

S6 Table. List of the potential target genes for *S. japonicum* miRNAs

miRNAs	Target gene	Name of target genes	MiRNA:mRNA duplex*	Mfe (kcal/mol)
	IDs			
miR-new1	AY812714.1	Outer dense fiber of sperm tails 2	target 5' A UUUUCUUGU A 3' UUGUC AGUGCUCUCU GCGAG UCACGAGAGA miRNA 3' A UAUUU G 5'	-22.6
	AY811515.1	T-complex	target 5' G A UUA G 3' CUGUC AUGAA GCUCU GCGAG UAUUU CGAGA miRNA 3' A UCA GAG 5'	-21.1
Let-7	FN315235.1	Hypothetical protein	target 5' UG U UUGUU G 3' U A CAAC ACUACCUC G U GUUG UGAUGGAG miRNA 3' UG UG CU G 5'	-21.1
	FN327005.1	Hypothetical protein	target 5' A UG U A G 3' U A CAAC GAACUACCUC G U GUUG CUUGAUGGAG miRNA 3' UG UG G 5'	-26.4
	AY814216.1	Hypothetical protein	target 5' A UG U A G 3' U A CAAC GAACUACCUC G U GUUG CUUGAUGGAG miRNA 3' UG UG G 5'	-26.4
Let-7b	AY810070.1	Lim domain	target 5' U G 3' GUUAUGAAU CAUUACCUC UAUACUUA GUGAUGGAG miRNA 3' UCAG A 5'	-25.4
	AY814216.1	Hypothetical protein	target 5' A GAUCAACAGA G 3' UAUGUGAAU ACUACCUC GUUAACUUAG UGAUGGAG miRNA 3' UCA A 5'	-26.0
Let-7s	FN317371.1	Hypothetical protein	target 5' G UUUUAUCUUUC U G 3' UGUA CAUCUA CUACCU GCAU GUAGAU GAUGGA miRNA 3' UCA U G 5'	-21.0
miR-2a	AY811143.1	CDS of Lipid synthesized	target 5' A AG AAU C 3' GU AU CUGGCUUGUG CA UA GACCGACAC miRNA 3' G AG GUUAU U 5'	-22.8
	AY336493.1	RNA polymerase B transcription factor 3	target 5' U CCUU U A C 3' CGUUC UUA UACUG CUGUG GCAAG AGU AUGAC GACAC miRNA 3' U U C C U 5'	-22.5
	AY223360.1	Hypothetical protein	target 5' A UUU AU C 3' UGUUCGUCA CUG CUGUGG GCAAGUAGU GAC GACACU miRNA 3' UAU C 5'	-25.4
miR-1	FN318139.1	Putative signal peptide peptidase-like 2A	target 5' A 3' CAUA CCACAUCC GUAU GGUGUAAGG miRNA 3' CUG GAAGC U 5'	-19.7
	AY915410.1	PKC	target 5' C C 3' ACCA UCGCCAC UCC UGGU AGCGGGUG AGG miRNA 3' C AUGA UA U 5'	-23.4
Lin-4	FN324931.1	Ploy A binding protein	target 5' A C A C U 3' AC ACUU AA GUCUCA GG UG UGAG UU CAGAGU CC miRNA 3' U A C C U 5'	-19.0

miR-2e	AY815588.1	Poly A binding protein	target 5' A AAACUUACAGGAU UCU UG A 3' GCCAGA UGGUUU GCU UGG UG GAUA miRNA 3' CGA ACC AC CUAU UG A 5'	-23.6
miR-219	AY816105.1	Hypothetical protein	target 5' A ACAGC ACAAA C 3' GAGAAAUGC UGGAA AAUC UUCUUUACG ACCU UUAG miRNA 3' CUU G U 5'	-22.0
miR-124	AY815898.1	26S proteasome regulatory subunit S3	target 5' U UG A UA C 3' UG A UU GCGUGCCUU AC U AG CGCACGGAA miRNA 3' UG A UGG U 5'	-24.5
	AY815673.1	COP9 signalosome complex	target 5' U UG A UA C 3' UG A UU GCGUGCCUU AC U AG CGCACGGAA miRNA 3' UG A UGG U 5'	-24.5
miR-277	AY815194.1#	SJCHGC05742 protein	target 5' G UUACAAUAC A 3' GGGUUCG GUAUUUA CCCGGU CGUAAA miRNA 3' UG CUUUA 5'	-19.0

* miRNA:mRNA pair analysis was performed using RNAhybrid (<http://bibiserv.techfak.uni-bielefeld.de/rnabybrid/>)

indicates that the target mRNA was not successfully verified by luciferase assay.