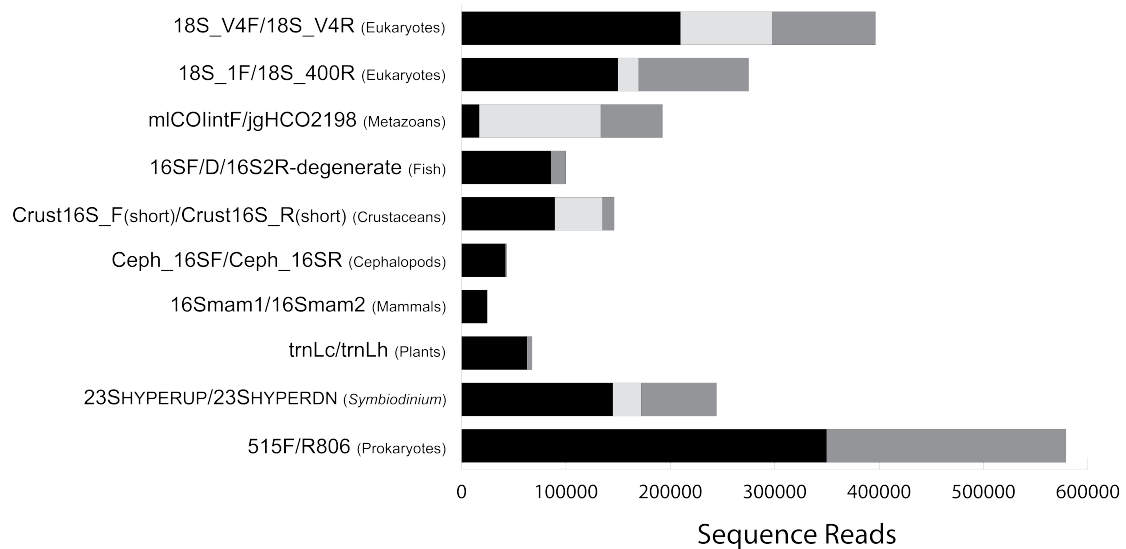


Ecosystem biomonitoring with eDNA: metabarcoding across the tree of life in a tropical marine environment

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Supplementary Data 1



Number of sequence reads per primer set used in assigning taxa from replicate seawater samples collected at Coral Bay in West Australia using eDNA metabarcoding. Bar graphs indicate the total number of sequence reads recovered using each primer set. Within each bar, black segments represent the number of reads that passed quality filtering and could be assigned a taxon; the light shaded grey represents the number of reads that passed quality filtering but could not be assigned a taxon; and the dark shaded grey represents the number of sequences removed after quality filtering. The target taxa of each primer set is indicated in brackets following the primer name.

Supplementary Data 2

The mean number and standard deviation of sequences passing quality filtering, unique sequences, and taxa for the ten metabarcoding assays used in this study across the nine water samples collected at Coral Bay, West Australia.

Assay	# Sequences \pm SD	# Unique Sequences \pm SD	# Taxa \pm SD
18S_V4 (Eukaryotes) ^a	12277 \pm 3529	757 \pm 147	53 \pm 8
18S_V1-V3 (Eukaryotes) ^b	6230 \pm 3202	477 \pm 171	42 \pm 5
COI (Metazoans) ^c	6457 \pm 598	716 \pm 61	33 \pm 5
16S (Fish)	9507 \pm 1869	301 \pm 43	23 \pm 4
16S (Crustaceans)	14998 \pm 3096	221 \pm 62	14 \pm 5
16S (Cephalopods)	4652 \pm 1639	63 \pm 11	8 \pm 4
trnL (Plants)	7901 \pm 2224	182 \pm 54	4 \pm 1
16S (Mammals)	2702 \pm 593	31 \pm 9	3 \pm 1
23S (<i>Symbiodinium</i>)	19118 \pm 2512	382 \pm 65	6 \pm 1 (clades)
16S (Prokaryotes)	38843 \pm 16208	2247 \pm 726	195 \pm 54 (OTUs)

^a represents the sequences and taxa recovered when using an annealing temperature of 50° C.

^b represents the sequences and taxa recovered when using an annealing temperature of 52° C.

^c represents the sequences and taxa recovered when using an annealing temperature of 46° C.

Supplementary Data 3 - All eukaryotic taxa

Count	Kingdom	Phylum	Class	Order	Family	Genus	Species
1	Animalia	Annelida	Phascolosomatidea	Phascolosomatiformes	Phascolosomatidae	<i>Phascolosoma</i>	
2	Animalia	Annelida	Polychaeta	Capitellida	Capitellidae	<i>Dasybranchus</i>	
3	Animalia	Annelida	Polychaeta	Eunicida	Dorvilleidae	<i>Dorvillea</i>	
4	Animalia	Annelida	Polychaeta	Eunicida	Eunicidae	<i>Eunice</i>	
5	Animalia	Annelida	Polychaeta	Phyllodocida	Chrysopetalidae	<i>Chrysopetalum</i>	
6	Animalia	Annelida	Polychaeta	Phyllodocida	Hesionidae		
7	Animalia	Annelida	Polychaeta	Phyllodocida	Nereididae	<i>Ceratonereis</i>	
8	Animalia	Annelida	Polychaeta	Phyllodocida	Syllidae	<i>Branchiosyllis</i>	
9	Animalia	Annelida	Polychaeta	Phyllodocida	Syllidae	<i>Erinaceusyllis</i>	
10	Animalia	Annelida	Polychaeta	Phyllodocida	Syllidae	<i>Exogone</i>	
11	Animalia	Annelida	Polychaeta	Phyllodocida	Syllidae	<i>Salvatoria</i>	
12	Animalia	Annelida	Polychaeta	Sabellida	Fabriciidae	<i>Fabricinuda</i>	
13	Animalia	Annelida	Polychaeta	Sabellida	Fabriciidae	<i>Pseudofabriciola</i>	
14	Animalia	Annelida	Polychaeta	Sabellida	Sabellidae		
15	Animalia	Annelida	Polychaeta	Sabellida	Serpulidae		
16	Animalia	Annelida	Polychaeta	Spionida	Chaetopteridae	<i>Phyllochaetopterus</i>	
17	Animalia	Annelida	Polychaeta	Spionida	Spionidae	<i>Aurospio</i>	
18	Animalia	Annelida	Polychaeta	Spionida	Spionidae	<i>Spio</i>	
19	Animalia	Annelida	Polychaeta	Terebellida	Terebellidae		
20	Animalia	Annelida	Polychaeta		Opheliidae		
21	Animalia	Annelida	Polychaeta		Orbiniidae		
22	Animalia	Annelida	Polychaeta		Protodrilidae	<i>Protodrilus</i>	
23	Animalia	Arthropoda	Insecta	Blattodea			
24	Animalia	Arthropoda	Insecta	Coleoptera	Endomychidae		
25	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	<i>Opsius</i>	
26	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	<i>Pheidole</i>	
27	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		
28	Animalia	Arthropoda	Malacostraca	Decapoda	Alpheidae	<i>Alpheus</i>	
29	Animalia	Arthropoda	Malacostraca	Decapoda	Axiidae	<i>Axiopsis</i>	
30	Animalia	Arthropoda	Malacostraca	Decapoda	Callinassidae		
31	Animalia	Arthropoda	Malacostraca	Decapoda	Diogenidae	<i>Calcinus</i>	<i>latens</i>
32	Animalia	Arthropoda	Malacostraca	Decapoda	Diogenidae	<i>Clibanarius</i>	
33	Animalia	Arthropoda	Malacostraca	Decapoda	Domeciidae		
34	Animalia	Arthropoda	Malacostraca	Decapoda	Dromiidae		
35	Animalia	Arthropoda	Malacostraca	Decapoda	Epiplatinae		
36	Animalia	Arthropoda	Malacostraca	Decapoda	Galatheididae		
37	Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	<i>Grapsus</i>	<i>albolineatus</i>
38	Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	<i>Pachygrapsus</i>	<i>minutus</i>
39	Animalia	Arthropoda	Malacostraca	Decapoda	Hippolytidae	<i>Hippolyte</i>	
40	Animalia	Arthropoda	Malacostraca	Decapoda	Macrophthalmidae	<i>Macrophthalmus</i>	
41	Animalia	Arthropoda	Malacostraca	Decapoda	Majidae	<i>Micippa</i>	<i>platipes</i>
42	Animalia	Arthropoda	Malacostraca	Decapoda	Majidae	<i>Schizophrys</i>	
43	Animalia	Arthropoda	Malacostraca	Decapoda	Majidae	<i>Tiarinia</i>	
44	Animalia	Arthropoda	Malacostraca	Decapoda	Matutoidea	<i>Ashtoret</i>	
45	Animalia	Arthropoda	Malacostraca	Decapoda	Munididae		
46	Animalia	Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Coralliocaris</i>	
47	Animalia	Arthropoda	Malacostraca	Decapoda	Penaeidae	<i>Melicertus</i>	
48	Animalia	Arthropoda	Malacostraca	Decapoda	Percnidae	<i>Percnon</i>	
49	Animalia	Arthropoda	Malacostraca	Decapoda	Pilumnidae		
50	Animalia	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Carupa</i>	
51	Animalia	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Charybdis</i>	
52	Animalia	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Libystes</i>	
53	Animalia	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Portunus</i>	<i>pelagicus</i>
54	Animalia	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Thalamita</i>	<i>admete</i>
55	Animalia	Arthropoda	Malacostraca	Decapoda	Tetraliidae	<i>Tetralia</i>	
56	Animalia	Arthropoda	Malacostraca	Decapoda	Trapeziidae	<i>Trapezia</i>	
57	Animalia	Arthropoda	Malacostraca	Decapoda	Varunidae		
58	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Atergatis</i>	
59	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Chlorodiella</i>	<i>laevissima</i>
60	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Cyclodius</i>	
61	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Etisus</i>	
62	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Liocarpilodes</i>	
63	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Liomera</i>	
64	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Macromedaeus</i>	
65	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Paraxanthias</i>	
66	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Pilodius</i>	<i>areolatus</i>
67	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Psaumis</i>	
68	Animalia	Arthropoda	Malacostraca	Stomatopoda	Nannosquillidae	<i>Pullosquilla</i>	
69	Animalia	Arthropoda	Maxillopoda	Calanoida	Acartiidae		
70	Animalia	Arthropoda	Maxillopoda	Cyclopoida			
71	Animalia	Arthropoda	Maxillopoda	Harpacticoida	Ameiridae		
72	Animalia	Arthropoda	Maxillopoda	Harpacticoida	Canuellidae		
73	Animalia	Arthropoda	Maxillopoda	Lithoglyptida	Lithoglyptidae	<i>Auritoglyptes</i>	
74	Animalia	Arthropoda	Maxillopoda	Poecilostomatoida	Catiniidae		
75	Animalia	Arthropoda	Maxillopoda	Poecilostomatoida	Lichomolgidae	<i>Lichomoligus</i>	

76	Animalia	Arthropoda	Maxillopoda	Poecilostomatoida	Pseudanthessiidae	<i>Pseudanthessius</i>	
77	Animalia	Brachiopoda	Rhynchonellata				
78	Animalia	Bryozoa	Gymnolaemata	Cheilostomata	Beaniidae		
79	Animalia	Bryozoa	Gymnolaemata	Cheilostomata	Bictectiporidae		
80	Animalia	Bryozoa	Gymnolaemata	Cheilostomata	Smittinidae		
81	Animalia	Chaetognatha		Biphragmophora	Spadellidae	<i>Spadella</i>	
82	Animalia		Actinopterygii	Anguilliformes	Muraenidae	<i>Gymnothorax</i>	<i>pseudothyrsoides</i>
83	Animalia	Chordata	Actinopterygii	Atheriniformes	Atherinidae	<i>Atherinomorus</i>	
84	Animalia	Chordata	Actinopterygii	Atheriniformes	Atherinidae	<i>Hypoatherina</i>	
85	Animalia	Chordata	Actinopterygii	Beloniformes	Belonidae	<i>Strongylura</i>	
86	Animalia	Chordata	Actinopterygii	Beloniformes	Belonidae	<i>Tylosurus</i>	<i>gavialoides</i>
87	Animalia	Chordata	Actinopterygii	Beloniformes	Hemiramphidae	<i>Hyporhamphus</i>	
88	Animalia	Chordata	Actinopterygii	Beryciformes	Holocentridae	<i>Sargocentron</i>	<i>rubrum</i>
89	Animalia	Chordata	Actinopterygii	Cluperiformes	Clupeidae	<i>Sardinella</i>	
90	Animalia	Chordata	Actinopterygii	Cluperiformes	Clupeidae	<i>Spratelloides</i>	
91	Animalia	Chordata	Actinopterygii	Cluperiformes	Engrulidae	<i>Engraulis</i>	
92	Animalia	Chordata	Actinopterygii	Mugiliformes	Mugilidae	<i>Mugil</i>	<i>cephalus</i>
93	Animalia	Chordata	Actinopterygii	Perciformes	Acanthuridae	<i>Acanthurus</i>	<i>trioestegus</i>
94	Animalia	Chordata	Actinopterygii	Perciformes	Apogonidae	<i>Apogon</i>	
95	Animalia	Chordata	Actinopterygii	Perciformes	Blenniidae	<i>Salaria</i>	
96	Animalia	Chordata	Actinopterygii	Perciformes	Carangidae	<i>Alectis</i>	
97	Animalia	Chordata	Actinopterygii	Perciformes	Carangidae	<i>Caranx</i>	
98	Animalia	Chordata	Actinopterygii	Perciformes	Carangidae	<i>Gnathanodon</i>	<i>speciosus</i>
99	Animalia	Chordata	Actinopterygii	Perciformes	Carangidae	<i>Scomberoides</i>	<i>commersonnianus</i>
100	Animalia	Chordata	Actinopterygii	Perciformes	Carangidae	<i>Trachinotus</i>	<i>blochii</i>
101	Animalia	Chordata	Actinopterygii	Perciformes	Chaetodontidae	<i>Chaetodon</i>	
102	Animalia	Chordata	Actinopterygii	Perciformes	Gerreidae	<i>Gerres</i>	
103	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	<i>Asterropteryx</i>	
104	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	<i>Bathygobius</i>	
105	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	<i>Gnatholepis</i>	
106	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	<i>Gobiodon</i>	<i>axillaris</i>
107	Animalia	Chordata	Actinopterygii	Perciformes	Haemulidae	<i>Plectorhinchus</i>	
108	Animalia	Chordata	Actinopterygii	Perciformes	Kyphosidae	<i>Kyphosus</i>	<i>bigibbus</i>
109	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Anampses</i>	
110	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Cheilinus</i>	<i>trilobatus</i>
111	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Cheilio</i>	<i>inermis</i>
112	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Chlorurus</i>	<i>sordidus</i>
113	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Coris</i>	<i>aygula</i>
114	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Cymolutes</i>	
115	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Halichoeres</i>	<i>nebulosus</i>
116	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Hemigymnus</i>	<i>melapterus</i>
117	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Labrichthys</i>	
118	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Labroides</i>	<i>dimidiatus</i>
119	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Stethojulis</i>	
120	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Thalassoma</i>	<i>lunare</i>
121	Animalia	Chordata	Actinopterygii	Perciformes	Lethrinidae	<i>Lethrinus</i>	<i>nebulosus</i>
122	Animalia	Chordata	Actinopterygii	Perciformes	Lutjanidae	<i>Lutjanus</i>	<i>fulviflamma</i>
123	Animalia	Chordata	Actinopterygii	Perciformes	Microdesmidae	<i>Gunnellichthys</i>	
124	Animalia	Chordata	Actinopterygii	Perciformes	Mullidae	<i>Parupeneus</i>	
125	Animalia	Chordata	Actinopterygii	Perciformes	Pinguipedidae		
126	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Abudefduf</i>	<i>vaigiensis</i>
127	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Cheiloprion</i>	<i>labiatus</i>
128	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Chromis</i>	<i>viridis</i>
129	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Dascyllus</i>	<i>aruanus</i>
130	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Pomacentrus</i>	<i>coelestis</i>
131	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Pomacentrus</i>	<i>moluccensis</i>
132	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Stegastes</i>	<i>nigricans</i>
133	Animalia	Chordata	Actinopterygii	Perciformes	Priacanthidae	<i>Heteropriacanthus</i>	
134	Animalia	Chordata	Actinopterygii	Perciformes	Pseudochromidae	<i>Pseudochromis</i>	
135	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Hipposcarus</i>	
136	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Scarus</i>	<i>schlegeli</i>
137	Animalia	Chordata	Actinopterygii	Perciformes	Scatophagidae	<i>Selenotoca</i>	
138	Animalia	Chordata	Actinopterygii	Perciformes	Serranidae	<i>Epinephelus</i>	<i>quoyanus</i>
139	Animalia	Chordata	Actinopterygii	Perciformes	Siganidae	<i>Siganus</i>	
140	Animalia	Chordata	Actinopterygii	Perciformes	Sillaginidae	<i>Sillago</i>	
141	Animalia	Chordata	Actinopterygii	Perciformes	Sphyraenidae	<i>Sphyraena</i>	
142	Animalia	Chordata	Actinopterygii	Scorpaeniformes	Sebastidae		
143	Animalia	Chordata	Actinopterygii	Siluriformes			
144	Animalia	Chordata	Actinopterygii	Syngnathiformes	Fistularidae	<i>Fistularia</i>	
145	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Balistidae	<i>Rhinecanthus</i>	<i>aculeatus</i>
146	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Diodontidae	<i>Diodon</i>	<i>hystrix</i>
147	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Monacanthidae	<i>Pervagor</i>	
148	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Ostraciidae	<i>Ostracion</i>	<i>cubicus</i>
149	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Tetraodontidae	<i>Arothron</i>	<i>hispidus</i>
150	Animalia	Chordata	Ascidiaceae	Enterogona	Asciidiidae		
151	Animalia	Chordata	Ascidiaceae	Pleurogona	Stylelidae	<i>Botryllus</i>	
152	Animalia	Chordata	Ascidiaceae	Stolidobranchia	Pyuridae	<i>Pyura</i>	

153	Animalia	Chordata	Chondrichthyes	Myliobatiformes	Dasyatidae	<i>Himantura</i>	<i>leoparda</i>
154	Animalia	Chordata	Chondrichthyes	Myliobatiformes	Dasyatidae	<i>Neotrygon</i>	<i>ningalooensis</i>
155	Animalia	Chordata	Chondrichthyes	Myliobatiformes	Dasyatidae	<i>Pastinachus</i>	<i>atrus</i>
156	Animalia	Chordata	Chondrichthyes	Myliobatiformes	Dasyatidae	<i>Taeniura</i>	
157	Animalia	Chordata	Chondrichthyes	Myliobatiformes	Myliobatidae	<i>Aetobatus</i>	
	Animalia	Chordata	Mammalia	Artiodactyla	Bovidae	<i>Bos</i>	
	Animalia	Chordata	Mammalia	Artiodactyla	Suidae	<i>Sus</i>	<i>scrofa</i>
158	Animalia	Chordata	Mammalia	Cetacea	Delphinidae		
	Animalia	Chordata	Mammalia	Primates	Hominidae	<i>Homo</i>	<i>sapiens</i>
159	Animalia	Chordata	Ophiuroidea	Ophiurida			
160	Animalia	Cnidaria	Anthozoa	Actinaria			
161	Animalia	Cnidaria	Anthozoa	Alcyonacea	Alcyoniidae		
162	Animalia	Cnidaria	Anthozoa	Scleractinia	Acroporidae	<i>Montipora</i>	
163	Animalia	Cnidaria	Anthozoa	Scleractinia	Pocilloporidae	<i>Pocillopora</i>	
164	Animalia	Cnidaria	Hydrozoa	Leptothecata	Campanulariidae	<i>Campanularia</i>	
165	Animalia	Cnidaria	Hydrozoa	Leptothecata	Campanulariidae	<i>Clytia</i>	
166	Animalia	Cnidaria	Hydrozoa	Leptothecata	Haleciidae	<i>Halecium</i>	
167	Animalia	Cnidaria	Hydrozoa	Leptothecata	Mitrocomidae	<i>Mitrocomella</i>	
168	Animalia	Cnidaria	Hydrozoa	Leptothecata	Plumulariidae	<i>Plumularia</i>	
169	Animalia	Cnidaria	Hydrozoa	Leptothecata	Sertulariidae		
170	Animalia	Cnidaria	Bivalvulida	Myxidiadae			
171	Animalia	Ctenophora	Tentaculata	Platyctenida	Coeloplanidae	<i>Vallicula</i>	
172	Animalia	Echinodermata	Echinoidea				
173	Animalia	Echinodermata	Holothuroidea	Aspidochirotida	Holothuridae	<i>Holothuria</i>	<i>atra</i>
174	Animalia	Echinodermata	Ophiuroidea	Ophiurida	Amphiuridae	<i>Amphipholis</i>	
175	Animalia	Echinodermata	Ophiuroidea	Ophiurida	Ophiocomidae	<i>Ophiocoma</i>	
176	Animalia	Echinodermata	Ophiuroidea	Ophiurida	Ophiothrichidae	<i>Macrophiothrix</i>	<i>caenosa</i>
177	Animalia	Gastrotricha		Chaetonotida	Chaetonotidae		
178	Animalia	Mollusca	Bivalvia	Limoida	Limidae	<i>Limaria</i>	
179	Animalia	Mollusca	Bivalvia	Lucinoida	Lucinidae		
180	Animalia	Mollusca	Bivalvia	Mytiloida	Mytilidae		
181	Animalia	Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Lopha</i>	
182	Animalia	Mollusca	Bivalvia	Pterioidea	Isognomonidae	<i>Isognomon</i>	
183	Animalia	Mollusca	Bivalvia	Solemyida	Solemyidae	<i>Solemya</i>	
184	Animalia	Mollusca	Bivalvia	Veneroida	Cardiidae	<i>Fragum</i>	
185	Animalia	Mollusca	Bivalvia	Veneroida	Lucinidae		
186	Animalia	Mollusca	Bivalvia	Veneroida	Petricolidae		
187	Animalia	Mollusca	Cephalopoda	Octopoda	Octopodidae	<i>Abdopus</i>	
188	Animalia	Mollusca	Cephalopoda	Octopoda	Octopodidae	<i>Octopus</i>	<i>cyanea</i>
189	Animalia	Mollusca	Cephalopoda	Octopoda	Octopodidae	<i>Octopus</i>	
190	Animalia	Mollusca	Cephalopoda	Teuthida	Loliginidae	<i>Sepioteuthis</i>	
191	Animalia	Mollusca	Gastropoda	Caenogastropoda	Cerithiidae	<i>Cerithium</i>	<i>atromarginatum</i>
192	Animalia	Mollusca	Gastropoda	Caenogastropoda	Cerithiidae	<i>Cerithium</i>	<i>rostratum</i>
193	Animalia	Mollusca	Gastropoda	Caenogastropoda	Cerithiidae	<i>Clypeomorus</i>	
194	Animalia	Mollusca	Gastropoda	Caenogastropoda	Litiopidae	<i>Alaba</i>	
195	Animalia	Mollusca	Gastropoda	Caenogastropoda	Turritellidae		
196	Animalia	Mollusca	Gastropoda	Cerithimorpha	Cerithidae	<i>Cerithium</i>	
197	Animalia	Mollusca	Gastropoda	Hypsogastropoda	Strombidae	<i>Strombus</i>	
198	Animalia	Mollusca	Gastropoda	Nudipleura			
199	Animalia	Mollusca	Gastropoda	Vetigastropoda	Haliotidae	<i>Haliotis</i>	<i>asinina</i>
200	Animalia	Mollusca	Gastropoda	Vetigastropoda	Trochidae	<i>Pseudostomatella</i>	
201	Animalia	Mollusca	Gastropoda	Vetigastropoda	Trochidae	<i>Rossiteria</i>	
202	Animalia	Mollusca	Gastropoda	Vetigastropoda	Trochidae	<i>Stomatella</i>	<i>impertusa</i>
203	Animalia	Mollusca	Gastropoda	Vetigastropoda	Trochidae	<i>Stomatia</i>	
204	Animalia	Mollusca	Gastropoda	Vetigastropoda	Turbinidae	<i>Turbo (Marmarostoma)</i>	
205	Animalia	Mollusca	Gastropoda		Littorinidae	<i>Echinolittorina</i>	
206	Animalia	Mollusca	Gastropoda		Strombidae	<i>Lambis</i>	
207	Animalia	Mollusca	Polyplacophora	Neoloricata	Mopaliidae		
208	Animalia	Nematoda	Chromadorea	Chromadorida	Chromadoridae		
209	Animalia	Nemertea	Enopla	Monostilifera	Tetrastemmatidae	<i>Tetrastemma</i>	
210	Animalia	Nemertea	Palaeonemertea		Cephalothricidae	<i>Cephalothrix</i>	
211	Animalia	Platyhelminthes	Monogenea				
212	Animalia	Platyhelminthes	Rhabditophora	Polycladida			
213	Animalia	Platyhelminthes	Trematoda				
214	Animalia	Platyhelminthes	Turbellaria	Macrostomida	Macrostomidae		
215	Animalia	Platyhelminthes	Turbellaria	Macrostomida	Microstomidae		
216	Animalia	Platyhelminthes	Turbellaria	Rhabdocoela			
217	Animalia	Porifera	Calcarea				
218	Animalia	Porifera	Demospongiae	Dictyoceratida			
219	Animalia	Porifera	Demospongiae	Hadromerida	Clionidae	<i>Pione</i>	
220	Animalia	Porifera	Demospongiae	Halichondrida	Halichondriidae	<i>Halichondria</i>	
221	Animalia	Porifera	Demospongiae	Halichondrida	Halichondriidae	<i>Hymeniacion</i>	
222	Animalia	Porifera	Demospongiae	Haplosclerida			
223	Animalia	Porifera	Demospongiae	Poecilosclerida	Desmacellidae	<i>Biemna</i>	
224	Animalia	Porifera	Demospongiae	Poecilosclerida	Microcionidae	<i>Clathria</i>	
225	Animalia	Porifera	Homoscleromorpha	Homosclerophorida	Plakinidae		
226	Animalia	Porifera		Homosclerophorida	Oscarellidae	<i>Oscarella</i>	

227	Animalia	Xenacoelomorpha	Acoela		Isodiametridae		
228	Chromista	Bigyra	Labyrinthulomycetes	Labyrinthulomycetes	Thraustochytriaceae	<i>Aplanochytrium</i>	
229	Chromista	Bigyra		Bicosoecida	Bicosoecidae	<i>Bicosoeca</i>	
230	Chromista	Bigyra		Bicosoecida		<i>Ceacitellus</i>	
231	Chromista	Cercozoa	Chlorarachnea	Chlorarchniida	Chlorarachniaceae	<i>Bigelowiella</i>	
232	Chromista	Cercozoa	Imbricatea	Thaumatomadida	Thaumatomastigidae		
233	Chromista	Cercozoa	Sarcomonadea	Sarcomonadida	Cercomonadidae	<i>Massisteria</i>	
234	Chromista	Cercozoa	Thecofilosea	Cryomonadida		<i>Cryothecomonas</i>	
235	Chromista	Cercozoa				<i>Minorisa</i>	
236	Chromista	Ciliophora	Heterotrichea	Heterotrichida	Condylostomatidae	<i>Condylostoma</i>	
237	Chromista	Ciliophora	Litostomatea	Haptorida	Lacrymariidae	<i>Lacrymaria</i>	
238	Chromista	Ciliophora	Litostomatea	Pleurostomatida	Litonotidae	<i>Litonotus</i>	
239	Chromista	Ciliophora	Nassophorea	Synhymeniida	Orthodonellidae	<i>Zosterodasys</i>	
240	Chromista	Ciliophora	Oligohymenophorea	Hymenostomatida			
241	Chromista	Ciliophora	Oligohymenophorea	Peniculida			
242	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Cinetochilidae	<i>Cinetochilum</i>	
243	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Cohnilembidae	<i>Cohnilembus</i>	
244	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Cohnilembidae	<i>Porpostoma</i>	
245	Chromista	Ciliophora	Oligohymenophorea	Oligohymenophorea	Loxocephalidae	<i>Cardiostomatella</i>	
246	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Orchitophryidae	<i>Metanophrys</i>	
247	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Orchitophryidae	<i>Paranophrys</i>	
248	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Philasteridae		
249	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Uronematidae	<i>Uronema</i>	<i>heteromarinum</i>
250	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Uronematidae	<i>Uronemella</i>	
251	Chromista	Ciliophora	Oligohymenophorea	Pleuronematida	Cyclidiidae	<i>Cyclidium</i>	
252	Chromista	Ciliophora	Oligohymenophorea	Pleuronematida	Pleurodematidae	<i>Pleuronema</i>	<i>coronatum</i>
253	Chromista	Ciliophora	Phyllopharyngea	Dysteriida	Dysteriidae	<i>Dysteria</i>	
254	Chromista	Ciliophora	Prostomatea	Prorodontida	Colepidae	<i>Tiarina</i>	
255	Chromista	Ciliophora	Prostomatea	Prorodontida	Urotrichidae	<i>Urotricha</i>	
256	Chromista	Ciliophora	Spirotrichea	Choreotrichida	Strobiliidiidae	<i>Pelagostrobilidium</i>	
257	Chromista	Ciliophora	Spirotrichea	Choreotrichida	Strobiliidiidae	<i>Rimostrombidium</i>	
258	Chromista	Ciliophora	Spirotrichea	Choreotrichida	Strombidinopsidae	<i>Parastrombidinopsis</i>	
259	Chromista	Ciliophora	Spirotrichea	Choreotrichida	Strombidinopsidae	<i>Strombidinopsis</i>	
260	Chromista	Ciliophora	Spirotrichea	Euplotida	Oronchiidae	<i>Diophrys</i>	
261	Chromista	Ciliophora	Spirotrichea	Sporadotrichida	Oxytrichidae	<i>Hemigastrostyla</i>	
262	Chromista	Ciliophora	Spirotrichea	Tintinnida	Tintinnidae		
263	Chromista	Ciliophora	Spirotrichea	Urostyliida	Holostichidae	<i>Holosticha</i>	<i>diademata</i>
264	Chromista	Ciliophora	Spirotrichea		Cyrtostrombidiidae	<i>Cyrtostrombidium</i>	
265	Chromista	Ciliophora	Spirotrichea		Strombidiidae	<i>Strombidium</i>	
266	Chromista	Ciliophora	Spirotrichea		Totoniidae	<i>Pseudotontonia</i>	
267	Chromista	Ciliophora	Spirotrichea			<i>Protocruzia</i>	
268	Chromista	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae		
269	Chromista	Cryptophyta	Cryptophyceae	Cryptomonadales	Goniomonadaceae	<i>Goniomonas</i>	
270	Chromista	Cryptophyta	Cryptophyceae	Cryptomonadales	Hemiselmidae	<i>Hemiselmis</i>	
271	Chromista	Cryptophyta	Cryptophyceae	Pyrenomonadales	Geminigeraceae	<i>Proteomonas</i>	
272	Chromista	Cryptophyta	Cryptophyceae	Pyrenomonadales	Geminigeraceae	<i>Teleaulax</i>	
273	Chromista	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	<i>Rhodomonas</i>	
274	Chromista	Cryptophyta	Katablepharidophyta		Katablepharidaceae		
275	Chromista	Cryptophyta	Telonemea	Telonemida		<i>Telonema</i>	
276	Chromista	Haptophyta	Chrysophyceae	Chromulinales	Chromulinaceae		
277	Chromista	Haptophyta	Coccolithophyceae	Phaeocystales	Phaeocystaceae	<i>Phaeocystis</i>	
278	Chromista	Haptophyta	Coccolithophyceae	Prymnesiales	Chrysochromulinaceae	<i>Chrysochromulina</i>	
279	Chromista	Haptophyta	Pavlovophycidae	Pavlovales	Pavlovaceae	<i>Pavlova</i>	<i>pinguis</i>
280	Chromista	Haptophyta	Prymnesiophyceae	Isochrysidales	Noelaerhabdaceae	<i>Emiliana</i>	
281	Chromista	Heliozoa	Centrohelea	Centrohelida	Acanthocystidae	<i>Raineriophrys</i>	
282	Chromista	Myxozoa	Dinophyceae	Gonyaulacales	Amphidomataceae	<i>Amphidoma</i>	
283	Chromista	Myxozoa	Dinophyceae	Gonyaulacales	Amphidomataceae	<i>Azadinium</i>	
284	Chromista	Myxozoa	Dinophyceae	Gonyaulacales	Ceratiaceae	<i>Neoceratium</i>	
285	Chromista	Myxozoa	Dinophyceae	Gonyaulacales	Gonyaulacaceae	<i>Alexandrium</i>	
286	Chromista	Myxozoa	Dinophyceae	Gonyaulacales	Gonyaulacaceae	<i>Gonyaulax</i>	
287	Chromista	Myxozoa	Dinophyceae	Gymnodiniales	Brachidiniaceae	<i>Brachidinium</i>	
288	Chromista	Myxozoa	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Amphidinium</i>	<i>klebsii</i>
289	Chromista	Myxozoa	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Cochlodinium</i>	
290	Chromista	Myxozoa	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Gymnodinium</i>	
291	Chromista	Myxozoa	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Gyrodinium</i>	
292	Chromista	Myxozoa	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Lepidodinium</i>	
293	Chromista	Myxozoa	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Paragymnodinium</i>	
294	Chromista	Myxozoa	Dinophyceae	Gymnodiniales	Karenaceae	<i>Karenia</i>	
295	Chromista	Myxozoa	Dinophyceae	Gymnodiniales	Karenaceae	<i>Karlodinium</i>	
296	Chromista	Myxozoa	Dinophyceae	Gymnodiniales	Warnowiaceae	<i>Warnowia</i>	
297	Chromista	Myxozoa	Dinophyceae	Lophodiniiales	Lophodiniaceae	<i>Woloszynskia</i>	
298	Chromista	Myxozoa	Dinophyceae	Peridinales	Glenodiniaceae	<i>Glenodinium</i>	
299	Chromista	Myxozoa	Dinophyceae	Peridinales	Heterocapsaceae	<i>Heterocapsa</i>	
300	Chromista	Myxozoa	Dinophyceae	Peridinales	Peridiniaceae	<i>Pentapharsodinium</i>	
301	Chromista	Myxozoa	Dinophyceae	Peridinales	Peridiniaceae	<i>Peridinium</i>	
302	Chromista	Myxozoa	Dinophyceae	Peridinales	Pfiesteriaceae		
303	Chromista	Myxozoa	Dinophyceae	Peridinales	Podolampaceae	<i>Blepharocysta</i>	

304	Chromista	Myzozoa	Dinophyceae	Peridinales	Podolampaceae	<i>Podolampas</i>	
305	Chromista	Myzozoa	Dinophyceae	Peridinales	Protoperidiniaceae	<i>Protoperidinium</i>	
306	Chromista	Myzozoa	Dinophyceae	Peridinales	Thoracosphaeraeae	<i>Scrippsiella</i>	
307	Chromista	Myzozoa	Dinophyceae	Peridinales		<i>Galeidinium</i>	
308	Chromista	Myzozoa	Dinophyceae	Prorocentrales	Prorocentraceae	<i>Exuviaella</i>	
309	Chromista	Myzozoa	Dinophyceae	Prorocentrales	Prorocentraceae	<i>Prorocentrum</i>	
310	Chromista	Myzozoa	Dinophyceae	Pyrocystales	Pyrocystaceae	<i>Dissodinium</i>	
311	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade A
312	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade B
313	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade C
314	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade D
315	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade F
316	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade G
317	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade H
318	Chromista	Myzozoa	Dinophyceae	Syndiniales	Amoebophryaceae	<i>Amoebophrya</i>	
319	Chromista	Myzozoa	Dinophyceae	Syndiniales	Duboscquellidae	<i>Duboscquella</i>	
320	Chromista	Myzozoa	Dinophyceae	Syndiniales	Syndiniaceae	<i>Hematodinium</i>	<i>perezi</i>
321	Chromista	Myzozoa	Dinophyceae			<i>Stoeceria</i>	
322	Chromista	Myzozoa	Gregarinasina	Eugregarinorida	Gregarinidae		
323	Chromista	Myzozoa	Gregarinasina	Eugregarinorida	Lecudinidae	<i>Lankesteria</i>	
324	Chromista	Myzozoa	Gregarinasina	Eugregarinorida	Lecudinidae	<i>Lecudina</i>	
325	Chromista	Myzozoa	Perkinsea	Perkinsida	Perkinsidae	<i>Perkinsus</i>	
326	Chromista	Ochrophyta	Bacillariophyceae	Achnanthes			
327	Chromista	Ochrophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	<i>Cylindrotheca</i>	
328	Chromista	Ochrophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	<i>Nitzschia</i>	
329	Chromista	Ochrophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	<i>Pseudo-nitzschia</i>	
330	Chromista	Ochrophyta	Bacillariophyceae	Naviculales	Naviculaceae	<i>Meuniera</i>	
331	Chromista	Ochrophyta	Bacillariophyceae	Naviculales	Naviculaceae	<i>Navicula</i>	
332	Chromista	Ochrophyta	Bacillariophyceae	Naviculales	Pleurosigmataceae		
333	Chromista	Ochrophyta	Bacillariophyceae	Thalassiosiphales	Catenulaceae	<i>Amphora</i>	
334	Chromista	Ochrophyta	Chrysophyceae	Chromulinales	Paraphysomonadaceae	<i>Paraphysomonas</i>	
335	Chromista	Ochrophyta	Coccolodiscophyceae	Chaetocerotales	Chaetocerotaceae	<i>Chaetoceros</i>	
336	Chromista	Ochrophyta	Coccolodiscophyceae	Corethrales	Corethraceae	<i>Corethron</i>	
337	Chromista	Ochrophyta	Coccolodiscophyceae	Coccolodiscals	Hemidiscaceae	<i>Actinocyclus</i>	
338	Chromista	Ochrophyta	Coccolodiscophyceae	Leptocylindrales	Leptocylindraceae		
339	Chromista	Ochrophyta	Coccolodiscophyceae	Rhizoleniales	Rhizoleniaceae	<i>Guinardia</i>	
340	Chromista	Ochrophyta	Coccolodiscophyceae	Rhizoleniales	Rhizoleniaceae	<i>Rhizosolenia</i>	
341	Chromista	Ochrophyta	Coccolodiscophyceae	Thalassiosirales	Skeletonemataceae	<i>Skeletonema</i>	<i>menzellii</i>
342	Chromista	Ochrophyta	Coccolodiscophyceae	Thalassiosirales	Thalassiosiraceae	<i>Minidiscus</i>	
343	Chromista	Ochrophyta	Coccolodiscophyceae	Thalassiosirales	Thalassiosiraceae	<i>Thalassiosira</i>	
344	Chromista	Ochrophyta	Dictyochophyceae	Florentiellales		<i>Florentiella</i>	
345	Chromista	Ochrophyta	Dictyochophyceae	Pedinellales		<i>Pseudopedinella</i>	
346	Chromista	Ochrophyta	Dictyochophyceae	Rhizochromulinales		<i>Rhizochromulina</i>	
347	Chromista	Ochrophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	<i>Opephora</i>	
348	Chromista	Ochrophyta	Fragilariophyceae	Rhaphoneidales	Rhaphoneidaceae		
349	Chromista	Ochrophyta	Fragilariophyceae	Striatellales		<i>Florella</i>	
350	Chromista	Ochrophyta	Fragilariophyceae	Thalassionematales	Thalassionemataceae	<i>Thalassionema</i>	
351	Chromista	Ochrophyta	Fragilariophyceae		Licmophoraceae	<i>Licmosphenia</i>	
352	Chromista	Ochrophyta	Mediophyceae	Cymatosirales	Cymatosiraceae	<i>Minutocellus</i>	
353	Chromista	Ochrophyta	Mediophyceae	Hemiaulales	Hemiaulaceae	<i>Cerataulina</i>	
354	Chromista	Ochrophyta	Mediophyceae	Thalassiosirales	Stephanodiscaceae	<i>Cyclotella</i>	
355	Chromista	Ochrophyta	Pelagophyceae	Pelagomonadales		<i>Pelagomonas</i>	
356	Chromista	Ochrophyta	Pelagophyceae	Sarcinochrysidales			
357	Chromista	Ochrophyta	Phaeophyceae	Dictyotales	Dictyotaceae	<i>Lobophora</i>	
358	Chromista	Ochrophyta	Phaeophyceae	Fucales	Sargassaceae	<i>Sargassum</i>	<i>ilicifolium</i>
359	Chromista	Ochrophyta	Raphidophyceae			<i>Psammomonas</i>	
360	Chromista	Ochrophyta		Dictyotales	Dictyotaceae	<i>Dictyota</i>	
361	Chromista	Ochrophyta		Dictyotales	Dictyotaceae	<i>Lobophora</i>	
362	Chromista	Ochrophyta		Ectocarpales	Chordariaceae		
363	Chromista	Ochrophyta		Ectocarpales	Scytosiphonaceae	<i>Hydroclathrus</i>	
364	Chromista	Ochrophyta		Fucales	Sargassaceae		
365	Chromista	Ochrophyta		Pinguiochrysidales	Pinguiochrysidaceae	<i>Pinguiochrysis</i>	
366	Chromista	Ochrophyta		Sphacelariales	Sphacelariaceae		
367	Chromista	Oomycota	Oomycetes	Lagenidiales	Haliphthoraceae		
368	Chromista	Oomycota	Oomycetes	Myzocytiosporales	Eurychasmataceae		
369	Chromista	Oomycota	Oomycetes	Olpidiosporales			
370	Chromista	Radiozoa	Acantharea	Arthracanthida			
371	Chromista	Radiozoa	Polycystinea	Spumellaria	Litheliidae	<i>Larcopyle</i>	
372	Chromista					<i>Chromerida</i>	
373	Fungi	Ascomycota	Dothideomycetes	Capnodiales	Cladosporiaceae	<i>Cladosporium</i>	
374	Fungi	Ascomycota	Dothideomycetes	Pleosporales	Pleosporaceae		
375	Fungi	Ascomycota	Eurotiomycetes	Eurotiales	Trichocomaceae	<i>Talaromyces</i>	
376	Fungi	Ascomycota	Saccharomycetes	Saccharomycetales			
377	Fungi	Basidiomycota	Agaricomycetes	Agaricales			
378	Fungi	Basidiomycota	Malasseziomycetes	Malasseziales	Malasseziaceae	<i>Malassezia</i>	
379	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytridiaceae	<i>Chytridium</i>	
380	Fungi	Entomophthoromycota	Basidiobolomycetes	Basidiobales	Basidiobolaceae	<i>Basidiobolus</i>	

381	Plantae	Chlorophyta	Chlorodendrophyceae	Chlorodendrales	Chlorodendraceae	<i>Tetraselmis</i>
382	Plantae	Chlorophyta	Chlorophyceae	Chlamydomonadales		
383	Plantae	Chlorophyta	Mamiellophyceae	Dolichomastigaceae	Crustomastigaceae	
384	Plantae	Chlorophyta	Mamiellophyceae	Dolichomastigaceae	Dolichomastigaceae	
385	Plantae	Chlorophyta	Mamiellophyceae	Mamiellales	Bathycoccaceae	<i>Bathycoccus</i>
386	Plantae	Chlorophyta	Mamiellophyceae	Mamiellales	Bathycoccaceae	<i>Ostreococcus</i>
387	Plantae	Chlorophyta	Mamiellophyceae	Mamiellales	Mamiellaceae	<i>Mamiella</i>
388	Plantae	Chlorophyta	Mamiellophyceae	Mamiellales	Mamiellaceae	<i>Mantoniella</i>
389	Plantae	Chlorophyta	Mamiellophyceae	Mamiellales	Mamiellaceae	<i>Micromonas</i>
390	Plantae	Chlorophyta	Nephroselmidophyceae			<i>Nephroselmis</i>
391	Plantae	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Mantoniella</i>
392	Plantae	Chlorophyta	Prasinophyceae	Pseudoscourfieldiales	Pycnococcaceae	<i>Prasinoderma</i>
393	Plantae	Chlorophyta	Prasinophyceae	Pseudoscourfieldiales	Pycnococcaceae	<i>Pseudoscourfieldia</i>
394	Plantae	Chlorophyta	Trebouxiophyceae			
395	Plantae	Chlorophyta	Ulvophyceae	Dasycladales	Polyphysaceae	<i>Acetabularia</i>
396	Plantae	Chlorophyta	Ulvophyceae	Oltmannsiellopsidales	Oltmannsiellopsidaceae	<i>Oltmannsiellopsis</i>
397	Plantae	Chlorophyta	Ulvophyceae	Ulvaes	Ulvaceae	<i>Ulva</i>
398	Plantae	Chlorophyta	Ulvophyceae	Ulvaes	Ulvellaceae	<i>Ochlochaete</i>
399	Plantae	Chlorophyta		Prasinococcales		<i>Prasinoderma</i>
400	Plantae	Chlorophyta		Pyramimonadales		<i>Pyramimonas</i>
401	Plantae	Chlorophyta			Prasinophyceae	
402	Plantae	Chlorophyta			Pycnococcaceae	<i>Pycnococcus</i>
403	Plantae	Chlorophyta	Glaucozystophyceae		Cyanophoraceae	<i>Cyanophora</i>
404	Plantae	Rhodophyta	Florideophyceae	Acrochaetiales	Acrochaetiaceae	<i>Acrochaetium</i>
405	Plantae	Rhodophyta	Florideophyceae	Ceramiales	Ceramiaceae	
406	Plantae	Rhodophyta	Florideophyceae	Ceramiales	Rhodomelaceae	
407	Plantae	Rhodophyta	Florideophyceae	Corallinales		
408	Plantae	Rhodophyta	Florideophyceae	Gigartinales	Peyssonneliaceae	<i>Sonderopelta</i>
409	Plantae	Rhodophyta	Florideophyceae	Gigartinales	Solieriaceae	
410	Plantae	Rhodophyta	Florideophyceae	Rhodymeniales	Lomentariaceae	
411	Plantae	Rhodophyta	Florideophyceae	Rhodymeniales	Rhodymeniaceae	<i>Coelothrix</i>
412	Plantae	Streptophyta	Equisetopsida	Apiales	Apiaceae	
413	Plantae	Streptophyta	Equisetopsida	Asterales	Asteraceae	
414	Plantae	Streptophyta	Equisetopsida	Brassicales	Caricaceae	
415	Plantae	Streptophyta	Equisetopsida	Caryophyllales	Amaranthaceae	
416	Plantae	Streptophyta	Equisetopsida	Cucurbitales	Cucurbitaceae	
417	Plantae	Streptophyta	Equisetopsida	Fabales	Fabaceae	
418	Plantae	Streptophyta	Equisetopsida	Poales	Poaceae	
419	Plantae	Streptophyta	Equisetopsida	Sapindales	Rutaceae	
420	Plantae	Streptophyta	Equisetopsida	Solanales	Solanaceae	<i>Solanum</i>
421	Plantae	Streptophyta		Lamiales	Acanthaceae	<i>Lankesteria</i>
422	Plantae	Streptophyta		Magnoliales	Magnoliaceae	
423	Protozoa	Amoebozoa		Dactylopodida	Vexilliferidae	<i>Neoparamoeba</i>
424	Protozoa	Apusozoa			Apusomonadidae	<i>Thecamonas</i>
425	Protozoa	Apusozoa			Planomonadidae	<i>Planomonas</i>
426	Protozoa	Apusozoa				<i>Ancyromonas</i>
427	Protozoa	Choanozoa	Choanoflagellata	Choanoflagellida	Codonosigidae	<i>Monosiga</i>
428	Protozoa	Choanozoa	Choanoflagellata	Choanoflagellida	Stephanoecidae	<i>Diaphanoeca</i>
429	Protozoa	Choanozoa	Choanoflagellata	Choanoflagellida	Stephanoecidae	<i>Stephanoeca</i>
430	Protozoa	Choanozoa	Ichthyosporea			
431	Protozoa	Picozoa	Picomonadea	Picomonadida	Picomonadidae	
432	Protozoa	Picozoa				
433	Unranked					<i>Cantina</i>
434	Unranked					<i>Pirsonia</i>

Highlighted taxa were removed from the analysis

Supplementary Data 3 - 18SV4 taxa

Count	Kingdom	Phylum	Class	Order	Family	Genus	Species
1	Animalia	Annelida	Polychaeta	Capitellida	Capitellidae		
2	Animalia	Annelida	Polychaeta	Eunicida	Eunicidae	<i>Eunice</i>	
3	Animalia	Annelida	Polychaeta	Phyllodocida	Chrysopetalidae	<i>Chrysopetalum</i>	
4	Animalia	Annelida	Polychaeta	Phyllodocida	Hesionidae		
5	Animalia	Annelida	Polychaeta	Phyllodocida	Nereididae	<i>Ceratonereis</i>	
6	Animalia	Annelida	Polychaeta	Phyllodocida	Syllidae	<i>Branchiosyllis</i>	
7	Animalia	Annelida	Polychaeta	Phyllodocida	Syllidae	<i>Erinaceusyllis</i>	
8	Animalia	Annelida	Polychaeta	Phyllodocida	Syllidae	<i>Exogone</i>	
9	Animalia	Annelida	Polychaeta	Sabellida	Fabriciidae	<i>Fabricinuda</i>	
10	Animalia	Annelida	Polychaeta	Sabellida	Fabriciidae	<i>Pseudofabriciola</i>	
11	Animalia	Annelida	Polychaeta	Sabellida	Serpulidae		
12	Animalia	Annelida	Polychaeta	Spionida	Chaetopteridae		
13	Animalia	Annelida	Polychaeta	Spionida	Spionidae	<i>Aurospio</i>	
14	Animalia	Annelida	Polychaeta	Spionida	Spionidae	<i>Spio</i>	
15	Animalia	Annelida	Polychaeta	Terebellida	Terebellidae		
16	Animalia	Annelida	Polychaeta		Opheliidae		
17	Animalia	Annelida	Polychaeta		Orbiniidae		
18	Animalia	Annelida	Polychaeta		Protodrilidae	<i>Protodrilus</i>	
19	Animalia	Arthropoda	Maxillopoda	Cyclopoida			
20	Animalia	Arthropoda	Maxillopoda	Harpacticoida	Ameiridae		
21	Animalia	Arthropoda	Maxillopoda	Harpacticoida	Canuellidae		
22	Animalia	Arthropoda	Maxillopoda	Poecilostomatoida	Catiniidae		
23	Animalia	Arthropoda	Maxillopoda	Poecilostomatoida	Lichomolgidae	<i>Lichomolgus</i>	
24	Animalia	Arthropoda	Maxillopoda	Poecilostomatoida	Pseudanthessiidae	<i>Pseudanthessus</i>	
25	Animalia	Brachiopoda	Rhynchonellata				
26	Animalia	Chaetognatha		Biphragmophora	Spadellidae	<i>Spadella</i>	
27	Animalia	Chordata	Actinopterygii	Cluperiformes	Clupeidae		
28	Animalia	Chordata	Actinopterygii	Scorpaeniformes			
29	Animalia	Chordata	Actinopterygii	Siluriformes			
30	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Tetraodontidae		
31	Animalia	Chordata	Ascidiacea				
32	Animalia	Chordata	Chondrichthyes	Myliobatiformes	Dasyatidae		
33	Animalia	Chordata	Ophiuroidea	Ophiurida			
34	Animalia	Cnidaria	Anthozoa	Actinaria			
35	Animalia	Cnidaria	Anthozoa	Scleractinia	Acroporidae	<i>Montipora</i>	
36	Animalia	Cnidaria	Anthozoa	Scleractinia	Pocilloporidae	<i>Pocillopora</i>	
37	Animalia	Cnidaria	Hydrozoa	Leptothecata	Campanulariidae		
38	Animalia	Cnidaria	Hydrozoa	Leptothecata	Mitrocomidae	<i>Mitrocomella</i>	
39	Animalia	Cnidaria	Hydrozoa	Leptothecata	Sertulariidae		
40	Animalia	Ctenophora					
41	Animalia	Echinodermata	Echinoidea				
42	Animalia	Echinodermata	Holothuroidea				
43	Animalia	Mollusca	Bivalvia	Limoida	Limidae	<i>Limaria</i>	
44	Animalia	Mollusca	Bivalvia	Lucinoida	Lucinidae		
45	Animalia	Mollusca	Bivalvia	Mytiloida	Mytilidae		
46	Animalia	Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Lopha</i>	
47	Animalia	Mollusca	Bivalvia	Pterioida	Isognomonidae	<i>Isognomon</i>	
48	Animalia	Mollusca	Bivalvia	Veneroida	Petricolidae		
49	Animalia	Mollusca	Gastropoda				
50	Animalia	Mollusca	Polyplacophora	Neoloricata	Mopaliidae		
51	Animalia	Nemertea	Enopla	Monostilifera	Tetrastemmatidae	<i>Tetrastemma</i>	
52	Animalia	Nemertea	Palaeonemertea		Cephalothricidae	<i>Cephalothrix</i>	
53	Animalia	Platyhelminthes	Rhabditophora	Polycladida			
54	Animalia	Platyhelminthes	Turbellaria	Macrostomida	Macrostomidae		
55	Animalia	Platyhelminthes	Turbellaria	Macrostomida	Microstomidae		
56	Animalia	Porifera	Calcarea				
57	Animalia	Porifera	Deomspongiae	Haplosclerida			
58	Animalia	Porifera	Homoscleromorpha	Homosclerophorida	Plakinidae		
59	Animalia	Xenacoelomorpha	Acoela		Isodiametridae		
60	Chromista	Bigyra	Labyrinthulomycetes		Thraustochytriaceae	<i>Aplanochytrium</i>	
61	Chromista	Bigyra		Bicosoecida	Bicosoecidae	<i>Bicosoeca</i>	
62	Chromista	Cercozoa	Sarcomonadea	Cercomonadida	Cercomonadidae	<i>Massisteria</i>	
63	Chromista	Cercozoa	Thecofilosea	Cryomonadida		<i>Cryothecomonas</i>	
64	Chromista	Ciliophora	Oligohymenophorea	Hymenostomatida			
65	Chromista	Ciliophora	Oligohymenophorea	Peniculida			
66	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Cinetochilidae	<i>Cinetochilum</i>	
67	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Cohnilembidae	<i>Cohnilembus</i>	
68	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Cohnilembidae	<i>Porpostoma</i>	
69	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Orchitophryidae	<i>Metanophrys</i>	

70	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Orchitophryidae	<i>Paranophrys</i>
71	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Philasteridae	
72	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Uronematidae	<i>Uronemella</i>
73	Chromista	Ciliophora	Oligohymenophorea	Pleurodematida	Pleurodematidae	<i>Pleuronema coronatum</i>
74	Chromista	Ciliophora	Phyllopharyngea	Dysteriida	Dysteriidae	<i>Dysteria</i>
75	Chromista	Ciliophora	Prostomatea	Prorodontida	Colepidae	<i>Tiarina</i>
76	Chromista	Ciliophora	Prostomatea	Prorodontida	Urotrichidae	<i>Urotricha</i>
77	Chromista	Ciliophora	Spirotrichea	Choreotrichida	Strombidinopsidae	<i>Parastrombidinopsis</i>
78	Chromista	Ciliophora	Spirotrichea	Euplotida	Uronychiidae	<i>Diophrys</i>
79	Chromista	Ciliophora	Spirotrichea	Tintinnida		
80	Chromista	Ciliophora	Spirotrichea		Strombidiidae	<i>Strombidium</i>
81	Chromista	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	
82	Chromista	Cryptophyta	Cryptophyceae	Cryptomonadales	Goniomonadaceae	<i>Goniomonas</i>
83	Chromista	Cryptophyta	Cryptophyceae	Cryptomonadales	Hemiselmidae	<i>Hemiselmis</i>
84	Chromista	Cryptophyta	Cryptophyceae	Pyrenomonadales	Geminigeraceae	<i>Teleaulax</i>
85	Chromista	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	<i>Rhodomonas</i>
86	Chromista	Cryptophyta	Katablepharidophyta		Katablepharidaceae	
87	Chromista	Cryptophyta	Telonemea	Telonemida		<i>Telonema</i>
88	Chromista	Dinoflagellata	Dinophyceae	Gonyaulacales	Amphidomataceae	<i>Amphidoma</i>
89	Chromista	Dinoflagellata	Dinophyceae	Gonyaulacales	Amphidomataceae	<i>Azadinium</i>
90	Chromista	Dinoflagellata	Dinophyceae	Gonyaulacales	Ceratiaceae	<i>Neoceratium</i>
91	Chromista	Dinoflagellata	Dinophyceae	Gonyaulacales	Gonyaulaceae	<i>Alexandrium</i>
92	Chromista	Dinoflagellata	Dinophyceae	Gonyaulacales	Gonyaulaceae	<i>Gonyaulax</i>
93	Chromista	Dinoflagellata	Dinophyceae	Gymnodiniales	Brachidiniaceae	<i>Brachidinium</i>
94	Chromista	Dinoflagellata	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Gymnodinium klebsii</i>
95	Chromista	Dinoflagellata	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Cochlodinium</i>
96	Chromista	Dinoflagellata	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Gymnodinium</i>
97	Chromista	Dinoflagellata	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Gyrodinium</i>
98	Chromista	Dinoflagellata	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Lepidodinium</i>
99	Chromista	Dinoflagellata	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Paragymnodinium</i>
100	Chromista	Dinoflagellata	Dinophyceae	Gymnodiniales	Karenaceae	<i>Karenia</i>
101	Chromista	Dinoflagellata	Dinophyceae	Gymnodiniales	Karenaceae	<i>Karlodinium</i>
102	Chromista	Dinoflagellata	Dinophyceae	Gymnodiniales	Warnowiaceae	<i>Warnowia</i>
103	Chromista	Dinoflagellata	Dinophyceae	Peridiniales	Glenodiniaceae	<i>Glenodinium</i>
104	Chromista	Dinoflagellata	Dinophyceae	Peridiniales	Heterocapsaceae	<i>Heterocapsa</i>
105	Chromista	Dinoflagellata	Dinophyceae	Peridiniales	Peridiniaceae	<i>Pentapleura</i>
106	Chromista	Dinoflagellata	Dinophyceae	Peridiniales	Peridiniaceae	<i>Peridinium</i>
107	Chromista	Dinoflagellata	Dinophyceae	Peridiniales	Podolampaceae	<i>Blepharocysta</i>
108	Chromista	Dinoflagellata	Dinophyceae	Peridiniales	Podolampaceae	<i>Podolampas</i>
109	Chromista	Dinoflagellata	Dinophyceae	Peridiniales	Protoperidiniaceae	<i>Protoperidinium</i>
110	Chromista	Dinoflagellata	Dinophyceae	Peridiniales	Thoracosphaeraceae	<i>Scrippsiella</i>
111	Chromista	Dinoflagellata	Dinophyceae	Peridiniales		<i>Galeidinium</i>
112	Chromista	Dinoflagellata	Dinophyceae	Prorocentrales	Prorocentraceae	<i>Prorocentrum</i>
113	Chromista	Dinoflagellata	Dinophyceae	Pyrocystales	Pyrocystaceae	<i>Dissodinium</i>
114	Chromista	Dinoflagellata	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>
115	Chromista	Dinoflagellata	Dinophyceae	Syndiniales	Amoebophryaceae	<i>Amoebophrya</i>
116	Chromista	Dinoflagellata	Dinophyceae	Syndiniales	Syndiniaceae	<i>Hematodinium</i>
117	Chromista	Dinoflagellata	Dinophyceae			<i>Stoeckeria</i>
118	Chromista	Haptophyta	Chrysophyceae	Chromulinales	Chromulinaceae	
119	Chromista	Haptophyta	Chrysophyceae	Chromulinales	Paraphysomonadaceae	<i>Paraphysomonas</i>
120	Chromista	Myxozoa	Perkinsea	Perkinsida	Perkinsidae	
121	Chromista	Ochrophyta	Bacillariophyceae	Achnanthes		
122	Chromista	Ochrophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	<i>Cylindrotheca</i>
123	Chromista	Ochrophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	<i>Nitzschia</i>
124	Chromista	Ochrophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	<i>Pseudo-nitzschia</i>
125	Chromista	Ochrophyta	Bacillariophyceae	Naviculales	Naviculaceae	<i>Meuniera</i>
126	Chromista	Ochrophyta	Bacillariophyceae	Naviculales	Naviculaceae	<i>Navicula</i>
127	Chromista	Ochrophyta	Bacillariophyceae	Naviculales	Pleurosigmales	
128	Chromista	Ochrophyta	Bacillariophyceae	Thalassiosiphales	Catenulaceae	<i>Amphora</i>
129	Chromista	Ochrophyta	Coscinodiscophyceae	Chaetocerotales	Chaetocerotaceae	
130	Chromista	Ochrophyta	Coscinodiscophyceae	Corethrales	Corethraceae	<i>Corethron</i>
131	Chromista	Ochrophyta	Coscinodiscophyceae	Coscinodisciales	Hemidiscaceae	<i>Actinocyclus</i>
132	Chromista	Ochrophyta	Coscinodiscophyceae	Leptocylindrales	Leptocylindraceae	
133	Chromista	Ochrophyta	Coscinodiscophyceae	Rhizoleniales	Rhizosoleniaceae	<i>Guinardia</i>
134	Chromista	Ochrophyta	Coscinodiscophyceae	Rhizoleniales	Rhizosoleniaceae	<i>Rhizosolenia</i>
135	Chromista	Ochrophyta	Coscinodiscophyceae	Thalassiosiphales	Skeletonemataceae	<i>Skeletonema</i>
136	Chromista	Ochrophyta	Coscinodiscophyceae	Thalassiosiphales	Thalassiosiraceae	<i>Minidiscus</i>
137	Chromista	Ochrophyta	Coscinodiscophyceae	Thalassiosiphales	Thalassiosiraceae	<i>Thalassiosira</i>
138	Chromista	Ochrophyta	Dictyochophyceae	Florentiellales		<i>Florentiella</i>
139	Chromista	Ochrophyta	Dictyochophyceae	Pedinellales		<i>Pseudopedinella</i>
140	Chromista	Ochrophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	<i>Opephora</i>

Supplementary Data 3 - 18S V1-V3 taxa

Count	Kingdom	Phylum	Class	Order	Family	Genus	Species
1	Animalia	Annelida	Phascolosomatidea	Phascolosomatiformes	Phascolosomatidae	<i>Phascolosoma</i>	
2	Animalia	Annelida	Polychaeta	Capitellida	Capitellidae	<i>Dasybranchus</i>	
3	Animalia	Annelida	Polychaeta	Eunicida	Eunicidae	<i>Eunice</i>	
4	Animalia	Annelida	Polychaeta	Phyllodocida	Syllidae	<i>Salvatoria</i>	
5	Animalia	Annelida	Polychaeta	Sabellida	Fabriciidae	<i>Fabricinuda</i>	
6	Animalia	Annelida	Polychaeta	Sabellida	Sabellidae		
7	Animalia	Annelida	Polychaeta		Opheliidae		
8	Animalia	Annelida	Polychaeta		Spionidae	<i>Spio</i>	
9	Animalia	Annelida	Polychaeta		Terebellidae		
10	Animalia	Arthropoda	Maxillopoda	Calanoida	Acartiidae		
11	Animalia	Arthropoda	Maxillopoda	Cyclopoida			
12	Animalia	Arthropoda	Maxillopoda	Poecilostomatoida	Catiniidae		
13	Animalia	Arthropoda	Maxillopoda	Poecilostomatoida	Lichomolgidae	<i>Lichomolgus</i>	
14	Animalia	Chordata	Actinopterygii	Perciformes			
15	Animalia	Chordata	Asciacea	Pleurogona	Stylelidae	<i>Botryllus</i>	
16	Animalia	Chordata	Asciacea	Stolidobranchia	Pyuridae	<i>Pyura</i>	
17	Animalia	Cnidaria	Anthozoa	Actiniaria			
18	Animalia	Cnidaria	Hydrozoa	Leptothecata			
19	Animalia	Cnidaria		Bivalvulida	Myxidiidae		
20	Animalia	Ctenophora	Tentaculata	Platyctenida	Coeloplanidae	<i>Vallricula</i>	
21	Animalia	Echinodermata	Echinoidea				
22	Animalia	Gastrotricha		Chaetonotida	Chaetonotidae		
23	Animalia	Mollusca	Bivalvia	Limoida	Limidae	<i>Limaria</i>	
24	Animalia	Mollusca	Bivalvia	Mytiloida	Mytilidae		
25	Animalia	Mollusca	Bivalvia	Ostreoida	Ostreidae		
26	Animalia	Mollusca	Bivalvia	Solemyoida	Solemyidae	<i>Solemya</i>	
27	Animalia	Mollusca	Bivalvia	Veneroida	Cardiidae	<i>Fragum</i>	
28	Animalia	Mollusca	Bivalvia	Veneroida	Lucinidae		
29	Animalia	Mollusca	Gastropoda		Strombidae	<i>Lambis</i>	
30	Animalia	Nematoda	Chromadorea	Chromadorida	Chromadoridae		
31	Animalia	Nemertea	Enopla				
32	Animalia	Platyhelminthes	Monogenea				
33	Animalia	Platyhelminthes	Trematoda				
34	Animalia	Platyhelminthes	Turbellaria	Macrostomida	Macrostomidae		
35	Animalia	Platyhelminthes	Turbellaria	Rhabdozoa			
36	Animalia	Porifera	Calcarea				
37	Animalia	Porifera	Demospongiae	Dictyoceratida			
38	Animalia	Porifera	Demospongiae	Haplosclerida			
39	Animalia	Xenacoelomorpha	Acoela		Isodiametridae		
40	Chromista	Bigyra	Labyrinthulomycetes	Labyrinthulomycetes	Thraustochytriaceae	<i>Aplanochytrium</i>	
41	Chromista	Bigyra		Bicosoecida		<i>Ceacitellus</i>	
42	Chromista	Cercozoa	Imbricatea	Thaumatomastigida	Thaumatomastigidae		
43	Chromista	Ciliophora	Heterotrichea	Heterotrichida	Condylostomatidae	<i>Condylostoma</i>	
44	Chromista	Ciliophora	Litostomatea	Haptorida	Lacrymariidae	<i>Lacrymaria</i>	
45	Chromista	Ciliophora	Litostomatea	Pleurostomatida	Litonotidae	<i>Litonotus</i>	
46	Chromista	Ciliophora	Nassophorea	Synhymeniida	Orthodonellidae	<i>Zosterodasys</i>	
47	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Loxocephalidae	<i>Cardiostomatella</i>	
48	Chromista	Ciliophora	Oligohymenophorea	Philasterida	Uronematidae	<i>Uronema</i>	<i>heteromarinum</i>
49	Chromista	Ciliophora	Oligohymenophorea	Pleuronematida	Cyclidiidae	<i>Cyclidium</i>	
50	Chromista	Ciliophora	Spirotrichea	Choreotrichida	Strobilidiidae	<i>Pelagostrobilidium</i>	
51	Chromista	Ciliophora	Spirotrichea	Choreotrichida	Strobilidiidae	<i>Rimostrobilidium</i>	
52	Chromista	Ciliophora	Spirotrichea	Choreotrichida	Strombidinopsidae	<i>Strombidinopsis</i>	
53	Chromista	Ciliophora	Spirotrichea	Euplotida	Uronychiidae	<i>Diophrys</i>	
54	Chromista	Ciliophora	Spirotrichea	Sporadotrichida	Oxytrichidae	<i>Hemigastrostyla</i>	
55	Chromista	Ciliophora	Spirotrichea	Tintinnida	Tintinnidae		
56	Chromista	Ciliophora	Spirotrichea	Urostylida	Holostichidae	<i>Holosticha</i>	<i>diademata</i>
57	Chromista	Ciliophora	Spirotrichea		Cyrtostrombidiidae	<i>Cyrtostrombidium</i>	
58	Chromista	Ciliophora	Spirotrichea		Strombidiidae	<i>Strombidium</i>	
59	Chromista	Ciliophora	Spirotrichea		Totoniidae	<i>Pseudotontonia</i>	
60	Chromista	Ciliophora	Spirotrichea			<i>Protocruzia</i>	
61	Chromista	Cryptophyta	Cryptophyceae	Cryptomonadales	Goniomonadaceae	<i>Goniomonas</i>	
62	Chromista	Cryptophyta	Cryptophyceae	Pyrenomonadales	Geminigeraceae	<i>Proteomonas</i>	
63	Chromista	Cryptophyta	Cryptophyceae	Pyrenomonadales	Geminigeraceae	<i>Teleaulax</i>	
64	Chromista	Cryptophyta	Telonemea	Telonemida		<i>Telonema</i>	
65	Chromista	Haptophyta	Coccolithophyceae	Phaeocystales	Phaeocystaceae	<i>Phaeocystis</i>	
66	Chromista	Haptophyta	Coccolithophyceae	Prymnesiales	Chrysochromulinaceae	<i>Chrysochromulina</i>	
67	Chromista	Haptophyta	Pavlovophycidae	Pavlovales	Pavlovaceae	<i>Pavlova</i>	<i>pinguis</i>
68	Chromista	Heliozoa	Centrohelea	Centroheliida	Acanthocystidae	<i>Raineriophrys</i>	
69	Chromista	Myzozoa	Dinophyceae	Gonyaulacales	Amphidomataceae	<i>Amphidoma</i>	
70	Chromista	Myzozoa	Dinophyceae	Gonyaulacales	Amphidomataceae	<i>Azadinium</i>	
71	Chromista	Myzozoa	Dinophyceae	Gonyaulacales	Gonyaulacaceae	<i>Alexandrium</i>	

72	Chromista	Myzozoa	Dinophyceae	Gonyaulacales	Gonyaulacaceae	<i>Gonyaulax</i>	
73	Chromista	Myzozoa	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Amphidinium</i>	
74	Chromista	Myzozoa	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Gymnodinium</i>	
75	Chromista	Myzozoa	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Gyrodinium</i>	
76	Chromista	Myzozoa	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Paragymnodinium</i>	
77	Chromista	Myzozoa	Dinophyceae	Lophodinales	Lophodiniaceae	<i>Woloszynskia</i>	
78	Chromista	Myzozoa	Dinophyceae	Peridinales	Heterocapsaceae	<i>Heterocapsa</i>	
79	Chromista	Myzozoa	Dinophyceae	Peridinales	Peridiniaceae	<i>Pentaparsodinium</i>	
80	Chromista	Myzozoa	Dinophyceae	Peridinales	Peridiniaceae	<i>Peridinium</i>	
81	Chromista	Myzozoa	Dinophyceae	Peridinales	Pfiesteriaceae		
82	Chromista	Myzozoa	Dinophyceae	Peridinales	Protoperidiniaceae	<i>Protoperidinium</i>	
83	Chromista	Myzozoa	Dinophyceae	Peridinales		<i>Galeidinium</i>	
84	Chromista	Myzozoa	Dinophyceae	Prorocentrales	Prorocentraceae	<i>Exuviaella</i>	
85	Chromista	Myzozoa	Dinophyceae	Prorocentrales	Prorocentraceae	<i>Prorocentrum</i>	
86	Chromista	Myzozoa	Dinophyceae	Syndiniales	Amoebophryaceae	<i>Amoebophrya</i>	
87	Chromista	Myzozoa	Dinophyceae	Syndiniales	Duboscquellidae	<i>Duboscquella</i>	
88	Chromista	Myzozoa	Dinophyceae	Syndiniales	Syndiniaceae	<i>Hematodinium</i>	<i>perezi</i>
89	Chromista	Myzozoa	Gregarinasina	Eugregarinorida	Gregarinidae		
90	Chromista	Myzozoa	Gregarinasina	Eugregarinorida	Lecudinidae	<i>Lankesteria</i>	
91	Chromista	Myzozoa	Gregarinasina	Eugregarinorida	Lecudinidae	<i>Lecudina</i>	
92	Chromista	Myzozoa	Perkinsea	Perkinsida	Perkinsidae	<i>Perkinsus</i>	
93	Chromista	Ochrophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	<i>Pseudo-nitzschia</i>	
94	Chromista	Ochrophyta	Coscinodiscophyceae	Chaetocerotales	Chaetocerotaceae	<i>Chaetoceros</i>	
95	Chromista	Ochrophyta	Coscinodiscophyceae	Coscinodiscales	Hemidiscaceae	<i>Actinocyclus</i>	
96	Chromista	Ochrophyta	Coscinodiscophyceae	Thalassiosirales	Skeletonemataceae	<i>Skeletonema</i>	
97	Chromista	Ochrophyta	Coscinodiscophyceae	Thalassiosirales	Thalassiosiraceae	<i>Thalassiosira</i>	
98	Chromista	Ochrophyta	Dictyochophyceae	Florenciellales		<i>Florenciella</i>	
99	Chromista	Ochrophyta	Dictyochophyceae	Rhizochromulinales		<i>Rhizochromulina</i>	
100	Chromista	Ochrophyta	Fragilariophyceae	Thalassionematales	Thalassionemataceae	<i>Thalassionema</i>	
101	Chromista	Ochrophyta	Mediophyceae	Cymatosirales	Cymatosiraceae		
102	Chromista	Ochrophyta	Mediophyceae	Hemiaulales	Hemiaulaceae	<i>Cerataulina</i>	
103	Chromista	Ochrophyta	Phaeophyceae	Dictyotales	Dictyotaceae	<i>Lobophora</i>	
104	Chromista	Ochrophyta		Pinguiochrysidales	Pinguiochrysidaceae	<i>Pinguiochrysis</i>	
105	Fungi	Ascomycota	Dothideomycetes	Capnodiales	Cladosporiaceae	<i>Cladosporium</i>	
106	Fungi	Chytridiomycota					
107	Plantae	Chlorophyta	Chlorodendrophyceae	Chlorodendrales	Chlorodendraceae	<i>Tetraselmis</i>	
108	Plantae	Chlorophyta	Chlorophyceae	Chlamydomonadales			
109	Plantae	Chlorophyta	Mamiellophyceae	Mamiellales	Bathycoccaceae	<i>Bathycoccus</i>	
110	Plantae	Chlorophyta	Mamiellophyceae	Mamiellales	Bathycoccaceae	<i>Ostreococcus</i>	
111	Plantae	Chlorophyta	Mamiellophyceae	Mamiellales	Mamiellaceae	<i>Mamiella</i>	
112	Plantae	Chlorophyta	Mamiellophyceae	Mamiellales	Mamiellaceae	<i>Micromonas</i>	
113	Plantae	Chlorophyta	Ulvophyceae	Ulvales			
114	Plantae	Chlorophyta		Prasinococcales		<i>Prasinoderma</i>	
115	Plantae	Chlorophyta		Pyramimonadales		<i>Pyramimonas</i>	
116	Plantae	Chlorophyta			Prasinophyceae		
117	Plantae	Chlorophyta				<i>Oltmannsiellopsis</i>	
118	Plantae	Glaucophyta	Glaucozystophyceae		Cyanophoraceae	<i>Cyanophora</i>	
119	Plantae	Streptophyta		Lamiales	Acanthaceae	<i>Lankesteria</i>	
120	Protozoa	Amoebozoa		Dactylopodida	Vexilliferidae	<i>Neoparamoeba</i>	
121	Protozoa	Apusozoa			Planomonadidae	<i>Planomonas</i>	
122	Protozoa	Choanozoa	Choanoflagellata	Choanoflagellida	Codonosigidae	<i>Monosiga</i>	
123	Protozoa	Choanozoa	Choanoflagellata	Choanoflagellida	Stephanoecidae	<i>Diaphanoeca</i>	

Supplementary Data 3 - COI (metazoans) taxa

Count	Kingdom	Phylum	Class	Order	Family	Genus	Species
1	Animalia	Annelida	Polychaeta		Chaetopteridae	<i>Phyllochaetopterus</i>	
2	Animalia	Annelida	Polychaeta		Dorvilleidae	<i>Dorvillea</i>	
3	Animalia	Annelida	Polychaeta		Eunicidae		
4	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Etisus</i>	
5	Animalia	Arthropoda	Maxillopoda	Cyclopoida			
6	Animalia	Chordata	Actinopterygii	Atheriniformes	Atherinidae	<i>Atherinomorus</i>	
7	Animalia	Chordata	Actinopterygii	Atheriniformes	Atherinidae	<i>Hypoatherina</i>	
8	Animalia	Chordata	Actinopterygii	Beloniformes	Belonidae	<i>Tylosurus</i>	<i>gavialoides</i>
9	Animalia	Chordata	Actinopterygii	Cluperiformes	Clupeidae	<i>Spratelloides</i>	
10	Animalia	Chordata	Actinopterygii	Mugiliformes	Mugilidae	<i>Mugil</i>	<i>cephalus</i>
11	Animalia	Chordata	Actinopterygii	Perciformes	Carangidae	<i>Scomberoides</i>	<i>commersonnianus</i>
12	Animalia	Chordata	Actinopterygii	Perciformes	Percidae	<i>Gerres</i>	
13	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Chlorurus</i>	<i>sordidus</i>
14	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Coris</i>	<i>aygula</i>
15	Animalia	Chordata	Actinopterygii	Perciformes	Lethrinidae	<i>Lethrinus</i>	<i>nebulosus</i>
16	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Dascyllus</i>	<i>aruanus</i>
17	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Pomacentrus</i>	<i>coelestis</i>
18	Animalia	Chordata	Actinopterygii	Perciformes	Priacanthidae	<i>Heteropriacanthus</i>	
19	Animalia	Chordata	Actinopterygii	Perciformes	Scatophagidae	<i>Selenotoca</i>	
20	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Tetraodontidae	<i>Arothron</i>	<i>hispidus</i>
21	Animalia	Chordata	Ascidiacea	Enterogona	Asciidae	<i>Ascidia</i>	
22	Animalia	Chordata	Chondrichthyes	Myliobatiformes	Dasyatidae	<i>Himantura</i>	<i>leoparda</i>
23	Animalia	Chordata	Chondrichthyes	Myliobatiformes	Dasyatidae	<i>Neotrygon</i>	<i>ningalooensis</i>
24	Animalia	Chordata	Chondrichthyes	Myliobatiformes	Dasyatidae	<i>Pastinachus</i>	<i>atrus</i>
25	Animalia	Chordata	Chondrichthyes	Myliobatiformes	Dasyatidae	<i>Taeniura</i>	
26	Animalia	Cnidaria	Anthozoa	Alcyonacea	Alcyoniidae		
27	Animalia	Cnidaria	Anthozoa	Scleractinia	Pocilloporidae	<i>Pocillopora</i>	
28	Animalia	Cnidaria	Hydrozoa	Leptothecata	Campanulariidae	<i>Campanularia</i>	
29	Animalia	Cnidaria	Hydrozoa	Leptothecata	Campanulariidae	<i>Clytia</i>	
30	Animalia	Cnidaria	Hydrozoa	Leptothecata	Haleciidae	<i>Halecium</i>	
31	Animalia	Echinodermata	Holothuroidea	Aspidochirotida	Holothuridae	<i>Holothuria</i>	<i>atra</i>
32	Animalia	Mollusca	Mollusca	Bivalvia	Solemyidae	<i>Solemya</i>	
33	Animalia	Mollusca	Cephalopoda	Octopoda	Octopodidae	<i>Octopus</i>	<i>cyanea</i>
34	Animalia	Mollusca	Gastropoda	Cerithimorpha	Cerithidae	<i>Cerithium</i>	
35	Animalia	Mollusca	Gastropoda	Hypsogastropoda	Strombidae	<i>Strombus</i>	
36	Animalia	Mollusca	Gastropoda		Littorinidae	<i>Echinolittorina</i>	
37	Animalia	Porifera	Demospongiae	Hadromerida	Clionidae	<i>Pione</i>	
38	Animalia	Porifera	Demospongiae	Halichondrida	Halichondriidae	<i>Halichondria</i>	
39	Animalia	Porifera	Demospongiae	Halichondrida	Halichondriidae	<i>Hymeniacidon</i>	
40	Animalia	Porifera	Demospongiae	Haplosclerida			
41	Animalia	Porifera	Demospongiae	Poecilosclerida	Desmacellidae	<i>Biemna</i>	
42	Animalia	Porifera	Demospongiae	Poecilosclerida	Microcionidae	<i>Clathria</i>	
43	Animalia	Porifera	Demospongiae	Homosclerophorida	Oscarellidae	<i>Oscarella</i>	
44	Chromista	Cercozoa	Chlorarachnea	Chlorachniida	Chlorarachniaceae	<i>Bigelowiella</i>	
45	Chromista	Haptophyta	Coccolithophyceae	Phaeocystales	Phaeocystaceae	<i>Phaeocystis</i>	
46	Chromista	Haptophyta	Coccolithophyceae	Prymnesiales	Chrysochromulinaceae	<i>Chrysochromulina</i>	
47	Chromista	Haptophyta	Prymnesiophyceae	Isochrysidales	Noelaerhabdaceae	<i>Emiliania</i>	
48	Chromista	Myzozoa	Dinophyceae	Gymnodiniales	Gymnodiniaceae	<i>Gymnodinium</i>	
49	Chromista	Myzozoa	Dinophyceae	Syndiniales	Syndiniaceae	<i>Hematodinium</i>	
50	Chromista	Ochrophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	<i>Cylindrotheca</i>	
51	Chromista	Ochrophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	<i>Nitzschia</i>	
52	Chromista	Ochrophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	<i>Pseudo-nitzschia</i>	
53	Chromista	Ochrophyta	Coscinodiscophyceae	Chaetocerotales	Chaetocerotaceae	<i>Chaetoceros</i>	
54	Chromista	Ochrophyta	Coscinodiscophyceae	Thalassiosirales	Skeletonemataceae	<i>Skeletonema</i>	<i>menzelli</i>
55	Chromista	Ochrophyta	Coscinodiscophyceae	Thalassiosirales	Thalassiosiraceae	<i>Thalassiosira</i>	
56	Chromista	Ochrophyta	Mediophyceae	Cymatosirales	Cymatosiraceae	<i>Minutocellus</i>	
57	Chromista	Ochrophyta	Mediophyceae	Thalassiosirales	Stephanodiscaceae	<i>Cyclotella</i>	
58	Chromista	Ochrophyta	Phaeophyceae	Dictyotales	Dictyotaceae	<i>Dictyota</i>	
59	Chromista	Ochrophyta	Phaeophyceae	Fucales	Sargassaceae	<i>Sargassum</i>	<i>ilicifolium</i>
60	Chromista	Ochrophyta		Ectocarpales	Chordariaceae		
61	Chromista	Ochrophyta		Ectocarpales	Scytosiphonaceae	<i>Hydroclathrus</i>	
62	Fungi	Ascomycota	Eurotiomycetes	Eurotiales	Trichocomaceae	<i>Talaromyces</i>	
63	Plantae	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Mantoniella</i>	
64	Plantae	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Micromonas</i>	
65	Plantae	Chlorophyta	Prasinophyceae	Pseudoscurfieldiales	Pycnococcaceae	<i>Prasinoderma</i>	
66	Plantae	Chlorophyta	Prasinophyceae	Pseudoscurfieldiales	Pycnococcaceae	<i>Pseudoscurfieldia</i>	
67	Plantae	Chlorophyta	Ulvophyceae	Dasycladales	Polyphysaceae	<i>Acetabularia</i>	
68	Plantae	Chlorophyta	Ulvophyceae	Oltmannsiellopsidales	Oltmannsiellopsidaceae	<i>Oltmannsiellopsis</i>	
69	Plantae	Rhodophyta	Florideophyceae	Acrochaetiales	Acrochaetiaceae	<i>Acrochaetium</i>	
70	Plantae	Rhodophyta	Florideophyceae	Ceramiales	Rhodomelaceae		

71	Plantae	Rhodophyta	Florideophyceae	Corallinales		
72	Plantae	Rhodophyta	Florideophyceae	Gigartinales	Peyssonneliaceae	<i>Sonderopelta</i>
73	Plantae	Rhodophyta	Florideophyceae	Gigartinales	Solieriaceae	
74	Plantae	Rhodophyta	Florideophyceae	Rhodymeniales	Rhodymeniaceae	<i>Coelothrix</i>
75	Protozoa	Apusozoa			Apusomonadidae	<i>Thecamonas</i>

Supplementary Data 3 - Fish 16S taxa

Count	Kingdom	Phylum	Class	Order	Family	Genus	Species
1	Animalia	Chordata	Actinopterygii	Anguilliformes	Muraenidae	<i>Gymnothorax</i>	<i>pseudothyrsoides</i>
2	Animalia	Chordata	Actinopterygii	Atheriniformes	Atherinidae	<i>Atherinomorus</i>	
3	Animalia	Chordata	Actinopterygii	Atheriniformes	Atherinidae	<i>Hypoatherina</i>	
4	Animalia	Chordata	Actinopterygii	Beloniformes	Belonidae	<i>Strongylura</i>	
5	Animalia	Chordata	Actinopterygii	Beloniformes	Hemiramphidae	<i>Hyporhamphus</i>	
6	Animalia	Chordata	Actinopterygii	Beryciformes	Holocentridae	<i>Sargocentron</i>	<i>rubrum</i>
7	Animalia	Chordata	Actinopterygii	Cluperiformes	Clupeidae	<i>Sardinella</i>	
8	Animalia	Chordata	Actinopterygii	Cluperiformes	Clupeidae	<i>Spratelloides</i>	
9	Animalia	Chordata	Actinopterygii	Cluperiformes	Engrulidae	<i>Engraulis</i>	
10	Animalia	Chordata	Actinopterygii	Mugiliformes	Mugilidae	<i>Mugil</i>	<i>cephalus</i>
11	Animalia	Chordata	Actinopterygii	Perciformes	Acanthuridae	<i>Acanthurus</i>	<i>triestegus</i>
12	Animalia	Chordata	Actinopterygii	Perciformes	Apogonidae	<i>Apogon</i>	
13	Animalia	Chordata	Actinopterygii	Perciformes	Blenniidae	<i>Salarias</i>	
14	Animalia	Chordata	Actinopterygii	Perciformes	Carangidae	<i>Alectis</i>	
15	Animalia	Chordata	Actinopterygii	Perciformes	Carangidae	<i>Caranx</i>	
16	Animalia	Chordata	Actinopterygii	Perciformes	Carangidae	<i>Gnathanodon</i>	<i>speciosus</i>
17	Animalia	Chordata	Actinopterygii	Perciformes	Carangidae	<i>Scomberoides</i>	
18	Animalia	Chordata	Actinopterygii	Perciformes	Carangidae	<i>Trachinotus</i>	<i>blochii</i>
19	Animalia	Chordata	Actinopterygii	Perciformes	Chaetodontidae	<i>Chaetodon</i>	
20	Animalia	Chordata	Actinopterygii	Perciformes	Gerreidae	<i>Gerres</i>	
21	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	<i>Asterropteryx</i>	
22	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	<i>Bathygobius</i>	
23	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	<i>Gnatholepis</i>	
24	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	<i>Gobiodon</i>	<i>axillaris</i>
25	Animalia	Chordata	Actinopterygii	Perciformes	Haemulidae	<i>Plectorhinchus</i>	
26	Animalia	Chordata	Actinopterygii	Perciformes	Kyphosidae	<i>Kyphosus</i>	<i>bigibbus</i>
27	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Anampses</i>	
28	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Cheilinus</i>	<i>trilobatus</i>
29	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Cheilio</i>	<i>inermis</i>
30	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Chlorurus</i>	
31	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Coris</i>	<i>aygula</i>
32	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Cymolutes</i>	
33	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Halichoeres</i>	<i>nebulosus</i>
34	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Hemigymnus</i>	<i>melapterus</i>
35	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Labrichthys</i>	
36	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Labroides</i>	<i>dimidiatus</i>
37	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Stethojulis</i>	
38	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Thalassoma</i>	<i>lunare</i>
39	Animalia	Chordata	Actinopterygii	Perciformes	Lethrinidae	<i>Lethrinus</i>	<i>nebulosus</i>
40	Animalia	Chordata	Actinopterygii	Perciformes	Lutjanidae	<i>Lutjanus</i>	<i>fulviflamma</i>
41	Animalia	Chordata	Actinopterygii	Perciformes	Microdesmidae	<i>Gunnellichthys</i>	
42	Animalia	Chordata	Actinopterygii	Perciformes	Mullidae	<i>Parupeneus</i>	
43	Animalia	Chordata	Actinopterygii	Perciformes	Pinguipedidae		
44	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Abudefduf</i>	<i>vaigiensis</i>
45	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Cheiloprion</i>	<i>labiatus</i>
46	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Chromis</i>	<i>viridis</i>
47	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Dascyllus</i>	<i>aruanus</i>
48	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Pomacentrus</i>	<i>moluccensis</i>
49	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Stegastes</i>	<i>nigricans</i>
50	Animalia	Chordata	Actinopterygii	Perciformes	Pseudochromidae	<i>Pseudochromis</i>	
51	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Hippocarus</i>	
52	Animalia	Chordata	Actinopterygii	Perciformes	Labridae	<i>Scarus</i>	<i>schlegeli</i>
53	Animalia	Chordata	Actinopterygii	Perciformes	Scatophagidae		
54	Animalia	Chordata	Actinopterygii	Perciformes	Serranidae	<i>Epinephelus</i>	<i>quoyanus</i>
55	Animalia	Chordata	Actinopterygii	Perciformes	Siganidae	<i>Siganus</i>	
56	Animalia	Chordata	Actinopterygii	Perciformes	Sillaginidae	<i>Sillago</i>	
57	Animalia	Chordata	Actinopterygii	Perciformes	Sphyraenidae	<i>Sphyraena</i>	
58	Animalia	Chordata	Actinopterygii	Scorpaeniformes	Sebastidae		
59	Animalia	Chordata	Actinopterygii	Syngnathiformes	Fistularidae	<i>Fistularia</i>	

60	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Balistidae	<i>Rhinecanthus</i>	<i>aculeatus</i>
61	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Diodontidae	<i>Diodon</i>	<i>hystrix</i>
62	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Monacanthidae	<i>Pervagor</i>	
63	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Ostraciidae	<i>Ostracion</i>	<i>cubicus</i>
64	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Tetraodontidae	<i>Arothron</i>	<i>hispidis</i>
65	Animalia	Chordata	Chondrichthyes	Myliobatiformes	Myliobatidae	<i>Aetobatus</i>	

Supplementary Data 3 - 16S mammals

Count	Kingdom	Phylum	Class	Order	Family	Genus	Species
1	Animalia	Chordata	Actinopterygii	Perciformes	Acanthuridae	<i>Acanthurus</i>	<i>triestegus</i>
2	Animalia	Chordata	Actinopterygii	Perciformes	Pomacentridae	<i>Stegastes</i>	<i>nigricans</i>
	Animalia	Chordata	Mammalia	Primates	Hominidae	<i>Homo</i>	<i>sapiens</i>
3	Animalia	Chordata	Mammalia	Cetacea	Delphinidae		
	Animalia	Chordata	Mammalia	Artiodactyla	Bovidae	<i>Bos</i>	
	Animalia	Chordata	Mammalia	Artiodactyla	Suidae	<i>Sus</i>	<i>scrofa</i>

Supplementary Data 3 - 16S crust

Count	Kingdom	Phylum	Class	Order	Family	Genus	Species
1	Animalia	Annelida	Polychaeta		Spionidae		
2	Animalia	Arthropoda	Insecta	Blattodea			
3	Animalia	Arthropoda	Insecta	Coleoptera	Endomychidae		
4	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	<i>Opsius</i>	
5	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	<i>Pheidole</i>	
6	Animalia	Arthropoda	Malacostraca	Decapoda	Alpheidae	<i>Alpheus</i>	
7	Animalia	Arthropoda	Malacostraca	Decapoda	Axiidae	<i>Axiopsis</i>	
8	Animalia	Arthropoda	Malacostraca	Decapoda	Callianassidae		
9	Animalia	Arthropoda	Malacostraca	Decapoda	Diogenidae	<i>Calcinus</i>	<i>latens</i>
10	Animalia	Arthropoda	Malacostraca	Decapoda	Diogenidae	<i>Clibanarius</i>	
11	Animalia	Arthropoda	Malacostraca	Decapoda	Domeciidae		
12	Animalia	Arthropoda	Malacostraca	Decapoda	Dromiidae		
13	Animalia	Arthropoda	Malacostraca	Decapoda	Epialtinae		
14	Animalia	Arthropoda	Malacostraca	Decapoda	Galatheidae		
15	Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	<i>Grapsus</i>	<i>albolineatus</i>
16	Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	<i>Pachygrapsus</i>	<i>minutus</i>
17	Animalia	Arthropoda	Malacostraca	Decapoda	Hippolytidae	<i>Hippolyte</i>	
18	Animalia	Arthropoda	Malacostraca	Decapoda	Macrophthalmidae	<i>Macrophthalmus</i>	
19	Animalia	Arthropoda	Malacostraca	Decapoda	Majidae	<i>Micippa</i>	<i>platipes</i>
20	Animalia	Arthropoda	Malacostraca	Decapoda	Majidae	<i>Schizophrys</i>	
21	Animalia	Arthropoda	Malacostraca	Decapoda	Majidae	<i>Tiarinia</i>	
22	Animalia	Arthropoda	Malacostraca	Decapoda	Matutoidea	<i>Ashtoret</i>	
23	Animalia	Arthropoda	Malacostraca	Decapoda	Munididae		
24	Animalia	Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Coralliocaris</i>	
25	Animalia	Arthropoda	Malacostraca	Decapoda	Penaeidae	<i>Melicertus</i>	
26	Animalia	Arthropoda	Malacostraca	Decapoda	Percnidae	<i>Percnon</i>	
27	Animalia	Arthropoda	Malacostraca	Decapoda	Pilumnidae		
28	Animalia	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Carupa</i>	
29	Animalia	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Charybdis</i>	
30	Animalia	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Libystes</i>	
31	Animalia	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Portunus</i>	<i>pelagicus</i>
32	Animalia	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Thalamita</i>	<i>admete</i>
33	Animalia	Arthropoda	Malacostraca	Decapoda	Tetraliidae	<i>Tetralia</i>	
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35	Animalia	Arthropoda	Malacostraca	Decapoda	Varunidae		
36	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Atergatis</i>	
37	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Chlorodiella</i>	<i>laevisima</i>
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44	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Pilodius</i>	<i>areolatus</i>
45	Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Psaumis</i>	
46	Animalia	Arthropoda	Malacostraca	Stromatopoda	Nannosquillidae	<i>Pullosquilla</i>	
47	Animalia	Arthropoda	Maxillopoda	Lithoglyptida	Lithoglyptidae	<i>Auritoglyptes</i>	
48	Animalia	Bryozoa	Gymnolaemata	Cheilostomata	Beaniidae		
49	Animalia	Bryozoa	Gymnolaemata	Cheilostomata	Bictectiporidae		
50	Animalia	Bryozoa	Gymnolaemata	Cheilostomata	Smittinidae		
51	Animalia	Cnidaria	Hydrozoa	Leptothecata	Plumulariidae	<i>Plumularia</i>	
52	Animalia	Echinodermata	Ophiuroidea	Ophiurida	Amphiuridae	<i>Amphipholis</i>	
53	Animalia	Echinodermata	Ophiuroidea	Ophiurida	Ophiocomidae	<i>Ophiocoma</i>	

Supplementary Data 3 - 16S Ceph

Count	Kingdom	Phylum	Class	Order	Family	Genus	Species
1	Animalia	Arthropoda	Insecta	Coleoptera			
2	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		
3	Animalia	Echinodermata	Ophiuroidea	Ophiurida	Ophiothrichidae	<i>Macrophiothrix</i>	<i>caenosa</i>
4	Animalia	Mollusca	Bivalvia	Solemyoida	Solemyidae	<i>Solemya</i>	
5	Animalia	Mollusca	Cephalopoda	Octopoda	Octopodidae	<i>Abdopus</i>	
6	Animalia	Mollusca	Cephalopoda	Octopoda	Octopodidae	<i>Octopus</i>	<i>cyanea</i>
7	Animalia	Mollusca	Cephalopoda	Teuthida	Loliginidae	<i>Sepioteuthis</i>	
8	Animalia	Mollusca	Gastropoda	Caenogastropoda	Cerithiidae	<i>Cerithium</i>	<i>atromarginatum</i>
9	Animalia	Mollusca	Gastropoda	Caenogastropoda	Cerithiidae	<i>Cerithium</i>	<i>rostratum</i>
10	Animalia	Mollusca	Gastropoda	Caenogastropoda	Cerithiidae	<i>Clypeomorus</i>	
11	Animalia	Mollusca	Gastropoda	Caenogastropoda	Litiopidae	<i>Alaba</i>	
12	Animalia	Mollusca	Gastropoda	Caenogastropoda	Turritellidae		
13	Animalia	Mollusca	Gastropoda	Nudipleura			
14	Animalia	Mollusca	Gastropoda	Vetigastropoda	Haliotidae	<i>Haliotis</i>	<i>asinina</i>
15	Animalia	Mollusca	Gastropoda	Vetigastropoda	Trochidae	<i>Pseudostomatella</i>	
16	Animalia	Mollusca	Gastropoda	Vetigastropoda	Trochidae	<i>Rossiteria</i>	
17	Animalia	Mollusca	Gastropoda	Vetigastropoda	Trochidae	<i>Stomatella</i>	<i>impertusa</i>
18	Animalia	Mollusca	Gastropoda	Vetigastropoda	Trochidae	<i>Stomatia</i>	
19	Animalia	Mollusca	Gastropoda	Vetigastropoda	Turbinidae	<i>Turbo (Marmarostoma)</i>	

Supplementary Data 3 - 23S

Count	Kingdom	Phylum	Class	Order	Family	Genus	Species
1	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade D
2	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade B
3	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade A
4	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade C
5	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade G
6	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade H
7	Chromista	Myzozoa	Dinophyceae	Suessiales	Symbiodiniaceae	<i>Symbiodinium</i>	clade F

Supplementary Data 3 - trnL

Count	Kingdom	Phylum	Class	Order	Family	Genus	Species
1	Plantae	Streptophyta	Equisetopsida	Apiales	Apiaceae		
2	Plantae	Streptophyta	Equisetopsida	Asterales	Asteraceae		
3	Plantae	Streptophyta	Equisetopsida	Solanales	Solanaceae		
4	Plantae	Streptophyta	Equisetopsida	Caryophyllales	Amaranthaceae		
5	Plantae	Streptophyta	Equisetopsida	Cucurbitales	Cucurbitaceae		
6	Plantae	Streptophyta	Equisetopsida	Fabales	Fabaceae		
7	Plantae	Streptophyta	Equisetopsida	Brassicales	Caricaceae		
8	Plantae	Streptophyta	Equisetopsida	Sapindales	Rutaceae		
9	Plantae	Streptophyta	Equisetopsida	Poales	Poaceae		
10	Plantae	Streptophyta		Magnoliales	Magnoliaceae		

Supplementary Data 3- Prokaryotes

OTUNumber Abundance repSeqName

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Otu0003	9803	FTP55_1101_20199_2810_(reversed)
Otu0004	78361	FTP55_1101_15313_2070_(reversed)
Otu0005	49244	FTP55_1101_15278_2260_(reversed)
Otu0006	3651	FTP55_1101_18449_2881_(reversed)
Otu0007	5899	FTP55_1101_16830_3031_(reversed)
Otu0008	10179	FTP55_1101_13057_2056_(reversed)
Otu0009	7759	FTP55_1101_19067_2743_(reversed)
Otu0010	1725	FTP55_1101_14639_2893_(reversed)
Otu0011	10018	FTP55_1101_16825_2291_(reversed)
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Otu0025	268	FTP55_1101_17482_4815_(reversed)
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Otu0029	665	FTP55_1101_14997_5128_(reversed)
Otu0030	539	FTP55_1101_18102_2100_(reversed)
Otu0031	472	FTP55_1101_12206_11773_(reversed)
Otu0032	1805	FTP55_1101_20734_2687_(reversed)
Otu0033	112	FTP55_1101_12343_16976_(reversed)
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Otu0035	146	FTP55_1101_22828_20866_(reversed)
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Otu0047	120	FTP55_1101_19565_8985_(reversed)
Otu0048	412	FTP55_1101_19863_3266_(reversed)
Otu0049	122	FTP55_1101_20864_5559_(reversed)
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OTUConTaxonomy

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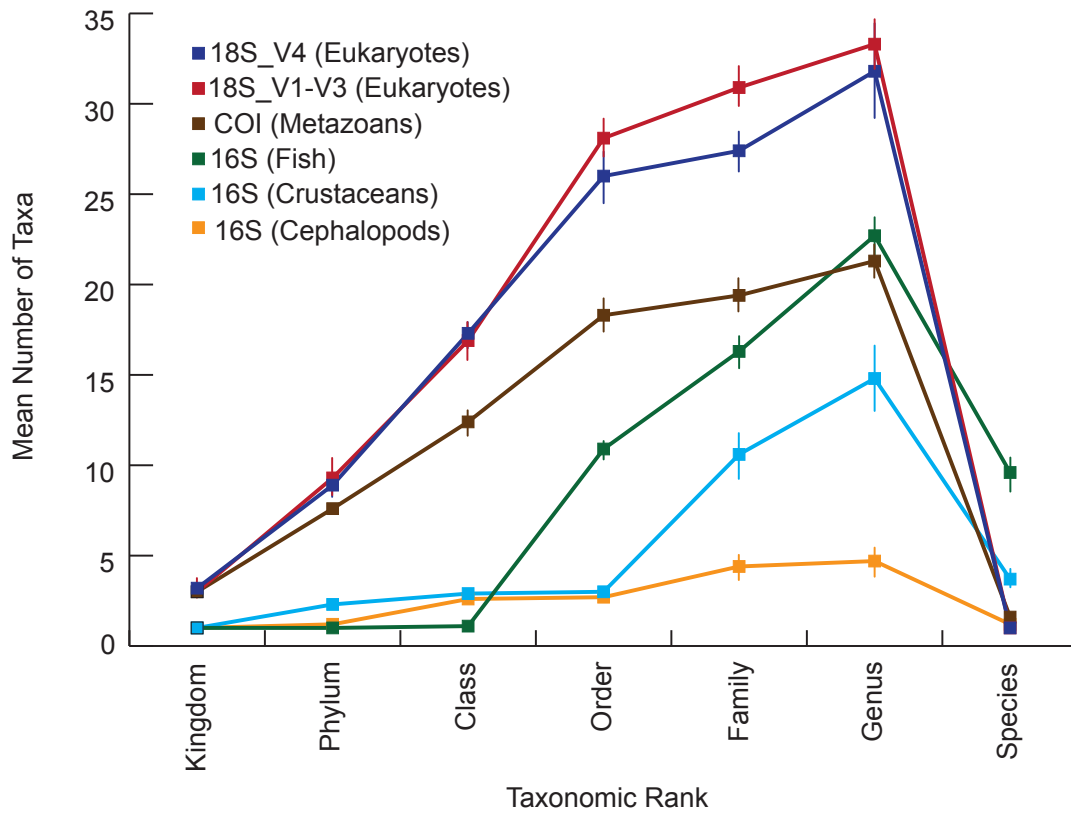
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Otu0108 23 FTp55_1101_10033_10702_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);unclassified(100);
Otu0109 44 FTp55_1102_10557_4973_(reversed) Bacteria(100);Proteobacteria(100);Betaproteobacteria(100);Methylophilales(100);Methylophilaceae(100);OM43_clade(100);
Otu0110 80 FTp55_1101_14323_8062_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Order_Incertae_Sedis(100);Family_Incertae_Sedis(100);Marinicella(100);
Otu0111 16 FTp55_1101_16222_6026_(reversed) Bacteria(100);Tenericutes(100);Mollicutes(100);NB1-n(100);unclassified(100);unclassified(100);
Otu0112 7 FTp55_1101_9951_9189_(reversed) Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Owenweeksia(100);
Otu0113 4 FTp55_1102_15552_2242_(reversed) Bacteria(100);Verrucomicrobia(100);Verrucomicrobiae(100);Verrucomicrobiales(100);DEV007(100);unclassified(100);
Otu0114 23 FTp55_1101_8687_11094_(reversed) Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Campylobacteraceae(100);Arcobacter(100);
Otu0115 6 FTp55_1101_4967_20956_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);unclassified(100);
Otu0116 7 FTp55_1102_7137_4581_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);unclassified(72);unclassified(72);unclassified(72);
Otu0117 4 FTp55_1102_18095_6869_(reversed) Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Bdellovibrionales(100);Bacterioviraceae(100);unclassified(100);
Otu0118 4 FTp55_1101_17572_11222_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Thiotrichales(100);Francisellaceae(100);Francisella(100);
Otu0119 4 FTp55_1101_5906_8653_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Alteromonadales(100);Alteromonadaceae(100);unclassified(100);
Otu0120 62 FTp55_1101_10413_8445_(reversed) Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);unclassified(100);unclassified(100);
Otu0121 14 FTp55_1101_26541_6944_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodospirillales(100);Rhodospirillaceae(100);AEGEAN-169_marine_group(100);
Otu0122 5 FTp55_1101_13105_9049_(reversed) Bacteria(100);Tenericutes(100);Mollicutes(100);NB1-n(100);unclassified(100);unclassified(100);
Otu0123 34 FTp55_1101_5599_10035_(reversed) Bacteria(100);Bacteroidetes(100);Cytophagia(100);Cytophagales(100);Flammeovirgaceae(100);Marinoscillum(100);
Otu0124 51 FTp55_1101_12929_5158_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);SAR11_clade(100);Surface_4(100);unclassified(100);
Otu0125 12 FTp55_1101_25683_17724_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Vibrionales(100);Vibrionaceae(100);unclassified(100);
Otu0126 37 FTp55_1101_23683_14875_(reversed) Bacteria(100);Gracilibacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0127 16 FTp55_1101_10690_3690_(reversed) Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);Aquimarina(100);
Otu0128 37 FTp55_1101_8280_8375_(reversed) Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);Owenweeksia(100);
Otu0129 106 FTp55_1101_16544_7075_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Oceanospirillales(100);SAR86_clade(99);unclassified(99);
Otu0130 9 FTp55_1101_10483_14862_(reversed) Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Bdellovibrionales(100);Bacterioviraceae(100);Halobacteriovirax(100);
Otu0131 4 FTp55_1102_8162_31500_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Alteromonadales(100);Colwelliaceae(100);Thalassotalea(100);
Otu0132 16 FTp55_1101_13598_27702_(reversed) Bacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0133 22 FTp55_1102_21131_2756_(reversed) Bacteria(100);Bacteroidetes(100);Sphingobacteriales(100);Sphingobacteriales(100);Saprospiraceae(100);unclassified(100);
Otu0134 88 FTp55_1101_6999_14586_(reversed) Bacteria(100);Bacteroidetes(100);unclassified(77);unclassified(77);unclassified(77);unclassified(77);
Otu0135 9 FTp55_1101_18915_17664_(reversed) Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Owenweeksia(100);
Otu0136 355 FTp55_1101_12117_5069_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodospirillales(100);Rhodospirillaceae(100);AEGEAN-169_marine_group(100);
Otu0137 11 FTp55_1101_24409_16042_(reversed) Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Bdellovibrionales(100);Bacterioviraceae(100);Halobacteriovirax(73);
Otu0138 12 FTp55_1101_9103_13566_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);unclassified(75);unclassified(75);unclassified(75);
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Otu0140 6 FTp55_1102_11843_15488_(reversed) Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Campylobacteraceae(100);Arcobacter(100);
Otu0141 10 FTp55_1102_8751_20236_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);unclassified(100);
Otu0142 7 FTp55_1101_27160_8290_(reversed) Bacteria(100);Proteobacteria(100);unclassified(72);unclassified(72);unclassified(72);unclassified(72);
Otu0143 171 FTp55_1101_8398_4450_(reversed) Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);NS4_marine_group(100);
Otu0144 6 FTp55_1101_3976_3441_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodospirillales(100);Rhodospirillaceae(100);Defluviococcus(100);
Otu0145 86 FTp55_1101_6799_9318_(reversed) Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);NS9_marine_group(100);unclassified(100);
Otu0146 5 FTp55_1101_16355_16707_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);Oceanospirillum(100);
Otu0147 12 FTp55_1101_4370_21114_(reversed) Archaea(100);Euryarchaeota(100);Thermoplasmata(100);Thermoplasmatales(100);Marine_Group_II(100);unclassified(100);
Otu0148 12 FTp55_1101_9270_19009_(reversed) Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Campylobacteraceae(100);Arcobacter(100);
Otu0149 25 FTp55_1101_18750_8722_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);Oleispira(100);
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Otu0155 11 FTp55_1101_12398_3775_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rickettsiales(100);SAR116_clade(100);unclassified(100);
Otu0156 153 FTp55_1101_13182_2920_(reversed) Bacteria(100);Marinimicrobia_SAR406_clade(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0157 102 FTp55_1101_20755_11184_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rickettsiales(100);SAR116_clade(100);unclassified(100);
Otu0158 9 FTp55_1101_15162_13623_(reversed) Archaea(100);Euryarchaeota(100);Thermoplasmata(100);Thermoplasmatales(100);Marine_Group_II(100);unclassified(100);
Otu0159 5 FTp55_1101_11493_9911_(reversed) Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);Winogradskyella(100);
Otu0160 4 FTp55_1102_22696_11154_(reversed) Bacteria(100);Tenericutes(100);Mollicutes(100);NB1-n(100);unclassified(100);unclassified(100);
Otu0161 11 FTp55_1101_19195_2702_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Thiotrichales(82);Thiotrichaceae(82);Thiotrix(82);
Otu0162 523 FTp55_1101_12956_5198_(reversed) Bacteria(100);Proteobacteria(100);Betaproteobacteria(100);Methylophilales(100);Methylophilaceae(100);OM43_clade(100);
Otu0163 83 FTp55_1101_8944_3436_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0164 5 FTp55_1101_13790_21110_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Oceanospirillales(100);Alcanivoracaceae(100);Kangiella(100);
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Otu0171 5 FTp55_1101_20571_6662_(reversed) Bacteria(100);Proteobacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
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Otu0186 2 FTp55_1101_22641_17699_(reversed) Bacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0187 2 FTp55_1101_22692_23753_(reversed) Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);unclassified(100);
Otu0188 2 FTp55_1101_23373_9561_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Sneathiellales(100);Sneathiellaceae(100);Sneathiella(100);
Otu0189 58 FTp55_1101_17710_6589_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);KI89A_clade(100);unclassified(100);unclassified(100);
Otu0190 2 FTp55_1101_22023_13241_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0191 2 FTp55_1101_23989_5459_(reversed) Bacteria(100);Verrucomicrobia(100);Opitutae(100);MB11C04_marine_group(100);unclassified(100);unclassified(100);
Otu0192 2 FTp55_1101_10902_23984_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
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Otu0194 2 FTp55_1101_21936_19105_(reversed) Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Campylobacteraceae(100);Arcobacter(100);
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Otu0198 2 FTp55_1101_25448_6193_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);Reinekeella(100);
Otu0199 2 FTp55_1101_25451_14336_(reversed) Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Campylobacteraceae(100);Arcobacter(100);
Otu0200 2 FTp55_1101_25687_13726_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Oceanospirillales(100);unclassified(100);unclassified(100);
Otu0201 2 FTp55_1101_21105_13477_(reversed) Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Fluviocella(100);
Otu0202 2 FTp55_1101_26322_24325_(reversed) Bacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0203 2 FTp55_1101_26962_23239_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);unclassified(100);
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Otu0207 2 FTp55_1101_27755_9306_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Cellvibrionales(100);Portioccocaceae(100);SAR92_clade(100);
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Otu0209 2 FTp55_1101_28496_11808_(reversed) Bacteria(100);Fusobacteria(100);Fusobacteriales(100);Fusobacteriaceae(100);Fusobacterium(100);
Otu0210 2 FTp55_1101_3083_16182_(reversed) Bacteria(100);Proteobacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0211 2 FTp55_1101_10662_17152_(reversed) Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0212 2 FTp55_1101_20579_24818_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rickettsiales(100);SAR116_clade(100);unclassified(100);
Otu0213 2 FTp55_1101_20565_21111_(reversed) Bacteria(100);Proteobacteria(100);Gammmaproteobacteria(100);Oceanospirillales(100);Alcanivoracaceae(100);Kangiella(100);
Otu0214 2 FTp55_1101_4365_18275_(reversed) Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rickettsiales(100);unclassified(100);unclassified(100);

Otu0215	2	FTP55_1101_11217_8851_(reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0216	2	FTP55_1101_4673_18632_(reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);SAR324_clade(Marine_group_B)(100);unclassified(100);unclassified(100);
Otu0217	2	FTP55_1101_4715_14416_(reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Myxococcales(100);unclassified(100);unclassified(100);
Otu0218	2	FTP55_1101_4839_17172_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Pseudomonadales(100);Moraxellaceae(100);Moraxella(100);
Otu0219	2	FTP55_1101_4842_10528_(reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0220	2	FTP55_1101_20428_15271_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);Marinobacterium(100);
Otu0221	4	FTP55_1101_20281_6864_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0222	43	FTP55_1101_23604_12552_(reversed)	Bacteria(100);Cyanobacteria(100);Cyanobacteria(100);Subsection(100);Family(100);Prochlorococcus(100);
Otu0223	2	FTP55_1101_14483_19156_(reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0224	2	FTP55_1101_19825_14629_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Owenweeksia(100);
Otu0225	2	FTP55_1101_5444_5871_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Alteromonadales(100);unclassified(100);unclassified(100);
Otu0226	2	FTP55_1101_5491_10272_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodospirillales(100);Rhodospirillaceae(100);Defluviococcus(100);
Otu0227	2	FTP55_1101_11326_21584_(reversed)	Bacteria(100);Firmicutes(100);Clostridia(100);Clostridiales(100);unclassified(100);unclassified(100);
Otu0228	2	FTP55_1101_5736_11661_(reversed)	Bacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0229	2	FTP55_1101_18735_21743_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Owenweeksia(100);
Otu0230	2	FTP55_1101_11339_23580_(reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Desulfobacteriales(100);Desulfobulbaceae(100);Desulfopila(100);
Otu0231	2	FTP55_1101_6069_17581_(reversed)	Bacteria(100);Proteobacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0232	2	FTP55_1101_6148_7391_(reversed)	Bacteria(100);Proteobacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0233	4	FTP55_1101_6347_7584_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);NS2b_marine_group(100);
Otu0234	2	FTP55_1101_6711_14777_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);NKBS5(100);unclassified(100);unclassified(100);
Otu0235	2	FTP55_1101_6731_15967_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);NSS_marine_group(100);
Otu0236	2	FTP55_1101_6866_6786_(reversed)	Bacteria(100);Bacteroidetes(100);Bacteroidia(100);Bacteroidia_Incertae_Sedis(100);Draconibacteriaceae(100);Draconibacterium(100);
Otu0237	2	FTP55_1101_19514_28088_(reversed)	Bacteria(100);Proteobacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0238	2	FTP55_1101_6892_24645_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);unclassified(100);
Otu0239	311	FTP55_1101_23489_5178_(reversed)	Bacteria(100);Cyanobacteria(100);Cyanobacteria(100);Subsection(100);Family(100);Synecococcus(100);
Otu0240	2	FTP55_1101_7010_17744_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0241	2	FTP55_1101_7133_22770_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Owenweeksia(100);
Otu0242	2	FTP55_1101_7323_24916_(reversed)	Bacteria(100);Lentisphaerae(100);Lentisphaeria(100);Lentisphaerales(100);Lentisphaeraceae(100);Lentisphaera(100);
Otu0243	2	FTP55_1101_11966_14846_(reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0244	2	FTP55_1101_7829_18093_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);unclassified(100);unclassified(100);
Otu0245	2	FTP55_1101_11680_6327_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);unclassified(100);
Otu0246	29	FTP55_1101_21102_25059_(reversed)	Bacteria(100);Bacteroidetes(100);Bacteroidia(100);Bacteroidia_Incertae_Sedis(100);Prolifibacteraceae(100);Prolifibacter(100);
Otu0247	2	FTP55_1101_8073_23009_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Cellvibrionales(100);Cellvibrionaceae(100);unclassified(100);
Otu0248	2	FTP55_1101_8327_4950_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Owenweeksia(100);
Otu0249	50	FTP55_1101_20928_5110_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rickettsiales(100);SAR116_clade(100);unclassified(100);
Otu0250	2	FTP55_1101_8511_20508_(reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Bdellovibrionales(100);Bacteriovoracaceae(100);Pereidbacter(100);
Otu0251	25	FTP55_1101_10278_3093_(reversed)	Bacteria(100);Cyanobacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0252	2	FTP55_1101_10880_16811_(reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Desulfuromonadales(100);GR-WP33-58(100);unclassified(100);
Otu0253	2	FTP55_1101_8768_12295_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Cellvibrionales(100);Halleaeaceae(100);OM60(NORS)_clade(100);
Otu0254	2	FTP55_1101_19279_7219_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);unclassified(100);
Otu0255	2	FTP55_1101_19217_25639_(reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0256	2	FTP55_1101_9292_3887_(reversed)	Bacteria(100);Tenericutes(100);Mollicutes(100);Acholeplasmatales(100);Acholeplasmataceae(100);Acholeplasma(100);
Otu0257	2	FTP55_1101_9355_14569_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0258	2	FTP55_1101_9451_9193_(reversed)	Bacteria(100);Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Marinilabiaceae(100);Marinifilum(100);
Otu0259	2	FTP55_1101_9291_8955_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0260	2	FTP55_1102_10067_16503_(reversed)	Bacteria(100);Bacteroidetes(100);Sphingobacteria(100);Sphingobacteriales(100);NS11-12_marine_group(100);unclassified(100);
Otu0261	2	FTP55_1101_11482_20957_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0262	2	FTP55_1102_10793_3192_(reversed)	Bacteria(100);Gracilibacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0263	26	FTP55_1101_12299_21356_(reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0264	2	FTP55_1101_19139_23564_(reversed)	Bacteria(100);Bacteroidetes(100);Cytophagia(100);Cytophagales(100);Flammeovirgaceae(100);Fabilacter(100);
Otu0265	2	FTP55_1102_12100_16095_(reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0266	2	FTP55_1102_12670_3833_(reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Bdellovibrionales(100);Bacteriovoracaceae(100);Halobacteriovorax(100);
Otu0267	2	FTP55_1101_19124_14851_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0268	2	FTP55_1101_4358_39686_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);unclassified(100);
Otu0269	2	FTP55_1102_13711_6233_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Owenweeksia(100);
Otu0270	20	FTP55_1101_9621_14005_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Alteromonadales(100);Alteromonadaceae(100);unclassified(100);
Otu0271	2	FTP55_1101_3688_12769_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rickettsiales(100);SAR116_clade(100);unclassified(100);
Otu0272	2	FTP55_1102_14411_5703_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0273	2	FTP55_1101_29070_12518_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);unclassified(100);
Otu0274	2	FTP55_1102_14481_11112_(reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0275	2	FTP55_1102_14522_3800_(reversed)	Bacteria(100);Lentisphaerae(100);Oligosphaeria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0276	2	FTP55_1102_14589_10807_(reversed)	Bacteria(100);Bacteroidetes(100);Cytophagia(100);Cytophagales(100);Flammeovirgaceae(100);Marinosillum(100);
Otu0277	2	FTP55_1102_14737_11859_(reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Oligoflexales(100);Oligoflexaceae(100);unclassified(100);
Otu0278	2	FTP55_1102_14752_4745_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rickettsiales(100);SAR116_clade(100);unclassified(100);
Otu0279	2	FTP55_1102_14755_10181_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);unclassified(100);unclassified(100);
Otu0280	2	FTP55_1102_16146_8771_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodospirillales(100);Rhodospirillaceae(100);AEGEAN-169_marine_group(100);
Otu0281	2	FTP55_1102_16161_3737_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);unclassified(100);
Otu0282	2	FTP55_1101_11526_14087_(reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0283	2	FTP55_1102_16509_20036_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);Oceaniserpentilla(100);
Otu0284	2	FTP55_1101_18620_15716_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Alteromonadales(100);unclassified(100);unclassified(100);
Otu0285	2	FTP55_1102_16758_12898_(reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Desulfuromonadales(100);unclassified(100);unclassified(100);
Otu0286	2	FTP55_1102_17482_2776_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);unclassified(100);
Otu0287	2	FTP55_1102_18511_2178_(reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Bdellovibrionales(100);Bdellovibrionaceae(100);OM27_clade(100);
Otu0288	2	FTP55_1102_18911_5551_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0289	19	FTP55_1101_11740_14102_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);Marinomonas(100);
Otu0290	2	FTP55_101_24708_9146_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Alteromonadales(100);unclassified(100);unclassified(100);
Otu0291	59	FTP55_1101_22226_12011_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);NSS_marine_group(100);
Otu0292	2	FTP55_1102_20662_2432_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Owenweeksia(100);
Otu0293	35	FTP55_1101_9195_9715_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);unclassified(100);
Otu0294	2	FTP55_1102_20957_12728_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);unclassified(100);
Otu0295	2	FTP55_1102_20989_8298_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);Nepuniibacter(100);
Otu0296	2	FTP55_1101_18492_7454_(reversed)	Bacteria(100);Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);unclassified(100);
Otu0297	2	FTP55_1102_21879_19430_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);NS9_marine_group(100);unclassified(100);
Otu0298	40	FTP55_1101_14650_28277_(reversed)	Bacteria(100);Bacteroidetes(100);Alphaproteobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);NSS_marine_group(100);
Otu0299	2	FTP55_1101_22444_23767_(reversed)	Bacteria(100);Firmicutes(100);Clostridia(100);Clostridiales(100);Family_XII(100);Fusibacter(100);
Otu0300	2	FTP55_1101_12105_16676_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Alteromonadales(100);Alteromonadaceae(100);unclassified(100);
Otu0301	2	FTP55_1102_25264_9549_(reversed)	Bacteria(100);Fusobacteria(100);Fusobacteriales(100);Leptotrichiaceae(100);Sebaldella(100);
Otu0302	2	FTP55_1102_27547_11169_(reversed)	Bacteria(100);Tenericutes(100);Mollicutes(100);Entomoplasmatales(100);Entomoplasmatales_Incertae_Sedis(100);Candidatus_Hepatoplasma(100);
Otu0303	2	FTP55_1102_4779_7559_(reversed)	Bacteria(100);Marinimicrobia_(SAR406_clade)(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0304	2	FTP55_1102_5136_12481_(reversed)	Bacteria(100);Firmicutes(100);Clostridia(100);Clostridiales(100);unclassified(100);unclassified(100);unclassified(100);
Otu0305	2	FTP55_1102_5544_10564_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);unclassified(100);
Otu0306	2	FTP55_1102_5765_12310_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);unclassified(100);
Otu0307	2	FTP55_101_23154_9627_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);DB1-14(100);unclassified(100);unclassified(100);
Otu0308	2	FTP55_1102_7706_6870_(reversed)	Bacteria(100);Proteobacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0309	2	FTP55_1102_8401_13690_(reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Campylobacteraceae(100);Arcobacter(100);
Otu0310	2	FTP55_1101_17873_15860_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0311	2	FTP55_1101_17863_20458_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);unclassified(100);
Otu0312	16	FTP55_1101_7666_6256_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0313	2	FTP55_1102_9426_7285_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0314	2	FTP55_1102_9499_5395_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhizobiales(100);Rhodobiaceae(100);Rhodobiaceae(100);
Otu0315	2	FTP55_101_22416_15482_(reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Campylobacteraceae(100);Arcobacter(100);
Otu0316	2	FTP55_1101_12237_9893_(reversed)	Bacteria(100);Verrucomicrobia(100);Verrucomicrobiae(100);Verrucomicrobiales(100);Verrucomicrobiaceae(100);Roseibacillus(100);
Otu0317	2	FTP55_1101_17726_16900_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);unclassified(100);unclassified(100);
Otu0318	2	FTP55_1101_17576_11791_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0319	28	FTP55_1101_17648_12999_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Order_Incertae_Sedis(100);Family_Incertae_Sedis(100);Marinicella(100);
Otu0320	22	FTP55_1101_15645_5410_(reversed)	Bacteria(100);Marinimicrobia_(SAR406_clade)(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0321	2	FTP55_1101_12268_24133_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Owenweeksia(100);
Otu0322	2	FTP55_101_20400_14137_(reversed)	Bacteria(100);Proteobacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);

Otu0323	2	FTP55_1101_17480_8125__ (reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0324	3	FTP55_1101_15868_13586__ (reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);unclassified(100);
Otu0325	2	FTP55_1101_17405_15543__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Vibrionales(100);Vibrionaceae(100);unclassified(100);
Otu0326	3	FTP55_1101_16446_9311__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);SAR11_clade(100);Surface_1(100);unclassified(100);
Otu0327	3	FTP55_1101_16502_10331__ (reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0328	2	FTP55_1101_17344_8044__ (reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);N55_marine_group(100);
Otu0329	2	FTP55_1101_12302_4675__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodospirillales(100);Rhodospirillaceae(100);Novispirillum(100);
Otu0330	3	FTP55_1101_19442_10865__ (reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Bdellovibrionales(100);Bdellovibrionaceae(100);Bdellovibri(100);
Otu0331	2	FTP55_1101_17167_22020__ (reversed)	Bacteria(100);Proteobacteria(100);Betaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0332	3	FTP55_1101_19805_15220__ (reversed)	Bacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0333	3	FTP55_1101_19987_12172__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);4-Org1-14(100);unclassified(100);unclassified(100);
Otu0334	3	FTP55_1101_21823_11572__ (reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0335	3	FTP55_1101_22559_14853__ (reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Campylobacteraceae(100);Arcobacter(100);
Otu0336	3	FTP55_1101_22563_9110__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Kordiimonadales(100);unclassified(100);unclassified(100);
Otu0337	3	FTP55_1101_25037_9111__ (reversed)	Bacteria(100);Bacteroidetes(100);Sphingobacteria(100);Sphingobacteriales(100);Saprospiraceae(100);unclassified(100);
Otu0338	2	FTP55_1101_12492_27121__ (reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0339	15	FTP55_1101_17979_25670__ (reversed)	Bacteria(100);Verrucomicrobia(100);Verrucomicrobiae(100);Verrucomicrobiales(100);Verrucomicrobiaceae(100);Roseibacillus(100);
Otu0340	17	FTP55_1101_17379_2190__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Alteromonadales(100);Pseudoalteromonadaceae(100);Psychrosphaera(100);
Otu0341	3	FTP55_1101_27351_8450__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rickettsiales(100);SAR116_clade(100);unclassified(100);
Otu0342	3	FTP55_1101_28108_10151__ (reversed)	Bacteria(100);Firmicutes(100);Bacilli(100);Lactobacillales(100);Streptococcales(100);Streptococcus(100);
Otu0343	3	FTP55_1101_3373_14563__ (reversed)	Bacteria(100);Proteobacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0344	2	FTP55_101_18811_24684__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rickettsiales(100);unclassified(100);unclassified(100);
Otu0345	3	FTP55_1101_4970_6526__ (reversed)	Bacteria(100);Bacteroidetes(100);Cytophagia(100);Cytophagales(100);unclassified(100);unclassified(100);
Otu0346	3	FTP55_1101_5434_13513__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);unclassified(100);unclassified(100);
Otu0347	3	FTP55_1101_6061_8793__ (reversed)	Bacteria(100);Cyanobacteria(100);Cyanobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0348	3	FTP55_1101_7463_11935__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Litoricolaceae(100);Litoricola(100);
Otu0349	2	FTP55_1101_16846_4431__ (reversed)	Bacteria(100);Proteobacteria(100);SC3-20(100);unclassified(100);unclassified(100);unclassified(100);
Otu0350	2	FTP55_101_17862_9298__ (reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0351	5	FTP55_1102_8492_5707__ (reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);Winogradskyella(100);
Otu0352	2	FTP55_101_17212_14536__ (reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);Aquibacter(100);
Otu0353	4	FTP55_102_13595_9468__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Cellvibrionales(100);Haliaceae(100);Pseudohalaea(100);
Otu0354	14	FTP55_1101_18796_5694__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Alcanivoracaeae(100);Alcanivorax(100);
Otu0355	2	FTP55_101_17061_8022__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rickettsiales(100);SAR116_clade(100);unclassified(100);
Otu0356	4	FTP55_1101_11848_4295__ (reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Bdellovibrionales(100);Bacteriovoracaeae(100);Halobacteriovorax(100);
Otu0357	2	FTP55_1101_16803_2576__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0358	2	FTP55_1101_16754_18066__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);Labrenzia(100);
Otu0359	4	FTP55_1101_13524_2080__ (reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Owenweeksia(100);
Otu0360	6	FTP55_1101_13632_24668__ (reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0361	4	FTP55_1101_13675_3052__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0362	4	FTP55_1101_13917_2262__ (reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Desulfobacteriales(100);Desulfobacteraceae(100);unclassified(100);
Otu0363	4	FTP55_1101_13937_15779__ (reversed)	Bacteria(100);Lentisphaerae(100);Oligosphaeria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0364	2	FTP55_101_16826_7692__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0365	4	FTP55_1101_15866_10530__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);unclassified(100);
Otu0366	2	FTP55_101_15912_10437__ (reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Bdellovibrionales(100);Bdellovibrionaceae(100);DM27_clade(100);
Otu0367	15	FTP55_1101_17412_9310__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rickettsiales(100);S25-593(100);unclassified(100);
Otu0368	4	FTP55_1101_19629_14903__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Oleiphilaceae(100);Oleiphilus(100);
Otu0369	4	FTP55_1101_19655_9411__ (reversed)	Bacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0370	2	FTP55_1101_16632_17718__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Alteromonadales(100);Pseudoalteromonadaceae(100);Algicola(100);
Otu0371	4	FTP55_1101_20441_12228__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);unclassified(100);
Otu0372	4	FTP55_1101_22978_11852__ (reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);N55_marine_group(100);
Otu0373	4	FTP55_1101_23100_9039__ (reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Owenweeksia(100);
Otu0374	12	FTP55_1101_8031_2530__ (reversed)	Bacteria(100);Proteobacteria(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);Aquibacter(100);
Otu0375	12	FTP55_1101_5135_20450__ (reversed)	Bacteria(100);Marinimicrobia (SAR406_clade)(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0376	2	FTP55_1101_12547_14674__ (reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Desulfobacteriales(100);Desulfobacteraceae(100);Desulfovibrio(100);
Otu0377	4	FTP55_1101_23944_4555__ (reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);SAR324_clade(Marine_group_B)(100);unclassified(100);unclassified(100);
Otu0378	2	FTP55_1101_16458_18111__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0379	4	FTP55_1101_25441_14823__ (reversed)	Bacteria(100);Bacteroidetes(100);Sphingobacteria(100);Sphingobacteriales(100);Saprospiraceae(100);unclassified(100);
Otu0380	4	FTP55_1101_26883_12135__ (reversed)	Bacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0381	2	FTP55_101_15118_26030__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Thiotrichales(100);Thiotrichaceae(100);unclassified(100);
Otu0382	4	FTP55_1101_3711_9253__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0383	12	FTP55_1101_15132_8174__ (reversed)	Bacteria(100);Gracilibacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0384	4	FTP55_1101_4495_7193__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);DB1-14(100);unclassified(100);unclassified(100);
Otu0385	2	FTP55_101_14765_5997__ (reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Desulfobacteriales(100);Desulfobulbaceae(100);unclassified(100);
Otu0386	15	FTP55_1101_13740_13697__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0387	12	FTP55_1101_12500_5137__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);SAR86_clade(100);unclassified(100);
Otu0388	2	FTP55_1101_16332_11081__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0389	4	FTP55_1102_8909_10206__ (reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Flavobacteriaceae(100);N54_marine_group(100);
Otu0390	4	FTP55_1102_9040_7344__ (reversed)	Bacteria(100);Proteobacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0391	2	FTP55_1101_16151_10482__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);unclassified(100);
Otu0392	11	FTP55_1102_11792_3434__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);Marinobacterium(100);
Otu0393	5	FTP55_1101_12323_7419__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0394	5	FTP55_1101_12372_11814__ (reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Oligoflexales(100);Oligoflexaceae(100);unclassified(100);
Otu0395	2	FTP55_1101_13164_8951__ (reversed)	Bacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0396	5	FTP55_1101_14338_22436__ (reversed)	Bacteria(100);Proteobacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0397	5	FTP55_1101_19111_9134__ (reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0398	5	FTP55_1101_22119_17373__ (reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Fluvicola(100);
Otu0399	5	FTP55_1101_24439_6959__ (reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0400	2	FTP55_101_10903_5724__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Cellvibrionales(100);Cellvibrionaceae(100);Simidiua(100);
Otu0401	5	FTP55_1102_18168_2785__ (reversed)	Bacteria(100);Bacteroidetes(100);Bacteroidia(100);Bacteroidia_Incertae_Sedis(100);Dracolibacteriaceae(100);Dracolibacterium(100);
Otu0402	11	FTP55_101_12620_25473__ (reversed)	Archaea(100);Euryarchaeota(100);Thermoplasmata(100);Thermoplasmatales(100);Marine_Group_II(100);unclassified(100);
Otu0403	11	FTP55_1101_18343_28778__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);Litoribacillus(100);
Otu0404	6	FTP55_1101_8445_8224__ (reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Campylobacteraceae(100);Arcobacter(100);
Otu0405	6	FTP55_1101_17101_25748__ (reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);N57_marine_group(100);unclassified(100);
Otu0406	6	FTP55_1101_20848_4399__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0407	6	FTP55_1101_21869_11920__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Alteromonadales(100);Pseudoalteromonadaceae(100);Algicola(100);
Otu0408	6	FTP55_1101_22474_4312__ (reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0409	6	FTP55_1101_24187_5079__ (reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteria(100);Flavobacteriales(100);Cryomorphaceae(100);Owenweeksia(100);
Otu0410	6	FTP55_1101_25972_7812__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Salinisphaerales(100);Salinisphaeraceae(100);ZD0417_marine_group(100);
Otu0411	6	FTP55_1101_26353_10014__ (reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Campylobacteraceae(100);Arcobacter(100);
Otu0412	2	FTP55_101_10673_9518__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Thiotrichales(100);Francisellaceae(100);Francisella(100);
Otu0413	2	FTP55_1101_15282_20822__ (reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Campylobacteraceae(100);Arcobacter(100);
Otu0414	6	FTP55_1102_11263_5438__ (reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Helicobacteraceae(100);Sulfurovum(100);
Otu0415	10	FTP55_1102_24758_10891__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Alteromonadales(100);Ferrimonadaceae(100);Ferrimonas(100);
Otu0416	6	FTP55_1102_15663_17759__ (reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Bdellovibrionales(100);Bdellovibrionaceae(100);DM27_clade(100);
Otu0417	10	FTP55_1102_22329_14339__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);NK85(100);unclassified(100);unclassified(100);
Otu0418	2	FTP55_1101_15090_26781__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);unclassified(100);unclassified(100);
Otu0419	10	FTP55_1102_11941_9712__ (reversed)	Bacteria(100);Bacteroidetes(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0420	6	FTP55_1102_20412_11797__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Cellvibrionales(100);Cellvibrionaceae(100);Pseudomarcivivus(100);
Otu0421	2	FTP55_1101_14267_13671__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);unclassified(100);unclassified(100);unclassified(100);
Otu0422	7	FTP55_101_11961_3035__ (reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Helicobacteraceae(100);RS-M59_termite_group(100);
Otu0423	7	FTP55_101_6221_6244__ (reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Campylobacteraceae(100);Sulfurospirillum(100);
Otu0424	7	FTP55_1101_16269_10580__ (reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);SAR86_clade(100);unclassified(100);
Otu0425	11	FTP55_1101_22317_10622__ (reversed)	Bacteria(100);Firmicutes(100);Clostridia(100);Clostridiales(100);Family_XIII(100);Fusibacter(100);
Otu0426	7	FTP55_1101_25222_12679__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rickettsiales(100);SAR116_clade(100);unclassified(100);
Otu0427	7	FTP55_1101_26089_15281__ (reversed)	Bacteria(100);Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Marinilabiaceae(100);Marinifilium(100);
Otu0428	7	FTP55_1101_4642_11894__ (reversed)	Bacteria(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);unclassified(100);
Otu0429	9	FTP55_1102_26567_15754__ (reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);SAR11_clade(100);unclassified(100);unclassified(100);
Otu0430	8	FTP55_101_13735_15466__ (reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Helicobacteraceae(100);Sulfurovum(100);

Otu0431	8 FTP55_1101_14576_8251_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodobacterales(100);Rhodobacteraceae(100);unclassified(100);
Otu0432	8 FTP55_1101_20566_2331_(reversed)	Bacteria(100);Fusobacteria(100);Fusobacteriia(100);Fusobacteriales(100);Fusobacteriaceae(100);Cetobacterium(100);
Otu0433	10 FTP55_1101_17573_20759_(reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Desulfovibrionales(100);Desulfovibrionaceae(100);Desulfovibrio(100);
Otu0434	8 FTP55_1101_26614_18965_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Cellvibrionales(100);Cellvibrionaceae(100);unclassified(100);
Otu0435	8 FTP55_1101_7596_10787_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Alteromonadales(100);Alteromonadaceae(100);Marinobacter(100);
Otu0436	9 FTP55_1101_10579_12643_(reversed)	Bacteria(100);Proteobacteria(100);Alphaproteobacteria(100);Rhodospirillales(100);Rhodospirillaceae(100);AEGEAN-169_marine_group(100);
Otu0437	10 FTP55_102_9908_19722_(reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Helicobacteraceae(100);Sulfurimonas(100);
Otu0438	2 FTP55_1101_15059_13708_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteriia(100);Flavobacteriales(100);NS9_marine_group(100);unclassified(100);
Otu0439	9 FTP55_1101_16561_18036_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteriia(100);Flavobacteriales(100);Flavobacteriaceae(100);Nonlabens(100);
Otu0440	9 FTP55_1101_18458_18934_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Alteromonadales(100);Pseudoalteromonadaceae(100);Algicola(100);
Otu0441	2 FTP55_1101_14792_10734_(reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Helicobacteraceae(100);Sulfurovum(100);
Otu0442	17 FTP55_1101_23568_6348_(reversed)	Bacteria(100);Proteobacteria(100);Gammaproteobacteria(100);Oceanospirillales(100);Oceanospirillaceae(100);Neptuniibacter(100);
Otu0443	9 FTP55_1102_10110_15101_(reversed)	Bacteria(100);Bacteroidetes(100);Flavobacteriia(100);Flavobacteriales(100);Cryomorphaceae(100);Owenweeksia(100);
Otu0444	11 FTP55_1101_7376_5602_(reversed)	Bacteria(100);Proteobacteria(100);Epsilonproteobacteria(100);Campylobacteriales(100);Campylobacteraceae(100);Arcobacter(100);
Otu0445	9 FTP55_1101_8234_11233_(reversed)	Bacteria(100);Proteobacteria(100);Deltaproteobacteria(100);Oligoflexales(100);Oligoflexaceae(100);unclassified(100);

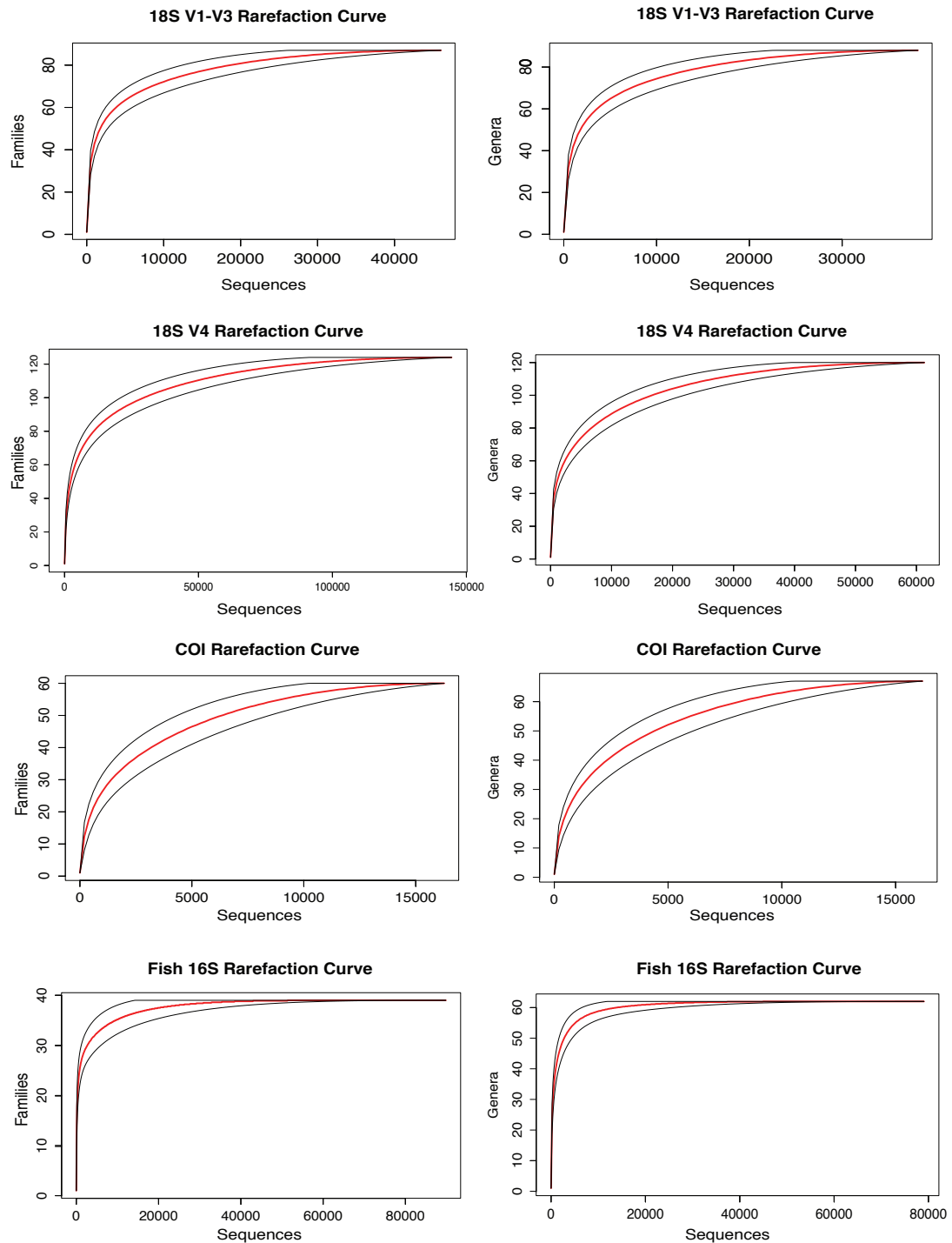
Supplementary Data 4

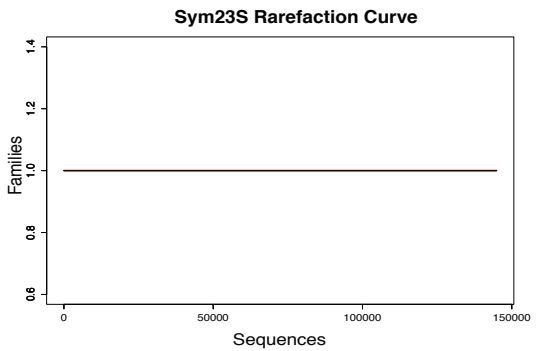
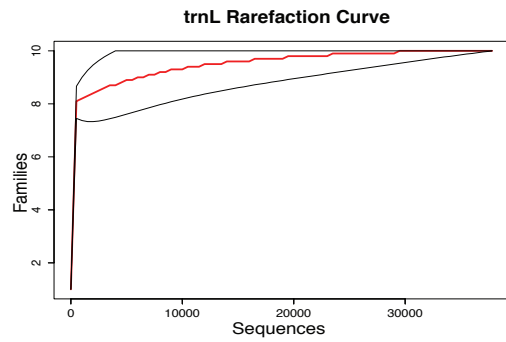
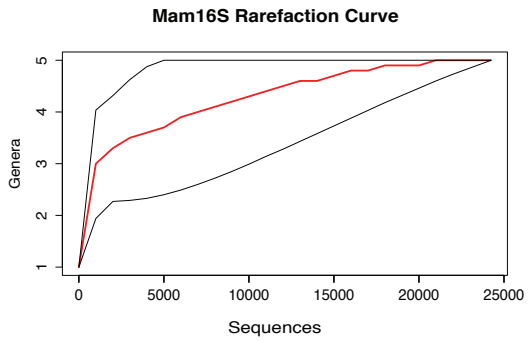
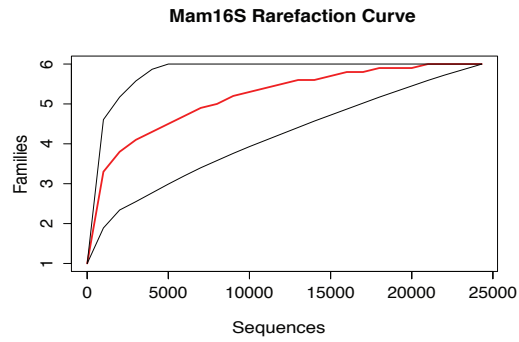
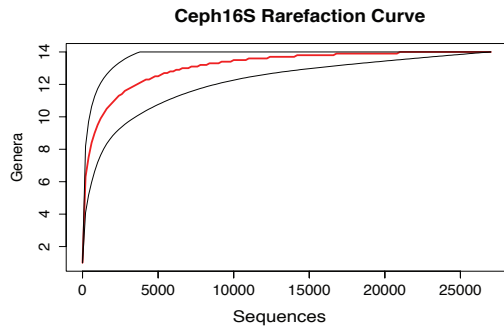
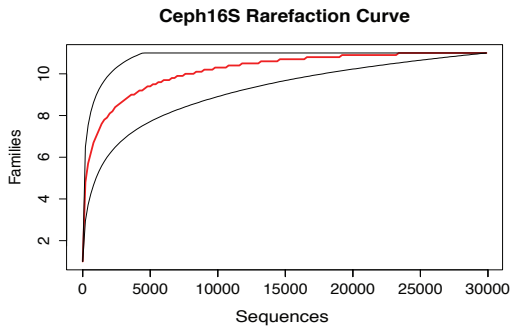
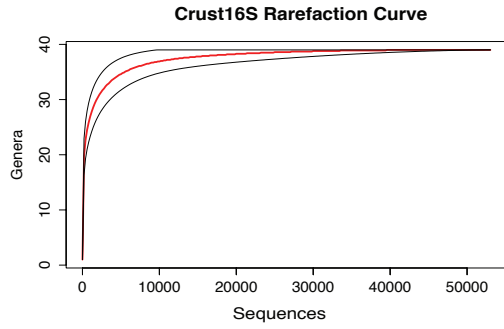
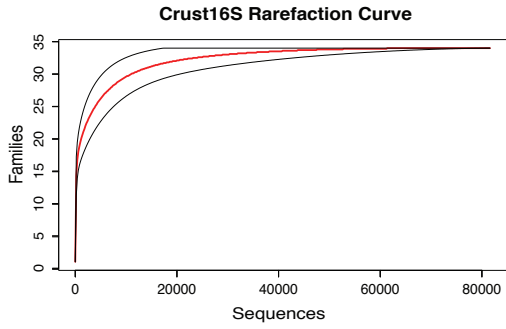


Line graph representing the mean number of eukaryotic taxa recorded at Coral Bay using eDNA. Coloured lines indicate the mean number of taxa identified for each taxonomic rank for six PCR assays that target eukaryotes. Sequences were normalised across each sample and assay to 2363 sequences. Vertical lines represent the standard error.

Supplementary Data 5

Rarefaction plots depicting the number of sequences recovered for each of the nine PCR assays that target eukaryotes and the relationship to the number of taxa (i.e. families or genera) recovered. Rarefaction lines are in red with 95% upper and lower confidence limits in grey.





Supplementary Data 6. Primer sets used in the amplification of eDNA sampled from Coral Bay seawater.

Primer Name	Oligonucleotide Sequence	PCR Annealing Temp. °C	Target taxa	Region	Amplicon Size (bp)	Primer Reference
18S_1F 18S_400R	5' GCCAGTAGTCATATGCTTGTCT 3' 5' GCCTGCTGCCTTCCTT 3'	52, 58, 64	Eukaryotes	nuclear 18S rDNA	336-423	Pochon et al. 2013
18S_V4F 18S_V4R	5' GCAGTAAAAAGCTCGTAG 3' 5' TCCAAGAATTRCACCTCT 3'	50, 55, 60	Eukaryotes	nuclear 18S rDNA	240-420	This study
mlCOIintF jgHCO2198	5' GGWACWGGWTGAACWGTWTAYCCYCC 3' 5' TAIACYTCIAAYCAYAARGAYATTGG 3'	46, 51, 56	Metazoans	mitochondria COI	304-313	Leray et al. 2013
16SF/D 16S2R-degenerate	5' GACCCTATGGAGCTTTAGAC 3' 5' CGCTGTTATCCCTADRGTAAC 3'	54	Fish	mitochondria 16S rDNA	178-228	Berry et al. 2017 Deagle et al. 2007
16Smam1 16Smam2	5' CGGTTGGGGTGACCTCGGA 3' 5' GCTGTTATCCCTAGGGTAACT 3'	57	Mammals	mitochondria 16S rDNA	86-116	Taylor 1996
Crust16S_F(short) Crust16S_R(short)	5' GGGACGATAAGACCCTATA 3' 5' ATTACGCTGTTATCCCTAAAAG 3'	51	Crustaceans	mitochondria 16S rDNA	90-213	Berry et al. 2017
S_Cephalopoda_F S_Cephalopoda_R	5' GCTRGAATGAATGGTTTGAC 3' 5' TCAWTAGGGTCTTCTCGTCC 3'	50	Cephalopods	mitochondria 16S rDNA	70-73	Peters et al. 2014
23SHYPERUP 23SHYPERDN	5' TCAGTACAAATAATATGCTG 3' 5' TTATCGCCCAATTAACAGT 3'	50	<i>Symbiodinium</i>	chloroplast 23S rDNA	122-163	Santos et al. 2003 Manning & Gates 2008
trnLc trnLh	5' CGAAATCGGTAGACGCTACG 3' 5' CCATTGAGTCTCTGCACCTATC 3'	52	Plants	chloroplast trnL	122-157	Taberlet et al. 1991 Taberlet et al. 2007
515F R806	5' GTGCCAGCMGCCGCGGTAA 3' 5' GGACTACHVGGGTWCTAAT 3'	50	Prokaryotes	16S rDNA	253-254	Turner et al. 1999 Caporaso et al. 2011

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