

# Supplementary Material

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A

	Sequence (5'→3')	Length	Tm	GC%	Self complementarity	Self 3' complementarity
Forward primer	GACGCAGCGAAGTGTGATAA	20	58.65	50.00	5.00	2.00
Reverse primer	CAACGCCTTGACAAACAAGA	20	57.16	45.00	6.00	1.00

Products on target templates

>[KJ561350.1](#) *Cochlodinium polykrikoides* small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence

```
product length = 186
Forward primer 1      GACGCAGCGAAGTGTGATAA  20
Template       2659  .....                2678

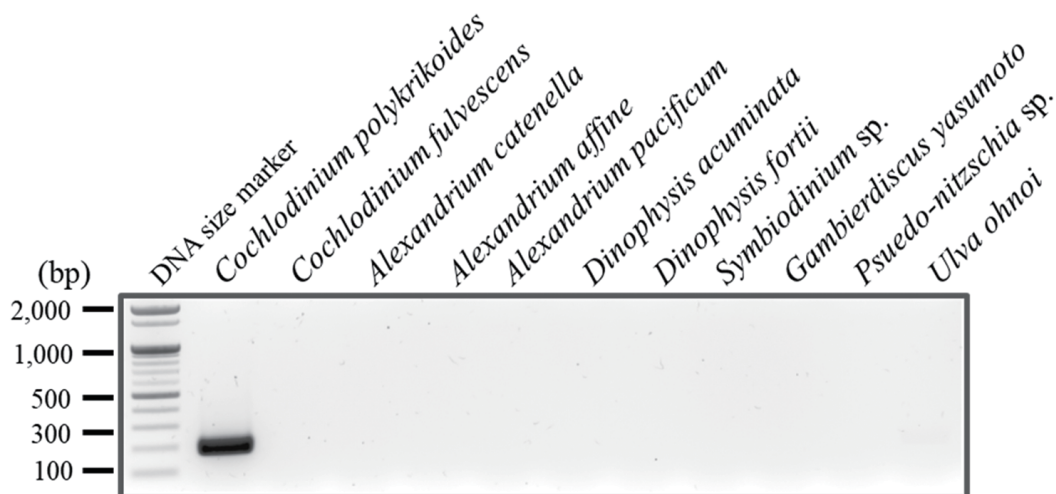
Reverse primer 1      CAACGCCTTGACAAACAAGA  20
Template       2844  .....                2825
```

>[EU418934.1](#) *Cochlodinium polykrikoides* strain NFFCPO2 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1 and 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence

```
product length = 185
Forward primer 1      GACGCAGCGAAGTGTGATAA  20
Template       867    .....                886

Reverse primer 1      CAACGCCTTGACAAACAAGA  20
Template       1051   .....                1032
```

B



**Supplementary Fig. S1.** Validation of *Cochlodinium polykrikoides*-specific primer. (A) NCBI Primer-BLAST tool demonstrated no cross-reactivity with other species against *C. polykrikoides*-specific primers. (B) Electrophoresis after performing regular polymerase chain reaction (PCR) with *C. polykrikoides*-specific primers exhibited no PCR amplification product against gDNA of other non-target species.