

**Supplemental Appendix A. Primers and PCR protocols used in this study.**

Marker	Direction	Sequence (5'-3')	PCR protocol	Reference
<i>16S</i>	Forward	CGCCTGTTTATCAAAAACAT	Initial denaturing for 6 min at 94°C; 30 cycles of 0.5 min denaturing at 94°C, 1 min annealing at 50°C, and 1.5 min elongation at 72°C; 6 min final extension at 72°C	Ahyong and Jarman (2009)
	Reverse	CCGGTCTGAACTCAGATCACGT		
<i>COI</i>	Forward 1	TCAACCAACCACAAAGACATTGGCAC	Initial denaturing for 4 min at 94°C; 35 cycles of 0.5 min denaturing at 94°C, 0.5 min annealing at 45–55°C, and 0.5 min elongation at 72°C; 7 min final extension at 72°C	Chang et al. (2017)
	Reverse 1	TAGACTTCTGGGTGGCCAAAGAATCA		
	Forward 2	TCGACTAATCATAAAGATATCGGCAC		
	Reverse 2	ACTTCAGGGTGACCGAAGAATCAGAA		
Control region	Forward	AGCACCGGTCTTGTAACCG	Initial denaturing for 4 min at 94°C; 35 cycles of 0.5 min denaturing at 94°C, 0.5 min annealing at 55°C, and 1.5 min elongation at 72°C; 5 min final extension at 72°C	Cheng et al. (2012)
	Reverse	GGGCTCATCTTAACATCTTCA		
<i>RAG2</i>	Forward	SACCTTGCTGCAAAGAGA	Initial denaturing for 4 min at 94°C; 35 cycles of 0.5 min denaturing at 94°C, 0.5 min annealing at 55°C, and 0.5 min elongation at 72°C; 7 min final extension at 72°C	DiBattista et al. (2012)
	Reverse	GGATCCCCTTBTCATCCAGA		
<i>S7</i>	Forward	TGGCCTCTTCCTGGCCGTC	Initial denaturing for 4 min at 94°C; 35 cycles of 0.5 min denaturing at 94°C, 0.5 min annealing at 54°C, and 0.5 min elongation at 72°C; 7 min final extension at 72°C	Chow and Hazama (1998)
	Reverse	AACTCGTCTGGCT TTTCGCC		