

Table S1A: Prediction of the endogenous target mimics (eTM) in *A. thaliana* lncRNAs.

S.No	miRNA ID	lncRNA ID	eTM (Interrupted complimentary)
1	>ath-miR5021 MIMAT0020525	URS0000A76CDC_3702.226708	TGAGAAGAAG---AAGAAGAAAA o * 460 TCTCTTCTCCGGTTCTTCTTTTG 437
2	>ath-miR158a-3p MIMAT0000176	At2NC024550	TCCCAAATGT--A-GACAAAGCA : o * 195 AGGGTTTACAATTATTGTTTAGTG 172
3	>ath-miR158a-3p MIMAT0000176	URS0000A76F9E_3702.90588	TCCCAAATGT--A-GACAAAGCA : o * 194 AGGGTTTACAATTATTGTTTAGTG 171
4	>ath-miR5658 MIMAT0022431	At3NC087030	ATGATGATGA---TGATGATGAAA o * 87 TACTACTACTAGAAATACTACTTTA 63
5	>ath-miR5654-3p MIMAT0023005	URS0000A771E5_3702.56550	TGGAAGATGC--T-TTGGGATTTATT : o * 173 ACCTTTTACGAAACAACCGTAAATAAT 147
6	>ath-miR5024-3p MIMAT0021048	URS000041CF79_3702.231333	CCGTATCTTG-G--CCTTGTCATT o :* 947 GGCATAGAACTCTGGGAACAGAAGG 923
7	>ath-miR5024-3p MIMAT0021048	URS00003FE7F7_3702.231334	CCGTATCTTG-G--CCTTGTCATT o :* 1005 GGCATAGAACTCTGGGAACAGAAGG 981
8	>ath-miR834 MIMAT0004254	ATHA_LNC000008.1	TGGTAGCAGT---AGCGGTGGTAA o * 240 ACCATCGTCATAATCGCCACCCTTT 216
9	>ath-miR834 MIMAT0004254	ATHA_LNC000008.2	TGGTAGCAGT---AGCGGTGGTAA o * 152 ACCATCGTCATAATCGCCACCCTTT 128
10	>ath-miR399a MIMAT0000951	At2NC062450	TGCCAAAGGA---GATTTGCCCTG o :* 612 ACGGTTTCCTAGGCTCAACGGGATA 588
11	>ath-miR399b MIMAT0000952	At2NC062450	TGCCAAAGGA---GAGTTGCCCTG :~* 612 ACGGTTTCCTAGGCTCAACGGGATA 588
12	>ath-miR159c MIMAT0001015	At3NC063150	TTTGGATTG-AA--GGGAGCTCCT : : * 101 AAACCTTAACATTACCTTTCGAGGAA 77
13	>ath-miR399c-3p MIMAT0000953	At2NC062450	TGCCAAAGGA---GAGTTGCCCTG :~* 612 ACGGTTTCCTAGGCTCAACGGGATA 588

Table S1B: Prediction of the endogenous target mimics (eTM) in *O. sativa* lncRNAs.

S.No	miRNA ID	lncRNA ID	eTM (Interrupted complimentary)
1	>osa-miR5543 MIMAT0022179	OSAT_LNC000527.1 gene=OSAT_LNC000527	TATGAATGGT--A-TATTTTCTTG o : * 832 ATACTTACCATATAAGAAAGGAACC 808
2	>osa-miR5543 MIMAT0022179	LOC_Os03r16696.1 gene=LOC_Os03r16696	TATGAATGGT--A-TATTTTCTTG o : * 717 ATACTTACCATATAAGAAAGGAACC 693
3	>osa-miR3979-5p MIMAT0019673	OSAT_LNC000630.1 gene=OSAT_LNC000630	TCTCTCTCTCC---CTTGAAGGC : :o* 323 AGAGAGAGAGGTTAGAGCTTCTCA 300
4	>osa-miR399d MIMAT0000987	EL1024	TGCCAAAGGA---GAGTTGCCCTG : :* 379 ACGGTTTCCTATGTTCAACGGGATG 355
5	>osa-miR399d MIMAT0000987	URS00008F3C1B_39947.4237	TGCCAAAGGA---GAGTTGCCCTG : :* 301 ACGGTTTCCTATGTTCAACGGGATG 277
6	>osa-miR166b-3p MIMAT0000636	URS00008EF6C7_39947.5681	TCGGACCAG---GCTTCATTCCCC : o * 292 AGCCTGGTTAAGCGAACTAAGGGGT 268
7	>osa-miR166a-3p MIMAT0000635	URS00008EF6C7_39947.5681	TCGGACCAG---GCTTCATTCCCC : o * 292 AGCCTGGTTAAGCGAACTAAGGGGT 268
8	>osa-miR1850.2 MIMAT0009210	LOC_Os01r32775.1 gene=LOC_Os01r32775	TTGTGTGTGA---ACTAAACGTGG o : :* 189 AACACACACTTGTGACTTGATCC 165
9	>osa-miR166d-3p MIMAT0000638	URS00008EF6C7_39947.5681	TCGGACCAG---GCTTCATTCCCC : o * 292 AGCCTGGTTAAGCGAACTAAGGGGT 268
10	>osa-miR5809 MIMAT0023281	OSAT_LNC001283.1 gene=OSAT_LNC001283	TCGTCGCCGG---CGACCACAGC : o : * 224 GGCAGCGGCCGTAGCTGGAGTTGG 201
11	>osa-miR399h MIMAT0000991	URS00008EE938_39947.985	TGCCAAAGG--A-GACTTGCCACAG : o * 107 ACGGTTTCCGATCCTGAGTGGTTC 83
12	>osa-miR1428e-3p MIMAT0007785	LOC_Os04r56615.1 gene=LOC_Os04r56615	TAAGATAAT---GCCATGAATTTG o * 248 ATTCTATTAAATCGGTACTAAAACC 224
13	>osa-miR2102-5p MIMAT0010068	URS00008E9D05_39947.4710	GGGCAAGCC---GCCGCCGCCAC : o * 629 CCCGTTTGGGATCGGCGCGGCGG 606

S.No	miRNA ID	lncRNA ID	eTM (Interrupted complimentary)
14	>osa-miR1427 MIMAT0005961	OSAT_LNC000693.1 gene=OSAT_LNC000693	TCGGGAACCG--T-GCGGTGGCGC :: o* 363 ACGCCTTGCGGAACCGCTGCCGCAG 339
15	>osa-miR166f MIMAT0000640	URS00008EF6C7_39947.5681	TCGGACCAG---GCTTCATTCCCC : o * 292 AGCCTGGTTAAGCGAACTAAGGGGT 268
16	>osa-miR399j MIMAT0000993	EL1024	TGCCAAAGGA---GAGTTGCCCTA : * 379 ACGGTTTCCTATGTTCAACGGGATG 355
17	>osa-miR399j MIMAT0000993	URS00008F3C1B_39947.4237	TGCCAAAGGA---GAGTTGCCCTA : * 301 ACGGTTTCCTATGTTCAACGGGATG 277
18	>osa-miR166j-3p MIMAT0001088	URS00008EF6C7_39947.5681	TCGGACCAG---GCTTCATTCCCC : o * 292 AGCCTGGTTAAGCGAACTAAGGGGT 268
19	>osa-miR166c-3p MIMAT0000637	URS00008EF6C7_39947.5681	TCGGACCAG---GCTTCATTCCCC : o * 292 AGCCTGGTTAAGCGAACTAAGGGGT 268

Table S1C: Prediction of the endogenous target mimics (eTM) in *Z. mays* lncRNAs.

S.No	miRNA ID	lncRNA ID	eTM (Interrupted complimentary)
1	>zma-miR166a-3p MIMAT0001375	URS000078222A_4577.3487	TCGGACCAGG---CTTCATTCCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGGG 623
2	>zma-miR166a-3p MIMAT0001375	URS00007643DE_4577.3486	TCGGACCAGG---CTTCATTCCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGGG 623
3	>zma-miR166a-3p MIMAT0001375	URS0000D769B0_4577.3488	TCGGACCAGG---CTTCATTCCCC : o * 47 AGCCTGGTTCCGCGAACTAAGGGGG 23
4	>zma-miR166a-3p MIMAT0001375	ZMAY_LNC000547.1	TCGGACCAGG---CTTCATTCCCC : o * 633 AGCCTGGTTCTGCGAACTAAGGGGT 609
5	>zma-miR399i-3p MIMAT0014024	URS0000D747F0_4577.109	TGCCAAAGGA---GAGTTGCCCTG : :* 426 ACGGTTTCTATGTTCAACGGGATG 402
6	>zma-miR399e-3p MIMAT0001708	URS0000D747F0_4577.109	TGCCAAAGGA---GAGTTGCCCTG : :* 426 ACGGTTTCTATGTTCAACGGGATG 402
7	>zma-miR166b-3p MIMAT0001382	URS000078222A_4577.3487	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624
8	>zma-miR166b-3p MIMAT0001382	URS00007643DE_4577.3486	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624
9	>zma-miR166b-3p MIMAT0001382	URS0000D769B0_4577.3488	TCGGACCAGG---CTTCATTCCC : o * 47 AGCCTGGTTCCGCGAACTAAGGGG 24
10	>zma-miR166b-3p MIMAT0001382	ZMAY_LNC000547.1	TCGGACCAGG---CTTCATTCCC : o * 633 AGCCTGGTTCTGCGAACTAAGGGG 610
11	>zma-miR166e MIMAT0001378	URS000078222A_4577.3487	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624
12	>zma-miR166e MIMAT0001378	URS00007643DE_4577.3486	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624
13	>zma-miR166e MIMAT0001378	URS0000D769B0_4577.3488	TCGGACCAGG---CTTCATTCCC : o * 47 AGCCTGGTTCCGCGAACTAAGGGG 24

S.No	miRNA ID	lncRNA ID	eTM (Interrupted complimentary)
14	>zma-miR166e MIMAT0001378	ZMAY_LNC000547.1	TCGGACCAGG---CTTCATTCCC : o * 633 AGCCTGGTTCTGCGAACTAAGGGG 610
15	>zma-miR160f-5p MIMAT0001750	URS0000D76A9A_4577.21215	TGCCTGGCT--C-CCTGTATGCCG o * 406 ACGGACCGAAAGGGTACATACGGCG 382
16	>zma-miR166h-3p MIMAT0001377	URS000078222A_4577.3487	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624
17	>zma-miR166h-3p MIMAT0001377	URS00007643DE_4577.3486	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624
18	>zma-miR166h-3p MIMAT0001377	URS0000D769B0_4577.3488	TCGGACCAGG---CTTCATTCCC : o * 47 AGCCTGGTTCCGCGAACTAAGGGG 24
19	>zma-miR166h-3p MIMAT0001377	ZMAY_LNC000547.1	TCGGACCAGG---CTTCATTCCC : o * 633 AGCCTGGTTCTGCGAACTAAGGGG 610
20	>zma-miR166d-3p MIMAT0001384	URS000078222A_4577.3487	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624
21	>zma-miR166d-3p MIMAT0001384	URS00007643DE_4577.3486	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624
22	>zma-miR166d-3p MIMAT0001384	URS0000D769B0_4577.3488	TCGGACCAGG---CTTCATTCCC : o * 47 AGCCTGGTTCCGCGAACTAAGGGG 24
23	>zma-miR166d-3p MIMAT0001384	ZMAY_LNC000547.1	TCGGACCAGG---CTTCATTCCC : o * 633 AGCCTGGTTCTGCGAACTAAGGGG 610
24	>zma-miR482-5p MIMAT0015361	GRMZM2G163636_T01	TGGGAGATGAA---GGAGCCTT o : * 570 TCCCTCTGCTTCCGCCTCGGAAG 548
25	>zma-miR397b-3p MIMAT0015353	GRMZM5G857327_T01	CCAGCGCTG--C-ACTCAATTACG o * 118 GGTGGCGACTAGGTGAGTTAATGCG 94
26	>zma-miR166f MIMAT0001380	URS000078222A_4577.3487	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624

S.No	miRNA ID	lncRNA ID	eTM (Interrupted complimentary)
27	>zma-miR166f MIMAT0001380	URS00007643DE_4577.3486	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624
28	>zma-miR166f MIMAT0001380	URS0000D769B0_4577.3488	TCGGACCAGG---CTTCATTCCC : o * 47 AGCCTGGTTCCGCGAACTAAGGGG 24
29	>zma-miR166f MIMAT0001380	ZMAY_LNC000547.1	TCGGACCAGG---CTTCATTCCC : o * 633 AGCCTGGTTCTGCGAACTAAGGGG 610
30	>zma-miR166g-3p MIMAT0001381	URS000078222A_4577.3487	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624
31	>zma-miR166g-3p MIMAT0001381	URS00007643DE_4577.3486	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624
32	>zma-miR166g-3p MIMAT0001381	URS0000D769B0_4577.3488	TCGGACCAGG---CTTCATTCCC : o * 47 AGCCTGGTTCCGCGAACTAAGGGG 24
33	>zma-miR166g-3p MIMAT0001381	ZMAY_LNC000547.1	TCGGACCAGG---CTTCATTCCC : o * 633 AGCCTGGTTCTGCGAACTAAGGGG 610
34	>zma-miR166i-3p MIMAT0001379	URS000078222A_4577.3487	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624
35	>zma-miR166i-3p MIMAT0001379	URS00007643DE_4577.3486	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624
36	>zma-miR166i-3p MIMAT0001379	URS0000D769B0_4577.3488	TCGGACCAGG---CTTCATTCCC : o * 47 AGCCTGGTTCCGCGAACTAAGGGG 24
37	>zma-miR166i-3p MIMAT0001379	ZMAY_LNC000547.1	TCGGACCAGG---CTTCATTCCC : o * 633 AGCCTGGTTCTGCGAACTAAGGGG 610
38	>zma-miR399j-3p MIMAT0014025	URS0000D747F0_4577.109	TGCCAAAGGA---GAGTTGCCCTG : * 426 ACGGTTTCCTATGTTCAACGGGATG 402
39	>zma-miR166c-3p MIMAT0001383	URS000078222A_4577.3487	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCCGCGAACTAAGGGG 624

S.No	miRNA ID	lncRNA ID	eTM (Interrupted complimentary)
40	>zma-miR166c-3p MIMAT0001383	URS00007643DE_4577.3486	TCGGACCAGG---CTTCATTCCC : o * 647 AGCCTGGTTCGCGAACTAAGGGG 624
41	>zma-miR166c-3p MIMAT0001383	URS0000D769B0_4577.3488	TCGGACCAGG---CTTCATTCCC : o * 47 AGCCTGGTTCGCGAACTAAGGGG 24
42	>zma-miR166c-3p MIMAT0001383	ZMAY_LNC000547.1	TCGGACCAGG---CTTCATTCCC : o * 633 AGCCTGGTCTGCGAACTAAGGGG 610
43	>zma-miR164d-3p MIMAT0015137	TCONS_00088581	CACGTGGTCTC---CTTCTCCAT : o o 316 GTGTACCAGAGTTAGTAGAGGTT 294