

Supplementary Material 2: Sequences, chromosomal position, and strand information of *Glycine max* MATE antisense transcripts predicted from the *Glycine soja* MATE antisense transcripts identified in this study.

>**Gmax_MSTRG.58089.1** GeneID=Gmax_MSTRG.58089;Strand=-;Pos=Chr11:8552160-8552384,
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>**Gmax_MSTRG.5537.2** GeneID=Gmax_MSTRG.5537;Strand=+;Pos=Chr02:3723902-3723911,3724148-3724578,3724648-3724859,

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GTCCGGGAGCGGGTCCGGCTGTGCCTGGTGGTGGGAGAACTAGCGGAAGGGACTGGTG
AGGTTGCAGGAGAAGAAGCAGGTGTAGGTGCAGCTGTTGGTGTGGCGTTGGTGTGTTG
CTGGTGGTGATGTTGCTGGTGGAGGAGTTGCTGCTGCTGGTGGTGGTGTGCTGGTGGTG
GTGTTGCTGGCGGGGTGGGTGCTGGTGCAGGTGCTGATCTTGGTGGTGGTGGTGGTGGG
TTGTAGTGGGTGGTTGTGTGGCACCAGAACCCATCTAGCTATAGAGAAAATGAGAGACCA
AAGAAAATGTTGTAGTGCTTGTGTGTGTAAGAGAAGAGAGAGAGAGAGAGAGAGTTTGAGCAGT
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>**Gmax_MSTRG.20763.1** GenelD=Gmax_MSTRG.20763;Strand=-;Pos=Chr05:130422-130681,
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GCCACTCTTTCTCAGCACTAGCAGTGGTGCTGCCAACTCTCTGGAGCTTTCATATTGTC
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>**Gmax_MSTRG.6400.1** GenelD=Gmax_MSTRG.6400;Strand=+;Pos=Chr02:7929647-7930398,
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ATGGATAGCAAAGCGAGAGAATAGTTACCAAACCATGACTGCTGCTGGGACAGCAAAGCG
AAAGAACTCTCCAACACCAACCAAAGCATTCTTGGAGAAAGAGATGCGTGTTTTCTCACA
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GAAGGAGATTGCGGCACCAACATGTCCCAACCCCAGTTTAAAAACAAGGGTCCAACATGT
TACTACGTGGAAGCACAAAGCTATAGCGGAGGTTAGAATCATGGGAGAAATCAAACCTCTG
GGTCTGGAAAAATCGTGTTAGAGGTTTGAGAATTGCGGAACCAAATAGAGCAGGTATTAG
CCAAATGGCATATTTACGAACTTCAAGGGATATTGTTGGGTCTTGGCCTAATAGAGTTAA
TATTTTGTCAATTGAAAATCCATAGAATTGTGATCGGGAAACAAACCAAAGAAAGGGATAT
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ACATAAAGTTTCCAATCCACCAGCCATCCCTG

>**Gmax_MSTRG.10877.1** GeneID=Gmax_MSTRG.10877;Strand=+;Pos=Chr03:546888-547123,

GAGAGTACAGGTTGAACACTGTTTCAGTAATATAGAGACCGACAACAAAGGTGACAAATCC

CCAACAGCAAAGGCCACCTCTTTATTTGAGGTAAATATATATGCAAGTCTTTCTCTAAAA

AATAAGAAGAATATGAACAGAAGGAATCCGATGGCCAATGATGTGAGCACTGACACAATA

ATAGAGAACTTTGCAGCTTTGGCACTTCCTCTTCCAAGTTCATTTGCCACTCGAAC