

In silico based profiling and characterization of functional microRNAs and their crucial targets in *Saccharum officinarum*

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Supplementary Data

Table S1 — Evaluation of possible sugarcane targets predicted by psRNATarget in term of miRNAs family number, targets accession, targets description, functions and their alignment

<i>S. officinarum</i> miRNAs	Target Accession	Target Description	Function	Alignment
sof-miR160a	TC149232	Chromosome chr5 scaffold	Hypothetical protein	miRNA 21 ACCGUCCGUCCGUCGGUCCGU 1 :: :::::..... Target 686 CGGAAGGCGGGCAGCCAGGCG 706
sof-miR397a	CA145592	Elongation factor 1-alpha	Transcription factor	miRNA 21 GUAGUUGCGACGCGAGUCACU 1 ::: ::: :: :: Target 158 CAUCAACAUUGCGGUCAUUGA 178
sof-miR397b	TC113438	Serine/threonine kinase	Cell signaling protein	miRNA 21 GUAGUUGCGGCGCGAGUUGCC 1:..... Target 467 GGUCGACGUCGCGCCCGACGG 487
sof-miR397c	TC116530	Monosaccharide transport protein 1	Transporter	miRNA 21 GUAGUUGCGGCGCGAGUUGCC 1:..... Target 505 CGUCGCGCGCCCGCCUCAACGG 525
sof-miR528a	TC149276	Chromosome undetermined scaffold_198	Hypothetical protein	miRNA 21 GAGGAGACGUACGGGGAAGGU 1 ::: :::..... Target 143 CUCUGCUGCAUGCCCCUUCGG 163
sof-miR1120b	TC122416	Aspartate aminotransferase	Metabolism	miRNA 21 GAGACAGGGUUUUUUCUUCUU 1 ::: :::..... Target 1110 UUCUGCCUGAAAAUAGAAGAA 1130
sof-miR1127b	TC146304	ADP-ribosylation factor	Metabolism	miRNA 21 GGAGGCAGGUCUUUUUGUACA 1:..... Target 133 UCUCGUCUAGAAGGAGAUGA 153
sof-miR1432	TC138244	Nematostellavectensis	Cell signaling protein	miRNA 21 CAGCCACAGUAGAGAGGACUC 1 ::: :::..... Target 699 AGCGUUUCAUUUUUCUUGGG 719
sof-miR1435	TC118999	Os05g0314100 protein	Transcription factor	miRNA 20 AUCUUCGAACUGAAUUCUGU 1 ::: :::..... Target 541 GAGGAUUUUUACUUAAGGCA 560
sof-miR1846a	CA106593	Glycine-rich RNA binding protein	Metabolism	miRNA 21 UCGCCGGGCGGAGGAGUGA 1:..... Target 213 CGCGGCUUCGGCUUCGUCACC 233
sof-miR1846e	CA066505	Histone H2A	Structural protein	miRNA 20 CGAGUGGCCGGAGGAGCAGC 1 ::: :::..... Target 299 GCUUACCGAGCUCCUCGUCG 318

(Contd.)

