Supplement

Evaluating the quorum quenching potential of bacteria associated to *Aurelia aurita* and *Mnemiopsis leidyi*

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Tab. S1: Primers used for QQ-ORF amplification and sequence analysis. Underlined parts are added restriction sites for directed cloning.

Primer	Sequence 5´→ 3´
91_5/E6_ORF1_for	GAATTCATGAACTTTACAGACAAATCAATTAAGGC
91_5/E6_ORF1_rev	TCTAGATTACAATACTAAGCTTACTTTATGGC
91_5/E6_ORF2_for	GAATTCATGCGTGGTACCCTAAACATTGC
91_5/E6_ORF2_rev	AAGCTTTTACAGACCTCCCTTGAGATACCGC
91_5/E6_ORF3_for	GAATTCATGAGCAACAATAAAGACACAGTGC
91_5/E6_ORF3_rev	AAGCTTTTAATGAGCAACAATAAAGACACAG

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Tab. S2: Bacteria isolated from *Aurelia aurita*, *Mnemiopsis leidyi* and ambient seawater. Bacteria were isolated by classical enrichment on agar plates and taxonomically classified based on full length 16S rRNA gene sequences. QQ activities of isolates are stated in (-) no activity, (+) low, (++) mid, and (+++) high activity against acyl-homoserine lactone (AHL) and autoinducer-2 (AI-2).

Isolate	origin	best homologue based on 16S full length rRNA gene (Accession No., identity)	taxonomic classification				colony morphology	QQ activity	
			phylum	class	order	family		AHL	AI-2
1	*A. aurita* medusa Baltic Sea	*Pseudomonas stutzeri* (JX177727.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	yellowish-white, smeary	-	-
2	*A. aurita* medusa Baltic Sea	*Pseudomonas stutzeri* (JN228326.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	orange, round	++	-
3	*A. aurita* medusa Baltic Sea	*Pseudomonas segetis* (AY770691.2, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, round, smeary	-	-
4	*A. aurita* medusa Baltic Sea	*Pseudoalteromonas sp*. 191Z-13 (JX310231.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, smeary	+++	-
5	*A. aurita* medusa Baltic Sea	Uncultured bacterium clone ncd1928c11c1 (JF165581.1, 93%)	n.a.	n.a.	n.a.	n.a.	white with orange spots, smeary	+++	-
6	*A. aurita* medusa Baltic Sea	*Vibrio alginolyticus* (KP698605.1, 99%)	Proteobacteria	Gammaproteobacteria	Vibrionales	Vibrionaceae	white with orange spots, smeary	-	-
7	*A. aurita* medusa Baltic Sea	*Vibrio sp. S54CA* (KF188533.1, 98%)	Proteobacteria	Gammaproteobacteria	Vibrionales	Vibrionaceae	white, smeary	-	-
8	*A. aurita* medusa Baltic Sea	*Pseudomonas stutzeri* (JN228326.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	yellow, round	++	-
9	*A. aurita* medusa Baltic Sea	*Pseudomonas stutzeri* (JX177727.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	yellow, roundish	+	-
10	*A. aurita* medusa Baltic Sea	*Pseudomonas sp.* BJGMM-B54 (JQ716254.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	yellow, roundish	++	-
11	*A. aurita* medusa Baltic Sea	*Pseudomonas stutzeri* (JX177727.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	yellow, roundish	++	-
12	*A. aurita* medusa Baltic Sea	*Alteromonas genoviensis* (FJ040187.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	light yellow, round	++	-

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13	*A. aurita* medusa Baltic Sea	*Bacillus subtilis* (JX188065.1, 98%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	white, oval	-	-
14	*A. aurita* medusa Baltic Sea	*Microbacterium lacticum* strain 2833 (EU714346.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	white, smeary	-	-
15	*A. aurita* medusa Baltic Sea	*Sulfitobacter sp*. QD214-NF102 (KC689801.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	light orange in centre, round	+++	+
16	*A. aurita* medusa Baltic Sea	*Micrococcus sp*. 3455 (KP345948.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	white, round	-	-
17	*A. aurita* medusa Baltic Sea	*Bacillus cereus* (KF624695.1, 98%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	white, roundish	-	-
18	*A. aurita* medusa Baltic Sea husbandry	*Staphylococcus aureus* (CP011528.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	yellow, roundish-smeary	++	+
19	*A. aurita* medusa Baltic Sea husbandry	*Bacillus cereus* (DQ339684.1, 99%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	white, smeary	-	-
20	*A. aurita* medusa Baltic Sea husbandry	*Phaeobacter gallaeciensis* (NR_027609.1, 82%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white, smeary	+	-
21	*A. aurita* medusa Baltic Sea husbandry	*Cobetia amphilecti* (NR_113404.1, 99%)	Proteobacteria	Gammaproteobacteria	Halomonadaceae	Cobetia	white-orange, smeary	+	-
22	*A. aurita* medusa Baltic Sea husbandry	*Pseudolateromonas sp*. MACL07 (EF198247.1, 99%)	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	orange, round	++	-
23	*A. aurita* medusa Baltic Sea husbandry	*Sulfitobacter sp*. S7-80 (KU999998.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white, round	++	-
24	*A. aurita* medusa Baltic Sea husbandry	*Pseudoalteromonas sp*. MACL07 (EF198247.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	light orange, round	+	-
25	*A. aurita* medusa Baltic Sea husbandry	*Pseudoalteromonas issachenkonii* (JQ799065.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, round	++	-
73	*A. aurita* polyp	*Enterococcus casseliflavus*	Firmicutes	Bacilli	Lactobacillales	Enterococcaceae	white, roundish-smeary	+	-

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	Baltic Sea husbandry	(KJ571214.1, 99%)							
74	*A. aurita* polyp Baltic Sea husbandry	*Micrococcus sp.* 3723 (KP345967.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	light yellow, round	-	-
75	*A. aurita* polyp Baltic Sea husbandry	*Arthrobacter davidanieli* (AF099202.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	white, round	-	-
76	*A. aurita* polyp Baltic Sea husbandry	*Bacillus mycoides* (CP009692.1, 98%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	white, irregular	-	-
77	*A. aurita* polyp Baltic Sea husbandry	*Vibrio ordalii* (KC884626.1, 99%)	Proteobacteria	Gammaproteobacteria	Vibrionales	Vibrionaceae	white-brownish, smeary	++	-
78	*A. aurita* polyp Baltic Sea husbandry	*Sulfitobacter sp*. DG885 (AY258079.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white, smeary	++	-
79	*A. aurita* polyp Baltic Sea husbandry	*Olleya marilimosa* strain KMM6714 (KC247324.1, 99%)	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	orange, round	+++	+
80	*A. aurita* polyp Baltic Sea husbandry	*Vibrio anguillarum* (JX966409.1, 99%)	Proteobacteria	Gammaproteobacteria	Vibrionales	Vibrionaceae	white-brown, smeary	+++	-
81	*A. aurita* polyp Baltic Sea husbandry	*Vibrio anguillarum* (JX966409.1, 99%)	Proteobacteria	Gammaproteobacteria	Vibrionales	Vibrionaceae	yellow, round	+++	++
82	*A. aurita* polyp Baltic Sea husbandry	*Arthrobacter sp*. MB182 (JF706644.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	white, round	+	-
83	*A. aurita* polyp Baltic Sea husbandry	*Gordonia terrae* (KM113032.1, 97%)	Actinobacteria	Actinobacteria	Actinomycetales	Nocardiaceae	light orange, round	-	-
84	*A. aurita* polyp Baltic Sea husbandry	*Arthrobacter sp*. MB182 (JF706644.1, 100%)	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	white, round (tiny)	++	-
85	*A. aurita* polyp Baltic Sea husbandry	*Staphylococcus warneri* (LC035464.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	white-yellow, round	+	-

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86	*A. aurita* polyp Baltic Sea husbandry	Alpha proteobacterium C45 (AB302365.1, 96%)	Proteobacteria	Alphaproteobacteria	n.a.	n.a.	white, smeary	-	-
87	*A. aurita* polyp Baltic Sea husbandry	*Staphylococcus sp. C34* (JX482523.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	brownish, round	+	+
88	*A. aurita* polyp Baltic Sea husbandry	*Paracoccus sp*. UBF-P7 (JX239761.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white, smeary	-	-
89	*A. aurita* polyp Baltic Sea husbandry	Alpha proteobacterium C45 (AB302365.1, 99%)	Proteobacteria	Alphaproteobacteria	n.a.	n.a.	white, round	-	-
90	*A. aurita* polyp Baltic Sea husbandry	*Pseudomonas putida* (FJ577648.1, 96%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white-yellow, round	++	++
91	*A. aurita* polyp Baltic Sea husbandry	*Pseudoalteromonas issachenkonii* (JQ799065.1, 98%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white-brownish, smeary	+++	+
92	*A. aurita* polyp Baltic Sea husbandry	*Pseudomonas putida* (GU191929.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, round	++	-
93	*A. aurita* polyp Baltic Sea husbandry	*Pseudomonas sp. GA87* (AB934380.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, round with dent	++	-
94	*A. aurita* polyp Baltic Sea husbandry	*Pseudomonas monteilii* (KP056325.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	orange, roundish	++	-
95	*A. aurita* polyp North Sea husbandry	*Streptococcus infantis* (GU561389.1, 98%)	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	white, round	-	-
96	*A. aurita* polyp North Sea husbandry	*Enterococcus casseliflavus* (KJ571214.1, 99%)	Firmicutes	Bacilli	Lactobacillales	Enterococcaceae	white, round	+	-
97	*A. aurita* polyp North Sea husbandry	*Shewanella sp*. W3-18-1 (CP000503.1, 99%)	Proteobacteria	Betaproteobacteria	Alteromonadales	Oxalobacteraceae	yellowish, smeary	+	+

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98	*A. aurita* polyp North Sea husbandry	*Olleya marilimosa* strain KMM6714 (KC247324.1, 99%)	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	yellow/orange, smeary	-	-
99	*A. aurita* polyp North Sea husbandry	*Pseudoalteromonas issachenkonii* (JQ799065.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	light orange, round	++	+
100	*A. aurita* polyp North Sea husbandry	*Sulfitobacter sp*. DG885 (AY258079.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white-yellow, smeary	+++	-
101	*A. aurita* polyp North Sea husbandry	*Pseudoalteromonas issachenkonii* (JQ799065.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	very light orange, smeary	-	-
102	*A. aurita* polyp North Sea husbandry	*Alteromonas sp*. SN2 (KJ781946.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	white, brownish in center, round-smeary	+	-
103	*A. aurita* polyp North Sea husbandry	*Pseudoalteromonas ruthenica* (NR_025140.1, 98-99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	brownish, smeary	+++	-
104	*A. aurita* polyp North Sea husbandry	*Ruegeria mobilis* (HQ338148.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	light, orange, smeary	++	-
105	*A. aurita* polyp North Sea husbandry	*Shewanella basaltis* (KC534403.1, 99%)	Proteobacteria	Betaproteobacteria	Alteromonadales	Oxalobacteraceae	white-yellow, smeary	-	
106	*A. aurita* polyp North Sea husbandry	*Hymenobacter psychrophilus* (NR_117214.1, 98%)	Bacteroidetes	Cytophagia	Cytophagales	Hymenobacteraceae	orange-pink, round	-	-
107	*A. aurita* polyp North Sea husbandry	*Luteococcus japonicas* (NR_119351.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Propionibacteriaceae	orange, round, smeary	+	-
108	*A. aurita* polyp North Sea husbandry	*Chryseobacterium hominis* (JX100820.1, 98-99%)	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	white, round	+	-
109	*A. aurita* polyp North Sea husbandry	*Rhodococcus erythropolis* PR4 (CP011295.1, 100%)	Actinobacteria	Actinobacteria	Actinomycetales	Nocardiaceae	white, roundish-smeary	-	-

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110	*A. aurita* polyp North Sea husbandry	*Enterococcus casseliflavus* (KJ571214.1, 98-99%)	Firmicutes	Bacilli	Lactobacillales	Enterococcaceae	translucent, smeary	-	-
111	*A. aurita* polyp North Sea husbandry	*Brevibacterium frigoritolerans* (JF411310.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Brevibacteriaceae	white, round	+++	-
112	*A. aurita* polyp North Sea husbandry	*Rhodococcus sp*. B126 (KJ781946.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Nocardiaceae	white, smeary	++	+
113	*A. aurita* polyp North Sea husbandry	*Sulfitobacter sp*. 132Z-6 (JX310150.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white, smeary	-	-
114	*A. aurita* polyp North Atlantic husbandry	*Pseudomonas stutzeri* (HM137032.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white-yellow, round	++	-
115	*A. aurita* polyp North Atlantic husbandry	*Moraxella osloensis* (AB643593.1, 99%)	Proteobacteria	Gammaproteobacteria	Halobacteriales	Moraxellaceae	white, round	-	-
116	*A. aurita* polyp North Atlantic husbandry	*Enterococcus casseliflavus* (KJ571214.1, 99%)	Firmicutes	Bacilli	Lactobacillales	Enterococcaceae	white, round	-	-
117	*A. aurita* polyp North Atlantic husbandry	*Ruegeria mobilis* (HQ338132.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	pink, smeary	+++	-
118	*A. aurita* polyp North Atlantic husbandry	*Micrococcus sp*. 3723 (KP345967.1, 96%)	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	white, round	-	-
119	*A. aurita* polyp North Atlantic husbandry	*Pseudoalteromonas issachenkonii* (JQ799065.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	light orange, round	++	-
120	*A. aurita* polyp North Atlantic husbandry	*Pseudoalteromonas sp*. MACL07 (EF198247.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white-brownish, round	++	-
121	*A. aurita* polyp North Atlantic husbandry	*Olleya sp*. MOLA 14 (AM990790.1, 99%)	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	light orange, round	++	-
122	*A. aurita* polyp North	*Glaciecola sp*. KMM 6755	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	white, smeary	-	-

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	Atlantic husbandry	(KF273912.1, 99%)							
123	*A. aurita* polyp North Atlantic husbandry	*Luteococcus japonicus* (NR_119351.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Propionibacteriaceae	white, round	+	-
124	*A. aurita* polyp North Atlantic husbandry	*Staphylococcus epidermidis* (FJ030635.1, 97%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	white, smeary	-	-
125	*A. aurita* polyp North Atlantic husbandry	*Sulfitobacter sp*. DG885 (AY258079.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white, round	-	-
126	*A. aurita* polyp North Atlantic husbandry	*Sulfitobacter sp*. QD214-NF102 (KC689801.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white-orange, round	+++	-
127	*A. aurita* polyp North Atlantic husbandry	*Staphylococcus succinus subsp. casei* (NR_037053.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	orange, roundish	+++	-
128	*A. aurita* polyp North Atlantic husbandry	*Rhodococcus sp. B126* (KJ781946.1, 98%)	Actinobacteria	Actinobacteria	Actinomycetales	Nocardiaceae	white, orange, round-smeary	+++	-
129	*A. aurita* polyp North Atlantic husbandry	*Staphylococcus aureus* (CP011528.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	white-yellow, roundish	-	-
130	*A. aurita* polyp North Atlantic husbandry	*Pseudomonas pachastrellae* (EU603457.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, roundish	+	-
131	*A. aurita* polyp North Atlantic husbandry	*Rhodococcus sp*. FXJ8.222 (KM507704.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Nocardiaceae	translucent, round	+++	-
51	*M. leidyi* Baltic Sea	Uncultured bacterium clone nck64c11c1 (KF072560.1, 92%)	n.a.	n.a.	n.a.	n.a.	yellow, roundish, smeary	-	-
52	*M. leidyi* Baltic Sea	*Micrococcus endophyticus* (JQ659309.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	light yellow, round	-	-
53	*M. leidyi* Baltic Sea	*Alteromonas sp*. 2c3 (AJ294361.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	white, roundish-smeary	++	-
54	*M. leidyi* Baltic Sea	*Lacinutrix sp*. JR-M6 (KJ461692.1, 99%)	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	white-orange, round	++	-

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55	*M. leidyi* Baltic Sea	*Marinomonas hwangdonensis* (NR_109448.1, 98%)	Proteobacteria	Gammaproteobacteria	Oceanospirillales	Oceanospirillaceae	translucent, round	+++	-
56	*M. leidyi* Baltic Sea	*Colwellia sp*.BSs20120 (EU330346.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Colwelliaceae	light orange, round	-	-
57	*M. leidyi* Baltic Sea	*Olleya marilimosa* strain KMM6714 (KC247324.1, 99%)	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	translucent, round	+++	+
58	*M. leidyi* Baltic Sea	*Rhodococcus sp*. ZS342 (JX428878.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Nocardiaceae	orange, roundish-smeary	-	-
59	*M. leidyi* Baltic Sea	*Microbacterium sp.* CDR2P2B2 (KJ567128.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	white, round	-	-
60	*M. leidyi* Baltic Sea	*Alteromonas sp*. 2c3 (AJ294361.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	white, round, smeary	++	-
61	*M. leidyi* Baltic Sea	*Phaeocystidibacter luteus* (HQ434766.1, 99%)	Bacteroidetes	Flavobacteriia	Flavobacteriales	Cryomorphaceae	dark orange, oval	-	-
62	*M. leidyi* Baltic Sea	*Sagittula sp*. BG-9-E2 (KF560336.1, 89%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	yellowish, oval	-	-
63	*M. leidyi* Baltic Sea	*Microbacterium oxydans* (KP136285.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	white, round	-	-
213	*M. leidyi* Baltic Sea	*Vibrio sp*. (MF975618.1, 98%)	Proteobacteria	Gammaproteobacteria	Vibrionales	Vibrionaceae	yellowish, round	+++	+
215	*M. leidyi* Baltic Sea	*Pseudomonas sp.* (KM461109.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white-yellow, round	+	-
218	*M. leidyi* Baltic Sea	*Pseudoclavibacter sp*. (KY074321.1, 97%)	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	yellow, round	-	-
219	*M. leidyi* Baltic Sea	*Pseudoalteromonas tunicata* (KY319053.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	violet, round	+++	-
221	*M. leidyi* Baltic Sea	*Aeromonas salmonicida* (HG941669.1, 98%)	Proteobacteria	Gammaproteobacteria	Aeromonadales	Aeromonadaceae	translucent, round	++	-
222	*M. leidyi* Baltic Sea	*Marinomonas pontica* (NR_042965.1, 100%)	Proteobacteria	Gammaproteobacteria	Oceanospirillales	Oceanospirillaceae	translucent, round	+++	-
223	*M. leidyi* Baltic Sea	Uncultured *Alteromonas sp*. clone G9UC_PoM_0m_07 (KP076503.1, 98%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	white with black center, round	-	-
224	*M. leidyi* Baltic Sea	*Pseudoalteromonas sp.* (KY671155.1, 97%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, round	+++	+
225	*M. leidyi* Baltic Sea	Acinetobacter sp. (JX266367.1, 99%)	Proteobacteria	Gammaproteobacteria	Halobacteriales	Moraxellaceae	white, spreading	-	-

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228	*M. leidyi* Baltic Sea	*Shewanella sp*. (KX230028.1, 96%)	Proteobacteria	Betaproteobacteria	Alteromonadales	Oxalobacteraceae	yellow, round	++	++
229	*M. leidyi* Baltic Sea	*Shewanella sp*. (JQ867500.1, 99%)	Proteobacteria	Betaproteobacteria	Alteromonadales	Oxalobacteraceae	red, round	+++	+
232	*M. leidyi* Baltic Sea	*Pseudoalteromonas sp*. (JQ406678.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	orange, round	+	-
233	*M. leidyi* Baltic Sea	*Shewanella sp*. (KX531009.1, 99%)	Proteobacteria	Betaproteobacteria	Alteromonadales	Oxalobacteraceae	white, round	-	-
234	*M. leidyi* Baltic Sea	*Pseudoalteromonas sp.* (EU935585.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	black, round	+++	-
235	*M. leidyi* Baltic Sea	*Shewanella sp*. (KX531009.1, 99%)	Proteobacteria	Betaproteobacteria	Alteromonadales	Oxalobacteraceae	yellow, round	++	-
237	*M. leidyi* Baltic Sea	Shewanella sp. (JQ867500.1, 99%)	Proteobacteria	Betaproteobacteria	Alteromonadales	Oxalobacteraceae	red, round	-	-
240	*M. leidyi* Baltic Sea	*Pseudoalteromonas sp*. (HQ882787.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	yellow, round	+++	-
241	*M. leidyi* Baltic Sea	*Pseudoalteromonas sp.* (EU330361.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, round	-	-
242	*M. leidyi* Baltic Sea	Uncultured bacterium clone A3_91 (MF113934.1, 99%)	n.a.	n.a.	n.a.	n.a.	translucent, round	-	-
243	*M. leidyi* Baltic Sea	*Pseudoalteromonas tunicata* (KY319053.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	black, round	+	-
246	*M. leidyi* Baltic Sea	*Pseudomonas sp*. (HQ844525.1, 97%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white-yellow, spreading	+++	-
247	*M. leidyi* Baltic Sea	*Shewanella sp*. (JF825437.1, 98%)	Proteobacteria	Betaproteobacteria	Alteromonadales	Oxalobacteraceae	translucent-yellow, round	+++	-
248	*M. leidyi* Baltic Sea	Uncultured bacterium clone Woods-Hole_a2237 (KF798527.1, 98%)	n.a.	n.a.	n.a.	n.a.	white-yellow, round	-	-
249	*M. leidyi* Baltic Sea	*Pseudoalteromonas sp*. (KT583320.1, 97%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	black, round	++	-
250	*M. leidyi* Baltic Sea	*Pseudoalteromonas sp*. (FR821214.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	violet, round	+++	-
251	*M. leidyi* Baltic Sea	*Pseudoalteromonas tunicata* (KY319053.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, round	-	-
254	*M. leidyi* Baltic Sea	*Shewanella sp*. (KC247331.1, 99%)	Proteobacteria	Betaproteobacteria	Alteromonadales	Oxalobacteraceae	red, round	+++	-
255	*M. leidyi* Baltic Sea	*Pseudoclavibacter sp*. (KM199858.1, 97%)	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	light yellow, round	-	-

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256	*M. leidyi* Baltic Sea	*Pseudoalteromonas tunicata* (KY319053.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	yellow, round	+	-
260	*M. leidyi* Baltic Sea	*Shewanella sp*. (KX692892.1, 99%)	Proteobacteria	Betaproteobacteria	Alteromonadales	Oxalobacteraceae	white-red, round	+++	+
261	*M. leidyi* Baltic Sea	*Psychrobacter cryohalolentis* (KY405931.1, 98%)	Proteobacteria	Gammaproteobacteria	Halobacteriales	Moraxellaceae	white, spreading	-	-
262	*M. leidyi* Baltic Sea	*Marinomonas pontica* (NR_042965.1, 98%)	Proteobacteria	Gammaproteobacteria	Oceanospirillales	Oceanospirillaceae	translucent, round	+++	-
264	*M. leidyi* Baltic Sea	*Exiguobacterium acetylicum* (MG490164.1, 99%)	Firmicutes	Bacilli	Bacillales	Bacilli	orange, round	-	-
265	*M. leidyi* Baltic Sea	*Pseudomonas sp.* (KY907020.1, 98%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	yellow, round	+	-
269	*M. leidyi* Baltic Sea	*Phaeobacter daeponensis* (NR_044026.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	translucent-yellow, oval	-	-
270	*M. leidyi* Baltic Sea	*Bacillus sp*. (KF746902.1, 97%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	black, round	-	-
65	*M. leidyi* Baltic Sea husbandry	*Pseudoalteromonas atlantica* (KP645203.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, smeary	+	+
66	*M. leidyi* Baltic Sea husbandry	*Alteromonas genoviensis* (FJ040187.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	white, round	++	-
67	*M. leidyi* Baltic Sea husbandry	*Shewanella sp*. KMM 6721 (KC247331.1, 99%)	Proteobacteria	Betaproteobacteria	Alteromonadales	Oxalobacteraceae	translucent, round	+++	++
68	*M. leidyi* Baltic Sea husbandry	*Vibrio sp*. VibC-Oc-066 (KF577069.1, 99%)	Proteobacteria	Gammaproteobacteria	Vibrionales	Vibrionaceae	light orange, round	+++	+
69	*M. leidyi* Baltic Sea husbandry	*Rhodobacter sp*. W402 (KF268394.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	orange, round	-	-
70	*M. leidyi* Baltic Sea husbandry	*Vibrio sp*. VibC-Oc-066 (KF577069.1, 99%)	Proteobacteria	Gammaproteobacteria	Vibrionales	Vibrionaceae	white, orange in center, round	++	-
71	*M. leidyi* Baltic Sea husbandry	*Ochrobactrum sp*. P1(2013) (KF987808.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhizobiales	Brucellaceae	white, round	-	-
72	*M. leidyi* Baltic Sea husbandry	*Microbacterium sp.* MN2-1 (JQ396523.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	yellowish-white, round	-	-
217	*M. leidyi* Baltic Sea husbandry	*Hydrogenophaga taeniospiralis* (AB795550.1, 99%)	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	translucent-red, round	-	-

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226	*M. leidyi* Baltic Sea husbandry	*Pseudomonas sp.* (LC272923.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	light yellow, round	++	-
227	*M. leidyi* Baltic Sea husbandry	*Staphylococcus sp*. (MG162674.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	yellow-red, round	-	-
239	*M. leidyi* Baltic Sea husbandry	*Pseudoalteromonas sp*. (JX310130.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white-yellow, round	+	-
244	*M. leidyi* Baltic Sea husbandry	*Thalassomonas sp*. (KC247368.1, 97%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Colwelliaceae	translucent-yellow, round	-	-
257	*M. leidyi* Baltic Sea husbandry	*Chryseobacterium sp*. (HQ911369.1, 97%)	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	yellow-red, round	++	-
267	*M. leidyi* Baltic Sea husbandry	*Alteromonas sp.* (KX989422.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	white, spreading	+	-
214	Ambient water Baltic Sea	*Serratia plymuthica* (KR611045.1, 99%)	Proteobacteria	Gammaproteobacteria	Enterobacteriales	Yersiniaceae	red, round	+++	-
230	Ambient water Baltic Sea	*Pseudoalteromonas sp*. (KM979153.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, round	+++	-
231	Ambient water Baltic Sea	*Pseudomonas sp*. (JF766700.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, spreading	-	-
253	Ambient water Baltic Sea	*Fictibacillus sp*. (KX033807.1, 98%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	translucent yellow, round	-	-
259	Ambient water Baltic Sea	*Pseudoalteromonas sp*. (KF188488.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	red, round	++	-
266	Ambient water Baltic Sea	*Pseudoalteromonas sp.* (FR821212.1, 97%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	translucent yellow, round	+	-
132	Artificial Seawater 18 PSU	*Pseudomonas anguilliseptica* (JX177685.1, 98-99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	light orange, smeary	-	-
133	Artificial Seawater 18 PSU	*Pseudomonas sp.* MBEF06 (AB733556.1, 97%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	light orange, round	-	-
134	Artificial Seawater 18 PSU	*Pseudomonas anguilliseptica* (JX177685.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	light yellow, round	+++	-
135	Artificial Seawater 18 PSU	*Moraxella sp.* CHZYR52 (AB905490.1, 99%)	Proteobacteria	Gammaproteobacteria	Halobacteriales	Moraxellaceae	white, round	++	-

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136	Artificial Seawater 18 PSU	*Pseudomonas anguilliseptica* (JX177685.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white-yellowish, round	-	-
137	Artificial Seawater 18 PSU	*Sulfitobacter sp*. DG885 (AY258079.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white, smeary	+	+
138	Artificial Seawater 18 PSU	*Celeribacter baekdonensis* (NR_117908.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white, smeary	-	-
139	Artificial Seawater 18 PSU	*Alteromonas sp*. JAM-GA15 (AB526338.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	orange, round	++	-
140	Artificial Seawater 18 PSU	*Alteromonas sp*. SN2 (CP002339.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	white, smeary	++	-
141	Artificial Seawater 18 PSU	*Pseudomonas cuatrocienegasensis* (JN644592.1, 98%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	yellow, round	-	-
142	Artificial Seawater 18 PSU	*Pseudomonas sp*. MBEF06 (AB733556.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	orange, smeary	+	-
143	Artificial Seawater 18 PSU	*Rhodococcus yunnanensis* (JN638050.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Nocardiaceae	white, round	-	-
145	Artificial Seawater 18 PSU	*Staphylococcus warneri* (LC035464.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	white, round	++	-
146	Artificial Seawater 18 PSU	*Staphylococcus pasteuri* (KP267845.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	white, round	-	-
147	Artificial Seawater 18 PSU	*Leisingera sp*. MA2-16 (KJ889016.1, 98%)	Proteobacteria	alphaproteobacteria	rhodobacterales	rhodobacteraceae	white, round	-	-
148	Artificial Seawater 18 PSU	*Alteromonas sp*. SN2 (CP002339.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	white, smeary	+	-
149	Artificial Seawater 18 PSU	*Staphylococcus saprophyticus* (KM095954.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	white, smeary	-	-
150	Artificial Seawater 18 PSU	*Staphylococcus warneri* (LC035464.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	white, round	-	-
151	Artificial Seawater 18 PSU	*Staphylococcus warneri* (LC035464.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	white line, round	-	-
152	Artificial Seawater 18 PSU	*Staphylococcus sp*. DVRSG-2 (KF779128.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	white line, smeary	-	-

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153	Artificial Seawater 18 PSU	*Glaciecola sp.*DHVB6 (FJ848889.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	white, round	-	-
154	Artificial Seawater 18 PSU	*Alteromonas sp*. EM12a (HG004180.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	white, smeary	++	-
155	Artificial Seawater 18 PSU	*Marinobacter sp*. NP-1383C-30R (KJ914666.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	white-yellowish, round	+++	-
156	Artificial Seawater 18 PSU	*Micrococcus sp*. 3723 (KP345967.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	yellow, round	-	-
157	Artificial Seawater 18 PSU	*Corynebacterium sp*. NML96-0244 (GU238410.1, 99%)	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	white, round	-	-
158	Artificial Seawater 18 PSU	*Pseudomonas sp.* MT-1 (AP014655.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	light yellow, smeary	+	-
159	Artificial Seawater 18 PSU	*Pseudomonas sp*. MBEF06 (AB733556.1, 98-99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	light yellow, smeary	+	-
160	Artificial Seawater 18 PSU	*Staphylococcus aureus* (CP011528.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	yellow, round	-	-
161	Artificial Seawater 18 PSU	*Pseudomonas sp*. MBEF06 (AB733556.1, 98-99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	yellow-orange, smeary	-	-
162	Artificial Seawater 18 PSU	*Staphylococcus aureus* (CP011528.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	orange, smeary	-	-
163	Artificial Seawater 18 PSU	*Alteromonas sp*. JAM-GA15 (AB526338.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	orange, round	+++	-
164	Artificial Seawater 18 PSU	*Celeribacter sp*. CY411 (KP201135.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white, round	-	-
165	Artificial Seawater 18 PSU	*Celeribacter baekdonensis* (NR_117908.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white with light yellow center, smeary	-	-
166	Artificial Seawater 18 PSU	*Celeribacter baekdonensis* (NR_117908.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white, smeary	-	-
167	Artificial Seawater 18 PSU	*Pseudoalteromonas sp*. BSi20316 (DQ492738.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white-yellowish, round	++	-
168	Artificial Seawater 18 PSU	*Salinibacterium sp*. ZS4-2 (FJ196007.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	yellow, round	-	-

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169	Artificial Seawater 18 PSU	*Rhodococcus fascians* (FJ999590.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Nocardiaceae	orange, roundish	-	-
170	Artificial Seawater 18 PSU	*Pseudomonas stutzeri* strain QT 34 (HQ848122.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	yellow, round	+++	-
171	Artificial Seawater 18 PSU	*Pseudomonas sp*. MBEF06 (AB733556.1, 98-99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	yellowish, round	++	-
172	Artificial Seawater 30 PSU	*Bacillus sp.* O-NR1 (JN613469.1, 99%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	white, round	-	-
173	Artificial Seawater 30 PSU	*Salinibacterium amurskyense* strain y358 (KF306352.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	light orange-white, round	-	-
174	Artificial Seawater 30 PSU	*Staphylococcus aureus subsp. aureus* SA268 (CP006630.1, 93%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	white, round	-	-
175	Artificial Seawater 30 PSU	*Micrococcus sp.* 3723 (KP345967.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	orange, roundish-smeary	-	-
176	Artificial Seawater 30 PSU	*Halomonas boliviensis* (JX262399.1, 99%)	Proteobacteria	Gammaproteobacteria	Oceanospirillales	Halomonadaceae	light orange, round	-	-
177	Artificial Seawater 30 PSU	*Maribacter sp*. H24 (FJ903191.1, 98)	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	yellowish, smeary	+	-
178	Artificial Seawater 30 PSU	*Salinibacterium amurskyense* (KF306352.1, 98-99%)	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	yellowish, round	-	-
179	Artificial Seawater 30 PSU	*Bacillus sp.* Aza15 (JQ977243.1, 99%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	white, round	-	-
180	Artificial Seawater 30 PSU	*Staphylococcus aureus* (CP011528.1, 99%)	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	white, brownish center, round	+++	-
181	Artificial Seawater 30 PSU	*Chryseobacterium sp*. WW-RP5 (KJ958497.1, 99%)	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	light orange, smeary	-	-
182	Artificial Seawater 30 PSU	*Microbacterium sp*. Cai-b5 (JX997907.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	pink, round	-	-
184	Artificial Seawater 30 PSU	*Bacillus simplex* (KJ161409.1, 96%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	white, brownish center, round	-	-
185	Artificial Seawater	*Alteromonas macleodii* (KP074899.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	orange, round	+++	-

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	30 PSU								
186	Artificial Seawater 30 PSU	*Alteromonas sp*. SCS1700m-1 (JX533655.1, 99%)	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	brownish, round	+++	-
187	Artificial Seawater 30 PSU	*Bacillus sp*. 7B-230 (KF441670.1, 99%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	pink, smeary	-	-
188	Artificial Seawater 30 PSU	*Sulfitobacter pseudonitzschiae* strain H3 (KF006321.2, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white, smeary	+++	-
189	Artificial Seawater 30 PSU	*Bacillus vietnamensis* (KF933713.1, 100%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	pink, round	-	-
190	Artificial Seawater 30 PSU	*Pseudoalteromonas sp.* 191Z-13 (JX310231.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	light-orange, round	-	-
191	Artificial Seawater 30 PSU	*Celeribacter sp*. CY411 (KP201135.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white, round	-	-
192	Artificial Seawater 30 PSU	*Microbacterium sp*. JL1103 (DQ985063.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	light orange, smeary	-	-
193	Artificial Seawater 30 PSU	*Brevibacterium frigoritolerans* (KJ767331.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Brevibacteriaceae	white, roundish	++	-
194	Artificial Seawater 30 PSU	*Cobetia amphilecti* (KP204120.1, 85%)	Proteobacteria	Gammaproteobacteria	Halomonadaceae	Cobetia	pink, round	+	-
195	Artificial Seawater 30 PSU	*Bacillus sp.* T1T (AM983464.1, 99%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	translucent, round	-	-
196	Artificial Seawater 30 PSU	*Pseudomonas syringae pv. pisi* (KP211411.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	yellow, round	+++	+
197	Artificial Seawater 30 PSU	*Pseudomonas pachastrellae* (KM460937.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, round	-	-
199	Artificial Seawater 30 PSU	*Maribacter sp*. H24 (FJ903191.1, 93)	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	white, round, smeary in high density	-	-
200	Artificial Seawater 30 PSU	*Pseudoalteromonas sp*. AB293f (FR821202.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	grey-white, round	++	-
201	Artificial Seawater 30 PSU	*Cobetia amphilecti* (NR_113404.1, 99%)	Proteobacteria	Gammaproteobacteria	Halomonadaceae	Cobetia	white, round	++	-

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202	Artificial Seawater 30 PSU	*Maribacter sp.* H24 (FJ903191.1, 99%)	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	white, round, small	-	-
203	Artificial Seawater 30 PSU	*Pseudoalteromonas espejiana* (KP204135.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, round, smeary in high density	+++	-
204	Artificial Seawater 30 PSU	*Sulfitobacter sp*. QD214-NF102 (KC689801.1, 99%)	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	white, round, smeary in high density	-	-
205	Artificial Seawater 30 PSU	*Pseudomonas sp*. MBTN3D1-a3 (JN975148.1, 89%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white, round	-	-
206	Artificial Seawater 30 PSU	*Bacillus mycoides* (CP009692.1, 99%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	white-orange/brownish, smeary	-	-
207	Artificial Seawater 30 PSU	*Bacillus hwajinpoensis* (KJ009474.1, 99%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	white-orange, smeary	-	-
208	Artificial Seawater 30 PSU	*Pseudoalteromonas issachenkonii* (JQ799065.1, 99%)	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	white-yellowish, smeary	+	-
209	Artificial Seawater 30 PSU	*Brevibacterium frigoritolerans* (KF475857.1, 99%)	Actinobacteria	Actinobacteria	Actinomycetales	Brevibacteriaceae	white, roundish	-	-
210	Artificial Seawater 30 PSU	*Bacillus simplex* (KM817245.1, 99%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	white, smeary	++	-
212	Artificial Seawater 30 PSU	*Fictibacillus phosphorivorans* (NR_118455.1, 99%)	Firmicutes	Bacilli	Bacillales	Bacillaceae	translucent, smeary	-	-

Supplement

Sequence data of identified putative QQ-ORFs of fosmid clone 5/E6 originating from the genomic library of isolate 91 (*Pseudoalteromonas issachenkonii*)

I. 91_5/E6_ORF1

Best homologue (based on aa sequence)	Protein	Accession No.	Identity
Pseudoalteromonas sp. TB41	Integrase	WP_024602773.1	98 %

>ORF1_nucleotide sequence

ATGAACTTTACAGACAAATCAATTAAGGCACTTAAGGCCAAAGAAAAACGTTACGTATTAACCGAGTCAGGTAACTAT
GGGGAAGGGCGTTTACAAATAAGGGTGAGTGAATCAGGCGCTAAAACGTTTCGGGTTCAGTATCACATAAACGGTAAG
CGCAAAGTAATTGGTCTTGGTAATTATCCTACCGTTGATCTTAAAAAAGCACGTAGTAAACATGCAAAAATAGCAGTC
TTATTAAGTGACAATATCGACCCGCAAGAGCATCAATTAGAAGCCCAAAAAATAGAGTTCGAATCATCAGCAAAGCGT
ACCATGTTACAAATGCTCGCTGACTTTAATGTATTCATAAGTACACGCTGGGCAGAGTCAACAATAGACCGAACTGAA
AAACTCATTAAAAGAAACATCACCCCGTTTATAAAACCCGAATTAATGCCCGACGAGTTCACCATAGATATGGCCCGC
GACATTATTTACCGTGTTTATAATCGTGGCGCAAAAGAACAAGCGCGACTAGTTCGCAGCATACTAATGAGCATATTA
AAATTTGCTATAGATTTTGATAACTCACCAGAGCAATACAAAAAGCCAAACCTATACGACATAAAAACAAATTTCATC
AGAGACATTAACTTTGAAACGCCAAAAAACAAAGGTGAACGCTGGTTAAGCGAGGCTGAACTAAAAAAAGTATGGAAT
GCAGACGACCTACCTTATTACACCCACCAATACATAAAACTGGCATTATTACTTGGTGGTCAGCGAGTAAATGAGGTT
TACGGCTCATACGTAAGTGACTTTGATTTAGAAAATAAAACTTTCACTATCCCCGCAAATCGTATCAAAGTACAACAA
CGGGGCGATCACATAGTGCCATTATGCGAAACCGCAATACCAATCATCCAAGAGCTAATTCAACAAGCAGGTAAAGCT
GGTCAAATGTTCCCGCATCGCGACAACCCAACAGCCACCGCCCATGTATCAACACTTCGAATGGCAATATTACGATGG
TGCGAAAAAAACAAAGTGCCAAACTTTAATCCCCGTGATCTACGCAGAACGTGTAAAACACTCATGGGCAAAGCAGGC
ATAGATAAAATAAACCGCGACATACTGCAGCAACACAACAAGTTTGATGTATCAAGTGTGCATTACGACAGATACGAC
TATATGAAAGAAAAACGCCAAAGCATTGAGGTGTGGGAAACTGCTTATGAATTGTGCCATAAAGTAAGCTTAGTATTG
TAA

>ORF1_amino acid sequence

MNFTDKSIKALKAKEKRYVLTESGNYGEGRLQIRVSESGAKTFRVQYHINGKRKVIGLGNYPTVDLKKARS
KHAKIAVLLSDNIDPQEHQLEAQKIEFESSAKRTMLQMLADFNVFISTRWAESTIDRTEKLIKRNITPFIK
PELMPDEFTIDMARDIIYRVYNRGAKEQARLVRSILMSILKFAIDFDNSPEQYKKPNLYDIKTNFIRDINF
ETPKNKGERWLSEAELKKVWNADDLPYYTHQYIKLALLLGGQRVNEVYGSYVSDFDLENKTFTIPANRIKV
QQRGDHIVPLCETAIPIIQELIQQAGKAGQMFPHRDNPTATAHVSTLRMAILRWCEKNKVPNFNPRDLRRT
CKTLMGKAGIDKINRDILQQHNKFDVSSVHYDRYDYMKEKRQSIEVWETAYELCHKVSLVL

II. 91_5/E6_ORF2

Best homologue (based on aa sequence)	Protein	Accession No.	Identity
Pseudoalteromonas	Cation/H+	WP_096038305.1	98 %

teradonis	antiporter		

>ORF2_nucleotide sequence

ATGCGTGGTACCGACACTTGGTTTTTATTAGTCGGTTTGACGGGTTTAACTACACTTTTATTTGGCGCTTACATCGCG
CTATTCAAACATGATTTAAAAGGCTTATTAGCCTATTCAACAATTAGTCATTTAGGCCTAATTACTCTATTACTCGGC
CTAGACACACAACTTGCAACCGTAGCCGCTATTTTTCATATTATTAACCATGCTACGTTTAAAGCGTCGTTATTTATG
GCCACGGGTATTATTGACCATGAAACCGGCACGCGTGATATGCGCAAACTCAATGGCATGTGGCGCTACTTACCTTAT
ACGGCCACATTAGCGATGGTGGCCGCTGCCGCTATGGCGGGTGTACCGCTATTAAATGGTTTCTTATCTAAAGAAATG
TTTTTTGCTGAAACACTGCATCAGCAAGTACTTGGCTCTATGTCGTGGTTAATTCCTGTGCTGGCAACCGTTGCAGGT
GCGCTGTCGGTAGCGTACTCATCTCGCTTTATTCATGACGTGTTCTTTAATGGTGAACCGATAGACTTACCACGCACC
CCTCATGAGGCGCCACGTTATATGCGTGTGCCTATCGAAATTTTAGTGGTGCTATGTATTTTAGTGGGTATTTTTCCG
CACTTTGCAGTAGATGGTATTTTATCGGCTGCCTCATTGGCCGTACTTGGCCAAGCTATGCCTGAGTACAAGCTAACT
ATTTGGCACGGTTTCAATTTACCTCTACTTATGAGTGGTATGGCGGTGATTGGTGGTTTATTTATTTACGTTAATCGT
AAGTACTTGTTCCAGTTTCAGGCGTCGTTACCTCCTTTTAACGCTAAAAAAATCTTCGAGCGTTTTTTAGCGGTTGTG
GTTAATTGGTGTCAAAACAAAATCCAATCAAACAGAAAATGGCTCATTACAACGCTATGTATTTATTATGTTAGGTGT
TGTATTGCTTGCCTCAGGTTGGCCATTATTTGA

>ORF2_amino acid sequence

MRGTDTWFLLVGLTGLTTLLFGAYIALFKHDLKGLLAYSTISHLGLITLLLGLDTQLATVAAIFHIINHATFKASLFM
ATGIIDHETGTRDMRKLNGMWRYLPYTATLAMVAAAAMAGVPLLNGFLSKEMFFAETLHQQVLGSMSWLIPVLATVAG
ALSVAYSSRFIHDVFFNGEPIDLPRTPHEAPRYMRVPIEILVVLCILVGIFPHFAVDGILSAASLAVLGQAMPEYKLT
IWHGFNLPLLMSGMAVIGGLFIYVNRKYLFQFQASLPPFNAKKIFERFLAVVVNWCQNKIQSNRKWLITTLCIYYVRC
CIACLRLAII

III. 91_5/E6_ORF3

Best homologue (based on aa sequence)	Protein	Accession No.	Identity
Pseudoalteromonas sp. DSM 26666	Cation/H+ antiporter	WP_09049398.1	100 %

>ORF2_nucleotide sequence

ATGCACGGCGGCGGTAAACCAAAAACACGTGCAGCACTGCATTACGTTATTTTAAACTTGGTTGGCTCAAGTGTATTT
TTAATCGGCTTAGGTATTTTATATGGGGTATTGGGTACCCTAAACATTGCTGATATGGCTAATAAAGTACCGCAGTTA
ACTGGTGATGATGTTTATTTAGCTAAAGCGGGCGGGTTACTATTGCTTGTAGTATTTGCCCTTAAAAGTGCACTATTA
CCACTGCATTTATGGCTCCCAAATGCCTATTCAAGTGCGACACCTGTGGTTGCTGCATTATTCGCGATTATGACCAAA
GTAGGTGTTTACGCCACTTTACGCGTATATACAGTGGTATTTGGTGAGCAAGCCGGTGAACTTGAGCATATGGCGCAG
TCTTGGCTATGGGCGTTGGCCATTGCTACTATAGTGATTGGGGCAATCGGGGTGTTGGCAGCACAAGATTTACGTAAG
CTTACCGCAAACTTAGTACTGGTTTCTGTGGGTACTTTAGTGGCACTGGTTGCACTTCAAAATATAAACGCCACAGCT
GCACTATTGTATTATTTGGTGCACTCAACGTTAGTGACTGCAGCACTATTTTTACTGGCTGATTTAATTGCAACTCAG
CGAGGTAAAGCCGGCGACAGATTAGTTGGCGGACGCGCAGTTAAACAACCATTCTTGTTGGGAGCGTGTTTTATTATC
GCTGGACTAACCGTCATAGGTATGCCGCCACTTTCAGGTTTTGTAGGTAAAATTTGGATTTTAAAAACCACCTTAAAC
AGTGAGCAAGCACTGGTATTTTGGCCTGTTTACTTAATTATGAGCTTAGCGTTAATTGTTGCTATATCACGTGCAGGC
ACGAGTTTGTTTTGGGAGCATAAAGACAAAGGCGGTGAGGCTGGTGATGTTGCTAATGCACATCCGTTGCAAGTTATC

Supplement

GTACTTGTTGGCCTGCTCACAAGCTCAATACTGTTGGTTGTTTTTGGTGATTTGGCAACGCAATATGCACTTGAAACA
GCAACACAACTTCATGATATTAGTGGTGGTATTAATGCGGTACTCAAGGGAGGTCTGTAA

>ORF3_amino acid sequence

MHGGGKPKTRAALHYVILNLVGSSVFLIGLGILYGVLGTLNIADMANKVPQLTGDDVYLAKAGGLLLLVVFALKSALL
PLHLWLPNAYSSATPVVAALFAIMTKVGVYATLRVYTVVFGEQAGELEHMAQSWLWALAIATIVIGAIGVLAAQDLRK
LTANLVLVSVGTLVALVALQNINATAALLYYLVHSTLVTAALFLLADLIATQRGKAGDRLVGGRAVKQPFLLGACFII
AGLTVIGMPPLSGFVGKIWILKTTLNSEQALVFWPVYLIMSLALIVAISRAGTSLFWEHKDKGGEAGDVANAHPLQVI
VLVGLLTSSILLVVFGDLATQYALETATQLHDISGGINAVLKGGL