O	F	S	P1		P2	
			16sar-L CGCCTGTTTATCAAAAACAT	**16sbr-H** ACGTGATCTGAGTTCAGACCGG	**FOR16Spc** TGCCCGTGCAGAAGCGG	**REV16Spc** GGGTTTACGACCTCGATGTTG
Anguilliformes	Muraenosocidae	*Congresox talabonoides*	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TGCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Muraenesox cinereus	NUS	NUS	TACCCGTGCAGAAGCGG	NUS
Aulopiformes	Synodontidae	*Saurida elongata*	NUS	NUS	TCCCCGTGCAGAAGCGG	NUS
		Saurida undosquamis	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TTCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Saurida wanieso	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TTCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG

		Synodus indicus	NAS			
		Synodus synodus	NAS			
		Synodus variegatus	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGAAGAAGCGG	GGGTTTACGACCTCGATGTTG
Clupeiformes	Chirocentridae	*Chirocentrus dorab*	CGCCTGTTTACCAAAAACAC	ACGTGATCTGAGTTCAGACCGG	TGCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Clupeidae	*Clupea harengus*	CGCCTGTTTACCAAAAACAC	ACGTGATCTGAGTTCAGACCGG	TACCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Clupea pallasii	CGCCTGTTTACCAAAAACAC	ACGTGATCTGAGTTCAGACCGG	TACCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Sardina pilchardus	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TGCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG

		Sardinella albella	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TGCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Sardinella aurita	CGCCTGTTTACCAAAAACAT	NUS	TGTCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Sardinella fimbriata	NUS	NUS	TGCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Sardinella jussieu	NAS			
	Engraulidae	*Thryssa setirostris*	NAS			
Cypriniformes	Cyprinidae	*Ctenopharyngodon idella*	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TATCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG

		Cyprinus carpio	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TACCCGTGCAGAGGCGG TACCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Hypophthalmichthys molitrix	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TATCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Hypophthalmichthys nobilis	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TATCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
Gadiformes	Gadidae	*Gadus morhua*	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG
		Gadus ogac	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG

		Melanogrammus aeglefinus	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG
		Micromesistius australis	NUS	NUS	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG
		Micromesistius poutassou	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG
		Theragra chalcogramma	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG
		Theragra finnmarchica	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG

	Merluccidae	*Macruronus magellanicus*	NUS	NUS	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG
		Macruronus novaezelandiae	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG
		Merluccius australis	CGCCTGTTTACCAAAAACAT	NUS	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG
		Merluccius capensis	CGCCTGTTTACCAAAAACAT	NUS	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG
		Merluccius gayii	CGCCTGTTTACCAAAAACAT CGCCTGTTTATCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG
		Merluccius hubbsi	CGCCTGTTTACCAAAAACAT	NUS	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG

		Merluccius merluccius	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG
		Merluccius productus	CGCCTGTTTACCAAAAACAT	NUS	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG
Perciformes	Carangidae	*Trachurus japonicus*	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCTCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Trachurus picturatus	NUS	ACGTGATCTGAGTTCAGACCGG	TCTCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Cichlidae	*Oreochromis aureus*	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Oreochromis mossambicus	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG

		Oreochromis niloticus	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Mullidae	*Parupeneus indicus*	NAS			
		Parupeneus multifasciatus	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Pseudupeneus prayensis	NUS			
		Upeneus tragula	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Nemipteridae	*Nemipterus bathybius*	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG

		Nemipterus bipunctatus	NUS	NUS	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Nemipterus furcosus	NUS	NUS	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Nemipterus hexodon	NUS	NUS	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Nemipterus japonicus	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Nemipterus mesoprion	NUS	NUS	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Nemipterus peronii	NUS	NUS	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG

		Nemipterus virgatus	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Nototenidae	*Dissostichus eleginoides*	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TTTCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Pomacentridae	*Pomacentrus philippinus*	NUS	NUS	TTCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Priacanthidae	*Priacanthus arenatus*	NUS	NUS	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Priacanthus hamrur	NUS	NUS	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Priacanthus macracanthus	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG

		Priacanthus prolixus	NUS	NUS	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Priacanthus sagittarius	NUS	NUS	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Trichiuridae	*Trichiurus lepturus*	CGCCTGTTTACCAAAAACAT	ACGTGATCTG--TTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Scianeidae	*Argyrosomus inodorus*	NUS	NUS	TTCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Scianeidae	*Argyrosomus japonicus*	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TTCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Scianeidae	*Larimichthys crocea*	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TTTCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG

		Larymichthys polyactis	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TTTCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Pennahia anea	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	CCCCCGTGAAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Sparidae	*Diplodus sargus*	NUS	NUS	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Evynnis cardinalis	NAS			
		Evynnis tumifrons	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Parargyrops edita	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG

	Sphyraenidae	*Sphyraena barracuda*	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TCTCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Sphyraena japonica	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TTCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Sphyraena sphyraena	NUS	NUS	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Stomateidae	*Peprilus medius*	NUS	NUS	TCTCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
Pleuronectiformes	Pleuronectidae	*Atheresthes evermanni*	CGCCTGTTTACCAAAAACAT	NUS	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG
		Atheresthes stomias	NUS	NUS	TCCCCGTGCAGAGGCGG	GGGTTTACGACCTCGATGTTG

Rhinobatiformes	Rhinobatidae	*Rhinobatos jimbaranensis*	NAS			
Salmoniformes	Salmonidae	*Oncorhynchus gorbuscha*	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TGCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Oncorhynchus keta	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TGCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Oncorhynchus mykiss	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TGCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
Scorpaeniformes	Anoplopomatidae	*Anoplopoma fimbria*	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TTCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG

	Hexagrammidae	*Pleurogrammus azonus*	NUS	NUS	TTCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Pleurogrammus monopterygius	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TTCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Sebastidae	*Helicolenus barathri*	NAS			
	Triglidae	*Chelidonichthys kumu*	NAS			
		Chelidonichthys lucernus	NUS	NUS	NUS	NUS

		Lepidotrigla japonica	NAS			
Siluriformes	Pangasiidae	*Pangasianodon hypophthalmus*	CGCCTGTTTACCAAAAACAT	ACGTGATCTGAGTTCAGACCGG	TGCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
Teuthida	Loliginidae	*Doryteuthis gahi*	CGCCTGTTTATCAAAAACAT	ACATGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Doryteuthis opalescens	CGCCTGTTTATCAAAAACAT	ACATGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
		Doryteuthis pealeii	NUS	NUS	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG
	Ommastrephidae	*Dosidicus gigas*	CGCCTGTTTATCAAAAACAT	ACATGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG

		Ommastrephes bartramii	CGCCTGTTTATCAAAAACAT	ACATGATCTGAGTTCAGACCGG	TCCCCGTGCAGAAGCGG	GGGTTTACGACCTCGATGTTG

Table 3.1SM. Alignment between the P1 and P2 couples of primers used in this study and the available 16SrRNA gene sequences of the fish and cephalopod species used in this work. Mismatches have been highlighted in grey. O: Order; F: Family; S: Species; NAS: Not available sequences; NUS: Not usable sequences.