

Table S1 (supplementary file). List of the clones isolated with indication of their GenBank accession number, their closest hit with its accession number and percentage of identification.

GenBank ACCESSION number	Isolate Clone	abundance	Closest Hit	Accession No.	ID (%)
OQ753781	Clone G10	2	<i>Vibrio</i> sp. BC-R3 clone 279.3	DQ357806	96.12
OQ753783	clone H06	2	<i>Glaciecola</i> sp. ANT9133	AY167283	83.75
OQ753792	clone G08	6	<i>Glaciecola</i> sp. ANT9133	AY167283	91.87
OQ753776	clone H02	45	<i>Pseudoalteromonas paragorgicola</i>	LN624602	97.75
OQ753822	clone C05	4	<i>Amphritea japonica</i> ATCC BAA-1530 strain JAMM 1866	NR_041616	84.87
OQ753779	clone B03	2	Uncultured bacterium clone F9P1210_S_I09	HQ671881	94.62
OQ753801	clone D04	2	Uncultured bacterium clone 1C226904	EU799322	89.62
OQ753821	clone A08	2	Uncultured bacterium clone ARKDMS-58	AF468261	89.25
OQ753775	clone E09	9	<i>Psychrobacter immobilis</i> strain ATCC 43116	U393999	94.12
OQ753820	clone D07	2	<i>Congregibacter</i> sp. strain IMCC43200	OP672399	95.25
OQ753788	clone A03	2	<i>Zhongshania aliphaticivorans</i> strain SM-2	CP014544	95.75
OQ753784	clone E03	2	Uncultured marine bacterium clone SHTA461	GU235499	89.62
OQ753818	clone H04	2	Uncultured marine bacterium clone SHTA461	GU235499	81.25
OQ753785	clone A01	6	uncultured marine bacterium clone 16_08_02E10	FR684711	96.12
OQ753796	clone G04	2	uncultured marine bacterium clone 16_03_05B08	FR684239	93.41
OQ753809	clone A05	4	Uncultured gamma proteobacterium clone VHS-B5-70	DQ395044	92.87
OQ753800	clone F07	2	uncultured marine bacterium clone 16_02_04C08	FR683722	83.75
OQ753798	clone F08	2	uncultured marine bacterium clone 16_02_04C08	FR683722	81.25
OQ753799	clone H08	2	uncultured marine bacterium clone 16_02_04C08	FR683722	93.75
OQ753794	clone G02	2	Uncultured marine bacterium clone SPOTSAPR01_5m19	DQ009364	98.37
OQ753808	clone D01	2	Bacterium SH5-11	JQ269263	91.87
OQ753777	clone A09	6	Bacterium SH5-11	JQ269263	91.43
OQ753793	clone G07	4	Bacterium SH5-11	JQ269263	90.0
OQ753812	clone C04	2	Bacterium SH5-11	JQ269263	86.25
OQ753815	clone B06	4	Bacterium SH5-11	JQ269263	91.25
OQ753811	clone C08	2	Uncultured bacterium clone S11-93	EU287276	96.52
OQ753806	clone D08	2	Bacterium SH5-11	JQ269263	80.31
OQ753816	clone B06	2	Bacterium SH5-11	JQ269263	97.5
OQ753786	clone H01	20	Uncultured bacterium clone ARKIA-123	AF468294	92.17
OQ753814	clone C01	2	Uncultured bacterium clone S11-93	EU287276	96.08
OQ753799	clone H03	2	Uncultured gamma proteobacterium clone HMMVCen-12	AJ704665	92.61
OQ753805	clone A01	2	Uncultured bacterium clone F9P41300_J14	HQ673471	96.08
OQ753778	clone D11	2	<i>Sulfitobacter</i> sp. AECF-21b	JQ618837	92.60
OQ753803	clone E02	4	Uncultured bacterium clone D6DMBB08	HQ216251	98.60
OQ753802	clone E04	4	Uncultured bacterium clone D6DMAD12	HQ216313	95.90
OQ753795	clone G03	2	uncultured marine bacterium clone 16_04_02G11	FR685098	94.37
OQ753813	clone C03	2	Uncultured bacterium clone 3C003281	EU801902	93.25
OQ753787	clone F04	2	Uncultured bacterium clone 1C227513	EU799851	97.18
OQ753810	clone C09	2	<i>Flavobacterium frigidarium</i> isolate S3-9	AY771722	98.12
OQ753817	clone B02	4	Uncultured bacterium clone 2L2SGXO601	FJ469304	98.05
OQ753782	clone C10	2	<i>Polaribacter</i> sp. W-2	DQ923436	98.12
OQ753804	clone D05	4	<i>Polaribacter sejongensis</i> strain KOPRI 21160	HQ853596	90.5
OQ753807	clone D03	4	Uncultured bacterium clone B-185	JQ712124	95.62
OQ753789	clone G01	2	Uncultured bacterium clone Nit5Au0613_729	FJ628329	82.5
OQ753823	clone A02	2	Uncultured Chlamydiales bacterium clone P-5	AF364565	91.87
OQ753780	clone G11	2	<i>Leucobacter komagatae</i> strain Z_S_TSA 12	KC337249	97.31
OQ753797	clone E07	2	uncultured marine bacterium clone 16_07_00D04	FR683981	96.25