTTACTCATCTGTATAACCTAGCTCTGATACCATGAACAAAATTAAATCTACGACC
CAT

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	ATAACCTAGCTCTGATACC	0.44 81
GSM880656_apple_degradome	AGCTCTGATACCATGAACAA	0.16 88
GSM880656_apple_degradome	TCTGTATAACCTAGCTCTGA	0.16 76

>mdm-MIR2118c MI0023140

GAGGTTGAGGAAGTTATAGGACTTAGTTGCTCGGTGAGAAAACCTGATGATCTGGAGTCCTTCTCCTACCGATGCCACTAAGTCCCATGATTCCTCTCCCTC

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	TCCTTCTCCTACCGATGCC	0.65 57
GSM880656_apple_degradome	TCCTTCTCCTACCGATGCCA	0.05 57

>mdm-MIR7120a MI0023141

ATGTATGTATATGTATTTAAATGTTCTTTTGCCAGCCAATGTGGCTTGTTATATTGTCAGATTGTCAATCTGAACCTTTAATTACCATTAATTTACGTAATTAATGGTTCAGATTGACAGTCTGA
CAATATAACGTGCCAAACTGTTTGCAATTGAGCATTTTCATACATATATATATAT

GSMHTS_Seq	HTS_Count	MatchSite
GSM880656_apple_degradome	ACTGTTTGCAATTGAGCAT	0.11 141
GSM880656_apple_degradome	TGGTTCAGATTGACAGTCTGA	0.05 104

>mdm-MIR7120b MI0023142

ATGTATGTATATGTATTAATAAATGTTCTTTTGCCAGCCAATGTGGCTTGTTATATTGTCAGATTGTCAATCTGAACCTTAATTACCATTAATTTACGTAATTAATGGTTCAGATTGACAGTCTGA
CAATATAACGTGCCAAACTGTTTGGCAATTGAGCATTTTCATACATATATATATAT

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome ACTGTTTGGCAATTGAGCAT 0.11 141

GSM880656_apple_degradome TGGTTCAGATTGACAGTCTGA 0.05 104

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GSMHTS_Seq HTS_Count MatchSite

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>mdm-MIR7121e MI0023148

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GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome TGGTGATCGCCCTGCCCC 0.16 17

>mdm-MIR7121g MI0023150

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GSMHTS_Seq HTS_Count MatchSite

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>mdm-MIR7121h MI0023151

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GSMHTS_Seq HTS_Count MatchSite

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>mdm-MIR7127a MI0023168

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GTATTCCAAT

GSMHTS_Seq HTS_Count MatchSite

GSM880656_apple_degradome CAGCTAGAACAACCTCTGACA 0.33 93

GSM880656_apple_degradome ACAGCTAGAACAACCTCTGACA 0.16 92

>mdm-MIR7127b MI0023169

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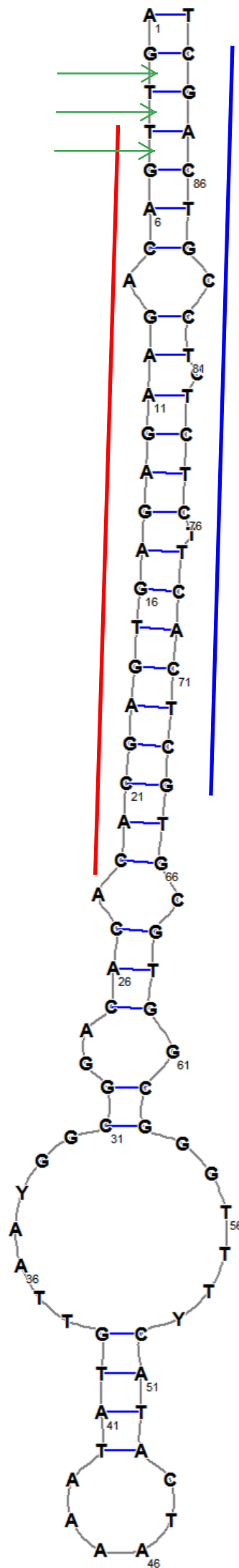
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GSM880656_apple_degradome CAGCTAGAACACTCTGACA 0.33 98

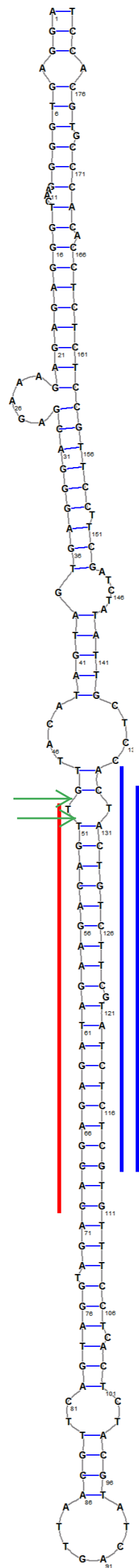
GSM880656_apple_degradome ACAGCTAGAACACTCTGACA 0.16 97

Data S4 Degradome signature-supported cleavage sites at either end of a mature microRNA (miRNA) strand during DCL1 (Dicer-like 1)-mediated two-step processing. The mature miRNAs (based on miRBase release 19) and the identified miRNA*s were denoted by red and blue lines on the pre-miRNAs (precursor microRNAs) respectively. The cleavage sites supported by degradome signatures were indicated by green arrows. The secondary structures of the pre-miRNAs were predicted by using RNAsHapes.

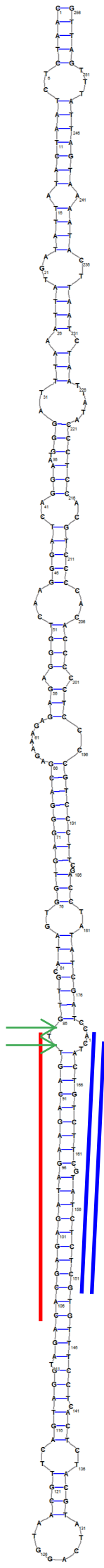
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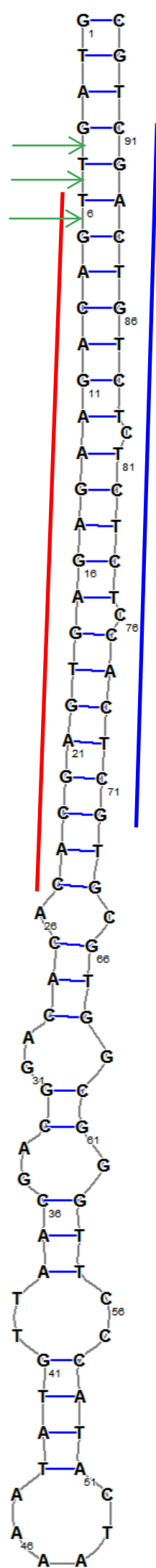
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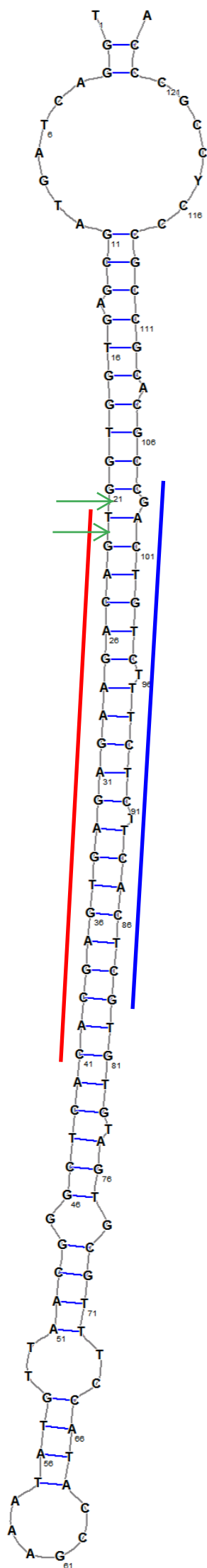
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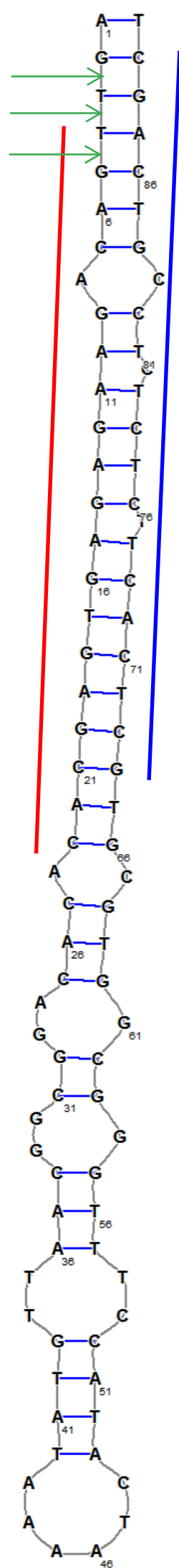
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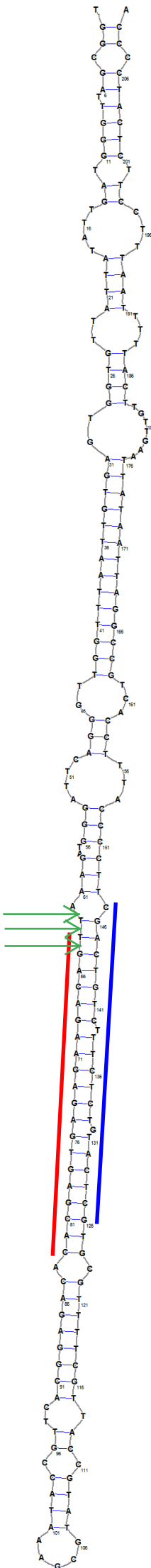
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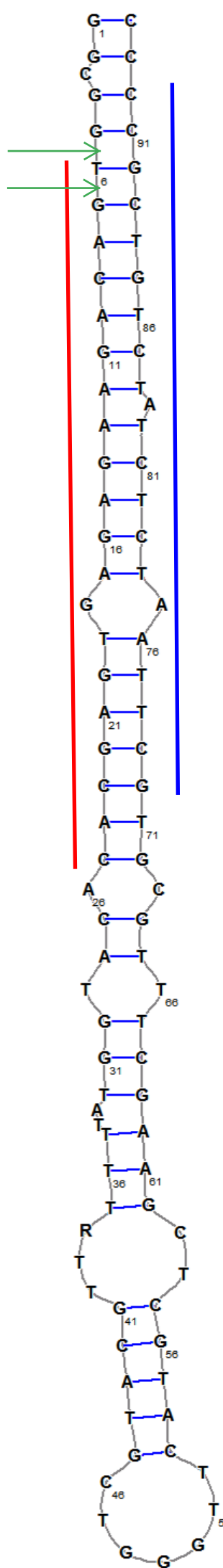
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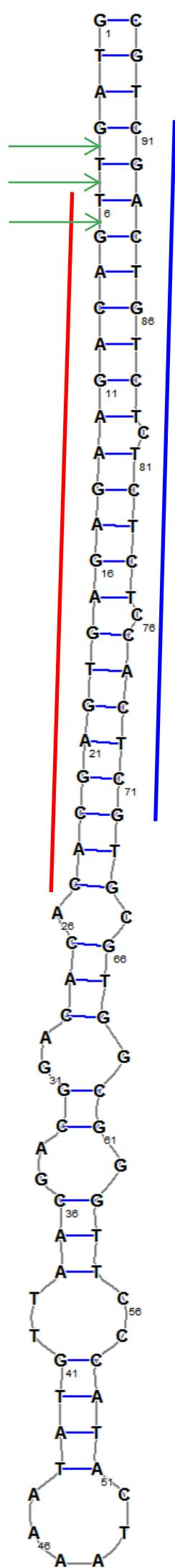
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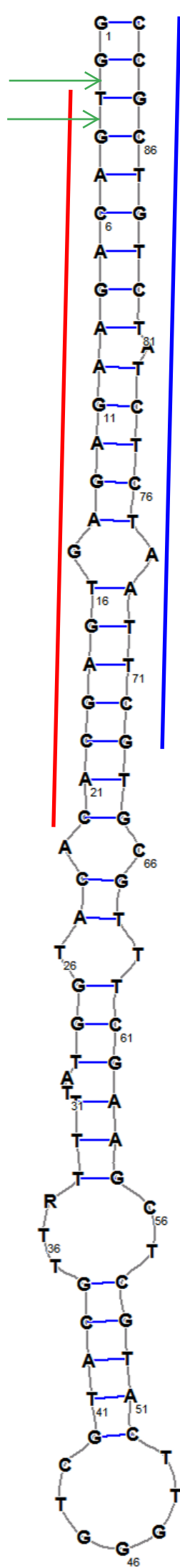
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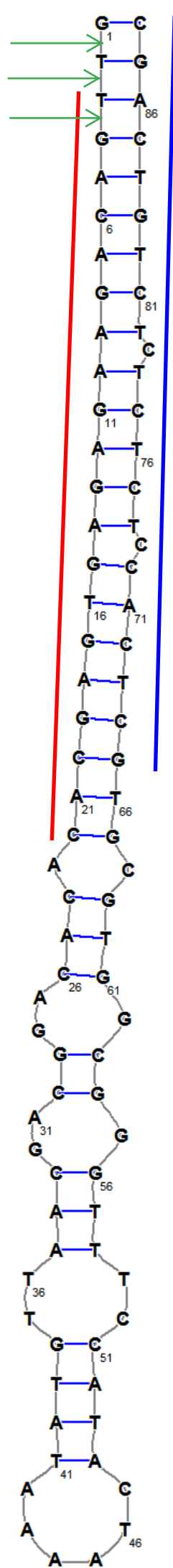
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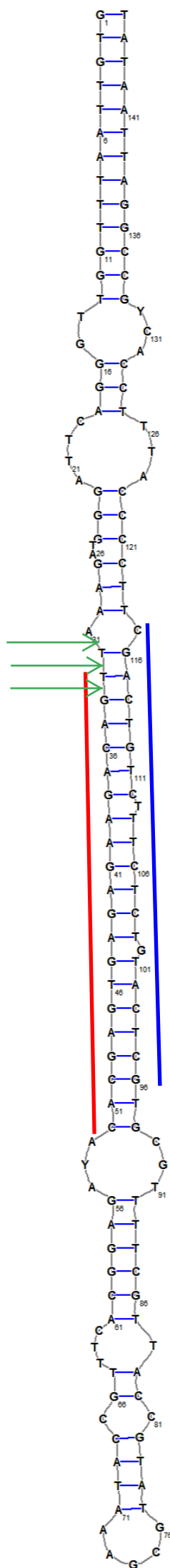
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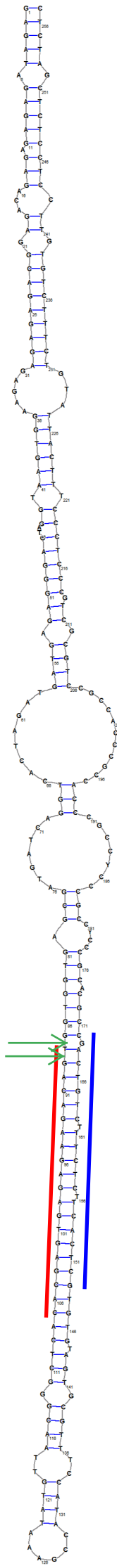
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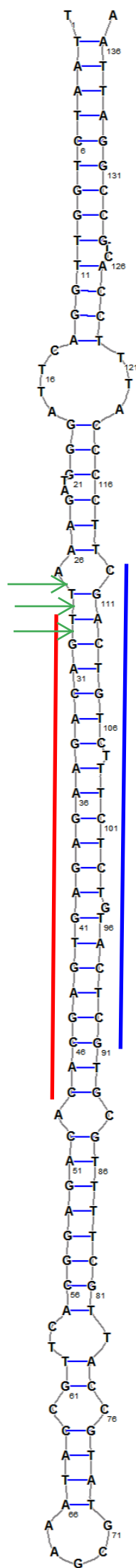
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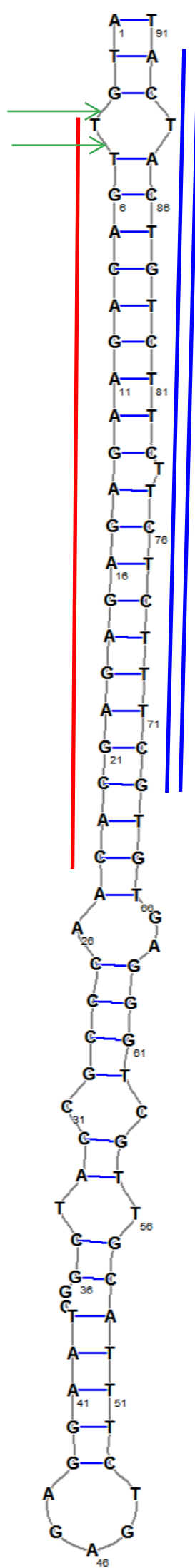
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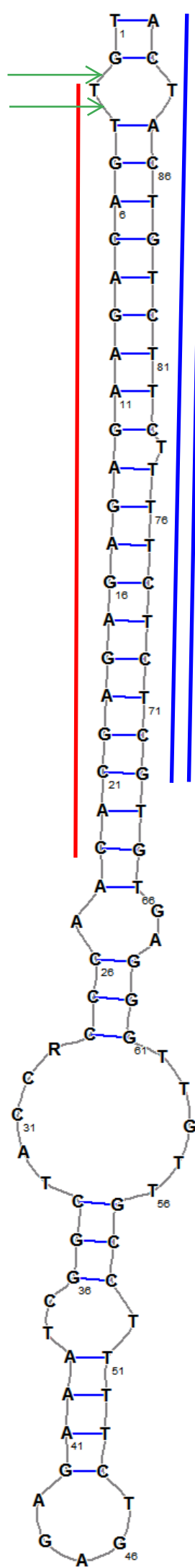
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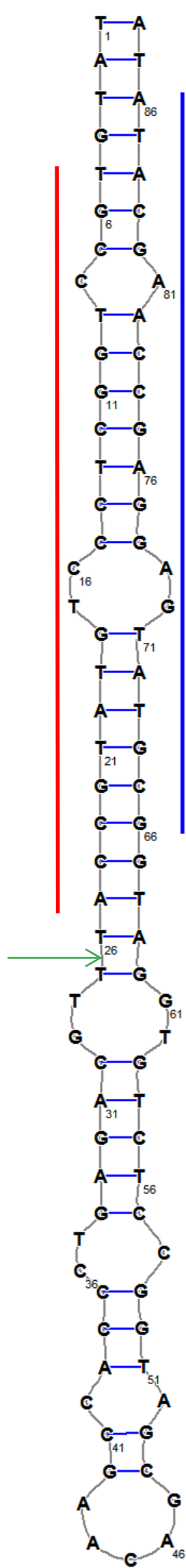
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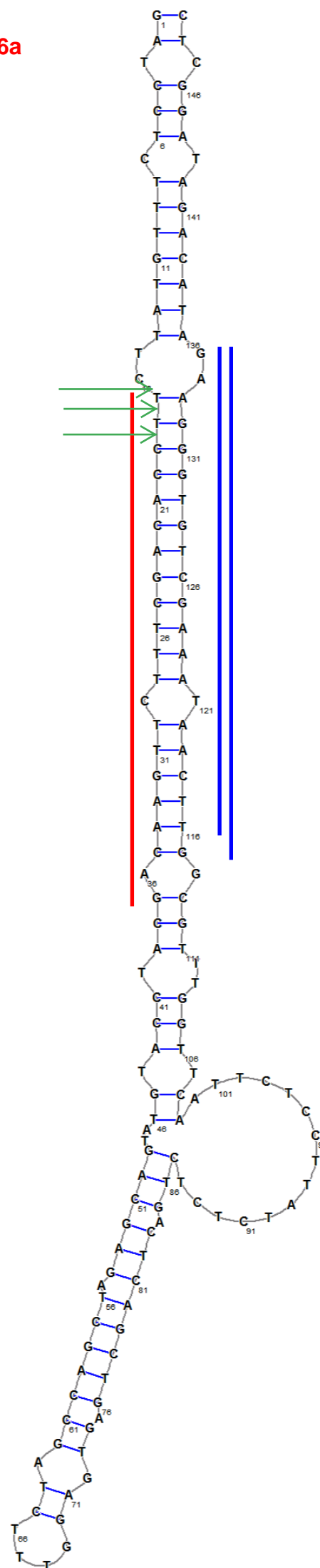
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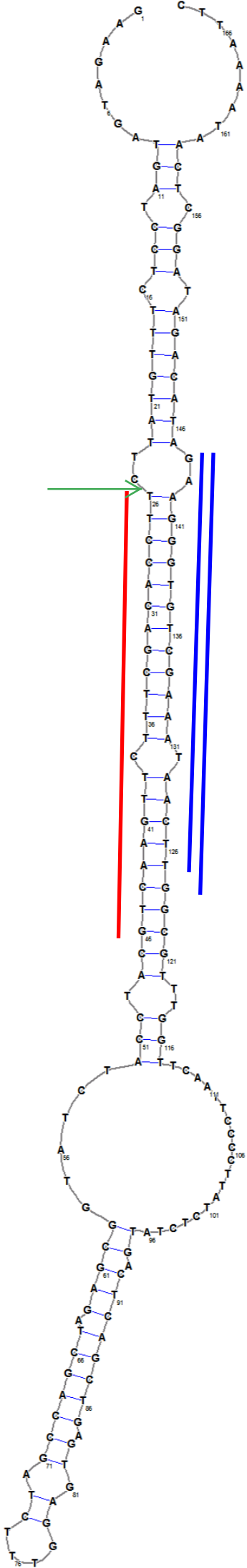
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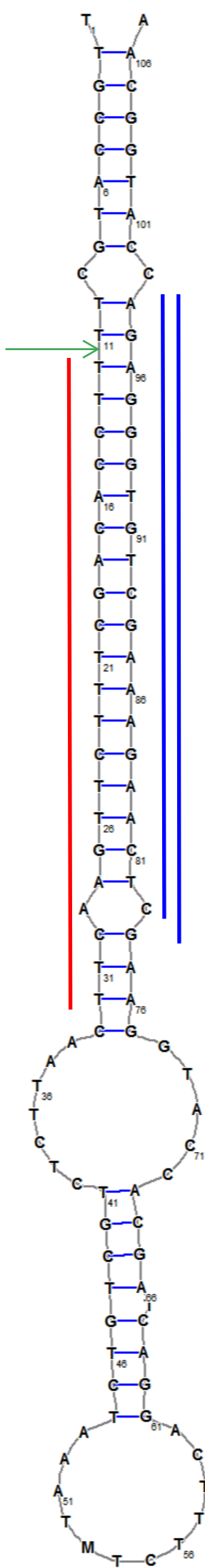
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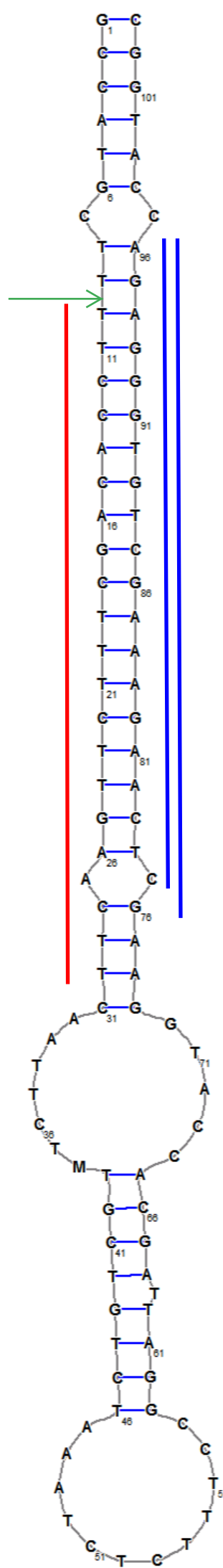
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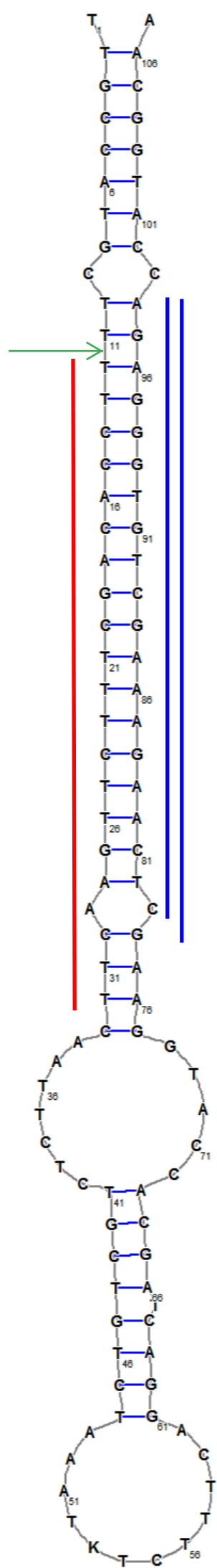
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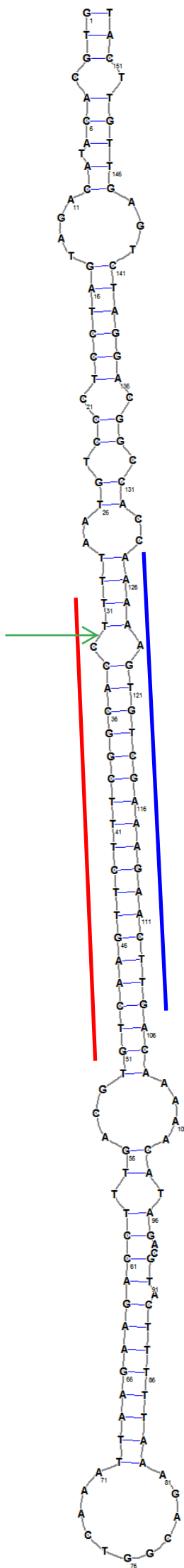
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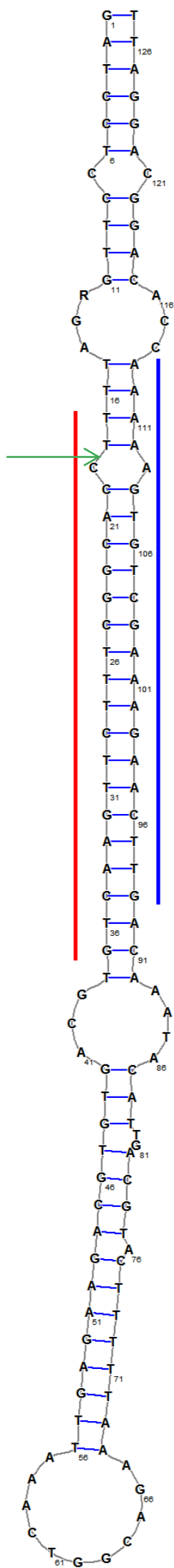
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mdm-MIR396f



mdm-MIR396g



mdm-MIR827

