

Supplement Table S3. Terminal restriction fragments (T-RFs) are shown with their size (bp), relative abundance % (sd) at each location (inner and outer nearshore), phylogenetic affiliation (as classified using the greengenes batch sequence classifier [<http://greengenes.lbl.gov/cgi-bin/nph-classify.cgi>] using the NCBI taxonomy) and accession number as derived from the 16S rRNA gene clone libraries from each location.

16S rRNA identification of the nearest phylogenetic neighbour with accession number and sequence similarity (%) to each corresponding T-RF as determined by BLAST from the Greengenes database are shown.

T-RF size (bp)	Clone and accession number	Relative abundance at each location % (sd)		Nearest relative with accession number	Sequence similarity (%)
		inner	Outer		
<b>Alphaproteobacteria</b>					
402	Rhodobacteraceae (JQ726916)	9.02 (2.54)	30.21 (1.90)	Maribius sp. str. UDC481 (HM032012.1)	94.6
400	Rhodovulum (JQ726908)	13.74 (3.54)	27.36 (3.58)	Rhodovulum sp. str. SMB1 (DQ868668.1)	91.8
401	Roseobacter (JF261782)	10.54 (3.58)	12.32 (5.55)	Roseobacter sp. str. DSS-8 (AF098493.1)	99.2
113	Erythrobacter (JQ726904)	12.27 (3.27)	7.74 (1.23)	Erythrobacter sp. str. DG1288 (DQ486501.1)	99.3
404	Pseudorugeria (JF261850)	10.46 (2.56)	3.91 (0.51)	Pseudorugeria sp. str. HD-43 (FJ374173.1)	94.9
<b>Gammaproteobacteria</b>					
116	Alteromonas (JQ727104)	17.46 (3.31)	10.46 (3.31)	Alteromonas sp. str. UST981101-018 (EU982327.1)	99.4
451	Aestuariibacter (JQ726913)	2.74 (0.42)	1.72 (0.35)	Aestuariibacter halophilus str. JC2043 (AY207503.1)	95.8
115	Microbulbifer (JQ726945)	2.36 (0.01)	6.27 (0.12)	Marine str. HTCC2188 (AY386344.1)	95.0
87	Neptunomas (JQ727205)	21.13 (0.71)	7.31 (0.71)	Oleiphilus messinensis ME102 (AJ295154.1)	90.9
95	Oceanospirillum (JQ727083)	12.3 (8.16)	7.63 (5.55)	Oceanospirillum sp. str. P95 (EU195939.1)	90.9
<b>Deltaproteobacteria</b>					
126	Desulfuromonas (JQ727081)	2.45 (0.30)	1.38 (0.21)	Marine sediment clone (GU302422.1)	98.2
127	Desulfomonile (JQ727190)	4.53 (0.47)	2.47 (0.55)	Tidal flat sediment clone MSB-1B5 (EF125392.1)	99.2
<b>Bacteroidetes</b>					
55	Flavobacteriaceae (JQ726884)	21.77 (12.37)	11.96 (4.49)	Aquimarina sp. str. antisso-27 (FJ882164.2)	98.1
58	Flexibacteraceae (JQ727194)	9.88 (3.31)	6.66 (2.69)	Flexibacter aggregans str. IFO 15974 (AB078038.1)	91.1
507	Cytophaga (JQ727183)	7.65 (1.28)	2.13 (0.75)	Cytophaga sp. 50.n (AB013834.1)	85.1

106	Flexibacter (JQ727172)	27.69 (6.47)	20.31 (4.47)	Flexibacter sp. str. SH9.43.1 (AB265187.1)	85.0
512	Marinicola (JQ726893)	4.31 (1.93)	4.86 (1.50)	Marinicola seohaensis str. SW-152 (AY739663.1)	90.2
109	Microscilla (JQ727102)	16.31 (3.92)	3.68 (0.49)	Fulvivirga kasyanovii (AB433335.1)	94.1
105	Muricauda (JQ726911)	16.69 (0.84)	2.46 (0.82)	Muricauda sp. str. 2PR55-3 (EU440997.1)	93.4
107	Roseivirga (JQ727140)	38.24 (0.19)	3.85 (0.19)	Roseivirga ehrenbergii str. UDC351 (GQ246639.1)	90.1
56	Flavobacteria (JQ727050)	12.0 (4.01)	7.61 (2.49)	Winogradskyella sp. str. 022-2-26 (FJ595484.1)	93.4
168	Gelidibacter (JQ727110)	8.21 (2.30)	2.31 (0.87)	Deep-sea sediment clone BD2-17 (AB015545.1)	94.3
111	Gaetbulibacter (JQ726897)	39.71 (1.85)	12.93 (1.85)	Owenweeksia hongkongensis str. UST20020801 (AB125062.1)	89.6
114	Winogradskyella (JQ726903)	17.79 (8.72)	5.69 (2.76)	Winogradskyella sp. str. DPG-24 (HM368527.1)	97.4
<b>Cyanobacteria</b>					
456	Synechococcus (JQ726906)	11.84 (3.87)	13.73 (3.87)	Synechococcus sp. str. PCC 8806 (AF448077.1)	91.1
454	Synechocystis (JQ726891)	15.12 (2.68)	21.85 (8.68)	Synechocystis sp. str. PCC 6308 (AB039001.1)	91.7
457	Leptolyngbya (JQ726882)	5.90 (2.82)	11.74 (4.48)	Limnothrix sp. str. B15 (GQ848190.1)	91.0
453	Phormidium (JQ726931)	7.63 (0.46)	11.43 (3.49)	Phormidium pristleyi ANT.PROGRESS2.6 (AY493585.1)	90.1
459	Prochlorothrix (JQ726928)	12.97 (1.75)	18.97 (7.04)	Acanthopleuribacter pedis str. NBRC 101209 (AB303221.1)	91.3
<b>Diatom</b>					
464	Gyrosigma (JQ726985)	10.82 (3.45)	5.65 (0.83)	Amphiprora paludosa str. CCMP 125 C52 (FJ002240.1)	98.9
462	Lauderia (JQ726883)	12.14 (4.51)	11.83 (4.03)	Skeletonema pseudocostatum str. CSIRO CS-76	99.7
524	Thalassiosira (JQ726963)	0	2.59 (0.64)	Aureoumbra lagunensis str. CCMP 1507 (GQ231542.1)	94.0
508	Navicula (JQ727023)	15.73 (4.31)	0	Navicula sp. C21 (FJ002227.1)	98.6
460	Nanofrustulum (JQ727026)	6.59 (2.19)	3.06 (1.49)	Fucus vesiculosus (DQ307678.1)	96.7
468	Codium (JQ727051)	0	18.91 (2.67)	Rickettsia sp. str. IO1 (AF394906.1)	72.8

461	Haslea (JQ726946)	20.03 (7.90)	12.83 (2.36)	Fucus vesiculosus (DQ307678.1)	96.8
	<b>Firmicutes</b>				
270	Carboxythermus (JF261862)	12.81 (6.21)	0	Thermosinus carboxydivorans str. Nor1 (AAWL01000009.1)	77.8
	<b>Acidobacteria</b>				
272	Terriglobus (JQ726928)	4.13 (0.41)	0	Acanthopleuribacter pedis str. NBRC 101209 (AB303221.1)	91.3
	<b>Unidentified</b>				
79		0	3.82 (0.43)		
80		0	1.82 (0.25)		
84		0	4.39 (1.72)		
88		0	1.98 (0.08)		
149		3.52 (1.02)	0		
267		10.02 (0.38)	0		
290		9.87 (1.24)	12.95 (5.52)		
292		4.12 (0.78)	8.30 (3.91)		
295		0	27.90 (9.88)		
442		12.01 (3.90)	12.68 (6.12)		
451		6.23 (1.04)	5.53 (2.25)		
452		15.87 (4.65)	0		