Table S16: Metabarcoding PCR assays developed and tested for this study.

PCR assay	Primer set used	Target Taxa	Gene	Primer sequence	Amplicon length (bp)	Reference	Assay T_a (°C)	Mostly detected
Copepod 3	Acartia F Acartia R	Calanoida	COI	5′ GGRGAYGATCARRTYTATAAYGT 3′ 5′ TTYATWCGWGGAAAHGCYATRTC 3′	~103	This study	52	Malacostraca, Hexanauplia, Actinopterygii
Acrocalanus	Acrocalanus F Acrocalanus R	Calanoida	COI	5′ CTGTTTAYCCWCCTCTTTCTAG 3′ 5′ TCTARTAAYATDCCAAATACTCGT 3′	~111	Pilot study	50	Hexanauplia
Branchiostoma	Branchiostoma F Branchiostoma R	Leptocardii	COI	5′ CRGAYATRGCKTTYCCYCG 3′ 5′ AAAATTGAYGAYACMCCWGC 3′	~169	Pilot study	50	Mollusca
Calanus	Calanus F Calanus R	Calanoida	COI	5′ GCWTCYGTNGAYTTYGCWAT 3′ 5′ CCSCCCACATCAYAMAATG 3′	~212	Pilot study	51	Very little
Calocalanus	Calocalanus F Calocalanus R	Calanoida	COI	5′ CTGGDTCNTTRATTGGRGATG 3′ 5′ GAHAAAGGDGGRTAAACWGTTC 3′	~225	Pilot study	51	Hexanauplia
Candacia	Candacia F Candacia R	Calanoida	COI	5′ GGVRSATSAGTDGACTTTGC 3′ 5′ GCAAANAGAGGYATWCGNTC 3′	~97	Pilot study	51	Hexanauplia
Cnidaria	Cnidaria F Cnidaria R	Cnidarians	COI	5′ CATGATHTTYTTCWTDGTMATGCC 3′ 5′ GTYCAWCCWGTWCCWRCYCC 3′	~145	This study	52	Cnidaria, Echinodermata
Copilia	Copilia F Copilia R	Cyclopoida	COI	5′ CGCAATCTTCTCTCTACACC 3′ 5′ GGTAATGAGAGGAGAAGTAGG 3′	~124	Pilot study	53	*Copilia mirabilis*
Creseis	Creseis F Creseis R	Gastropoda	COI	5′ CATTCTGACTHCTHCCTCCWTC 3′ 5′ GCMCCHAGAATAGAAGAAATACC 3′	~136	Pilot study	53	Mollusca
Crust 16S	Crust16S_F(short) Crust16S_R(short)	Crustaceans	16S rRNA	5′ GGGACGATAAGACCCTATA 3′ 5′ ATTACGCTGTTATCCCTAAAG 3′	~170	Berry et al. [1]	51	Malacostraca
Cyttarocylis	Cyttarocylis F Cyttarocylis R	Ciliophora	18S rRNA	5′ CGCGTAAATTACCCAATCCTG 3′ 5′ CTAACAGAAATCCAACTACGAGC 3′	~169	Pilot study	56	Chromis
Doliolum	Doliolum F Doliolum R	Thaliacea	18S rRNA	5′ GGGATGCGTGCTTTTATC 3′ 5′ CTTGGATGTGGTAGCCG 3′	~196	Pilot study	52	Very little
Eucalanus	Eucalanus F Eucalanus R	Calanoida	COI	5′ GTAGARAGAGGNGCHGGWAC 3′ 5′ GCAGTAATVACKACDGCYCA 3′	~184	Pilot study	52	Hexanauplia

PCR assay	Primer set used	Target Taxa	Gene	Primer sequence	Amplicon length (bp)	Reference	Assay T_a (°C)	Mostly detected
Fish 16S	Fish16sF/D 16s2R (degenerate)	Fish	16S rRNA	5′ GACCCTATGGAGCTTTAGAC 3′ 5′ CGCTGTTATCCCTADRGTAACT 3′	~200	F- Berry et al. [1] R-Deagle et al. [2]	54	Actinopterygii
Mollusca	Limacina F Limacina R	Mollusca	COI	5′ TAATTGGNGGVTTTGGRAAYTG 3′ 5′ GTTCAHCCTRAYCCTRCNCC 3′	~118	This study	52	Hexanauplia, Cnidaria, Mollusca
Copepod 2	Lucicutia F Lucicutia R	Calanoida	COI	5′ CCHGAYATAGCTTTYCCHCG 3′ 5′ GAAAAAATTGCAAAATCTACDGATC 3′	~134	This study	52	Hexanauplia, Mollusca
Lucifer	Lucifer F Lucifer R	Decapoda	COI	5′ GGAGAYGAYCARATTTATAATGTAG 3′ 5′ GAGGRAAWGCYATATCAGGAG 3′	~96	Pilot study	51	Hexanauplia
Oithona	Oithona F Oithona R	Cyclopoida	COI	5′ CCAGATATAGCHTTYCCHCG 3′ 5′ GAAGAHACHCCYGCYAARTG 3′	~163	Pilot study	52	Hexanauplia
Oncaea	Oncaea F Oncaea R	Cyclopoida	COI	5′ TTGGSKGKTTYGGWAATTG 3′ 5′ GCTAARTGAAGWSHAAAAATRG 3′	~194	Pilot study	48	Hexanauplia
Paracalanus	Paracalanus F Paracalanus R	Calanoida	COI	5′ CCRTTAATAYTAGGAGCAGC 3′ 5′ CTAAAATWGAACTWACWCCTGC 3′	~187	Pilot study	51	Hexanauplia
Pontellidae	Pontellidae F Pontellidae R	Calanoida	COI	5′ GRGCAGGWACDGGDTGRAC 3′ 5′ CGATCYAAAATTATYCCAAAHACWCG 3′	~133	Pilot study	54	Hexanauplia
S_Ceph 16S	S_Cephalopoda_F S_Cephalopoda_R	Cephalopoda	16S rRNA	5′ GCTRGAATGAATGGTTTGAC 3′ 5′ TCAWTAGGGTCTTCTCGTCC 3′	~70	Peters et al. [11]	50	Mollusca Crustacea
Copepod 1	Triconia F Triconia R	Cyclopoida	COI	5′ CAGGVTCTTTAYTWGGRGATG 3′ 5′ AAAATCTTATATTATTTARBCGRGG 3′	~131	This study	49	Hexanauplia, Mollusca
Urchin	Urchin F Urchin R	Echinodermata	16S rRNA	5′ GACGAGAAGACCCTGDCG 3′ 5′ CGCTGTTATCCCTRCGGTAAC 3′	~200-230	Pilot study	55	Echinodermata
WSP	WSP F WSP R	Decapoda	COI	5′ AGWYTWATTATYCGRGCWGA 3′ 5′ TCARTTWCCAAATCCWCC 3′	~107	Pilot study	48	Malacostraca

"F" refers to the forward primer; "R" refers to the reverse primer.