

Supplementary Materials

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Supplementary Table S1. List of species used to determine primer specificity, and quantitative real-time PCR (qPCR) results

Targeting species	Tested taxon	Tested species	Strain	Location of collection	qPCR result
<i>Yihiella yeosuensis</i>	Dinoflagellate, Suessiaceae	<i>Yihiella yeosuensis</i>	YYYS1405	Yeosu, Korea	+
	Dinoflagellate, Suessiaceae	<i>Ansanella granifera</i>	AGSW10	Shiwha, Korea	-
	Dinoflagellate, Suessiaceae	<i>Biecheleria cincta</i>	BCSW0906	Shiwha, Korea	-
	Dinoflagellate, Suessiaceae	<i>Biecheleriopsis adriatica</i>	BATY06	Tongyoung, Korea	-
	Dinoflagellate, Suessiaceae	<i>Pelagodinium bei</i>	HJ-2010	Shiwha, Korea	-
	Dinoflagellate, Symbiodiniaceae	<i>Effrenium voratum</i>	SvFL 1	Jeju, Korea	-
	Cryptophyte, Geminigeraceae	<i>Teleaulax amphioxeia</i>	CR-MAL01	Gomso Bay, Korea	-
<i>Pyramimonas</i> sp.	Prasinophyte, Trichocystis	<i>Pyramimonas</i> sp.	PSSH1204	Shiwha, Korea	-
	Prasinophyte, Trichocystis	<i>Pyramimonas</i> sp.	PSSH1204	Shiwha, Korea	+
	Prasinophyte, Trichocystis	<i>Pyramimonas grossii</i>	CCMP721	English Channel, Europe	-
	Prasinophyte, Trichocystis	<i>Pyramimonas parkeae</i>	CCMP725	San Francisco Bay, USA	-
	Prasinophyte, Vestigifera	<i>Pyramimonas disomata</i>	PDTY1408	Tongyoung, Korea	-
	Prasinophyte, Vestigifera	<i>Pyramimonas ovobata</i>	CCMP722	Sargasso Sea	-
	Prasinophyte, Pterospermataceae	<i>Pterosperma</i> sp.	CCMP1384	Galapagos Islands	-
<i>Teleaulax amphioxeia</i>	Dinoflagellate, Suessiaceae	<i>Yihiella yeosuensis</i>	YYYS1405	Yeosu, Korea	-
	Cryptophyte, Geminigeraceae	<i>Teleaulax amphioxeia</i>	CR-MAL01	Gomso Bay, Korea	-
	Cryptophyte, Geminigeraceae	<i>Teleaulax amphioxeia</i>	CR-MAL01	Gomso Bay, Korea	+
	Cryptophyte, Geminigeraceae	<i>Teleaulax amphioxeia</i>	RCC4841	Penzé estuary, France	+
	Cryptophyte, Geminigeraceae	<i>Geminigera</i> sp.	RCC5152	Ross Sea, Antarctic	-
	Cryptophyte, Geminigeraceae	<i>Proteomonas sulcata</i>	CCMP704	NA	-
	Cryptophyte, Baffinellaceae	<i>Baffinella frigidus</i>	CCMP2293	Baffin Bay, Arctic	-
	Cryptophyte, Pyrenomonadaceae	<i>Storeatula</i> sp.	SSSH1204	Shiwha, Korea	-
	Cryptophyte, Pyrenomonadaceae	<i>Rhodomonas salina</i>	RS	NA	-
	Dinoflagellate, Suessiaceae	<i>Yihiella yeosuensis</i>	YYYS1405	Yeosu, Korea	-
Prasinophyte, Trichocystis	<i>Pyramimonas</i> sp.	PSSH1204	Shiwha, Korea	-	

+, amplified; -, not amplified; NA, not available.