

**Table S2** Primers used in this study

Target gene	Primer name	Direction	Sequence(5'→3') <sup>a</sup>	Product size (bp)	PCR T <sub>m</sub> (°C)	References
<b>Primers for phylogenetic analysis</b>						
<i>Cytochrome c oxidase subunit I</i>	LCO1490	Forward	GGTCAACAAATCATAAAGATATTGG	710	50	62
	HCO2198	Reverse	TAAACTTCAGGGTGACCAAAAAATCA			62
<b>Primers for quantitative PCR</b>						
<i>SmMCO2A</i> and <i>SmMCO2B</i>	SmMCO2_q803F	Forward	ACCATTTCATTGGCACGGTAT	204	62	This study
	SmMCO2_q1006R	Reverse	GGGCGGTTGTCTAACTACGA			This study
<i>Elongation factor 1 alpha</i>	WevEF1a_640F	Forward	AACATGTTGGAACCCTCCAC	175	62	This study
	WevEF1a_814R	Reverse	CACCAATTTGTAGACATCCTG			This study
<b>Primers for dsRNA</b>						
<i>SmMCO2A</i> and <i>SmMCO2B</i>	T7_SmMCO2_276F	Forward	GATCACT <u>TAATACGACTCACTATAGGG</u> TTTTCGAACGTCACCCACTG	593	62	This study
	T7_SmMCO2_810R	Reverse	GATCACT <u>TAATACGACTCACTATAGGG</u> GGGCGGTTGTCTAACTACGA			This study
<i>EGFP</i>	T7_EGFP_284F	Forward	GATCACT <u>TAATACGACTCACTATAGGG</u> AGGAGCGCACCATCTTCTC	449	62	This study
	T7_EGFP_674R	Reverse	GATCACT <u>TAATACGACTCACTATAGGG</u> ACGAACTCCAGCAGGACCAT			This study

<sup>a</sup> The T7 promoter sequences are underlined.