

**Supplementary Table S1.** List of the analyzed bacterial taxa harboring Na<sup>+</sup>-NQR complex.

Group	Species	Habitat	Na <sup>+</sup> -NQR subunits GI numbers (NCBI)					
			NqrA	NqrB	NqrF	NqrC	NqrD	NqrE
α-proteobacteria-Rhodobacterales	<i>Pseudovibrio</i> sp. JE062	FL M	254473854	254473859	254473891	254473895	254473912	254473907
α-proteobacteria-Rhodobacterales	<i>Maritimibacter alkaliphilus</i> str. HTCC2654	FL M	84666304	84666303	84666299	84666302	84666301	84666300
α-proteobacteria-Rhodobacterales	<i>Oceanicola</i> sp. S124	FL M	372278659	372278658	372278654	372278657	372278656	372278655
α-proteobacteria-Rhodobacterales	<i>Rueseria</i> sp. TW15	FL M	346993341	346993342	346993346	346993343	346993344	346993345
α-proteobacteria-Rhodobacterales	<i>Roseobacter</i> sp. MED193	FL M	86138122	86138121	86138117	86138120	86138119	86138118
α-proteobacteria-Rhodobacterales	<i>Silicibacter luscuscaerulensis</i> ITI-1157	FL non-M Halo	260430731	260430730	260430726	260430729	260430728	260430727
β-proteobacteria-Methylotrophiales	<i>Methylophilales bacterium</i> HTCC2181	FL M	118595098	118595097	118595093	118595095	118595096	118595094
β-proteobacteria-Rhodocyclales	<i>Thaera</i> sp. MZ1T	FL non-M	217969242	217969243	217969247	217969244	217969245	217969246
β-proteobacteria-Neisseriales	<i>Neisseria gonorrhoeae</i> PID18	H Path	268601858	268601859	268601863	268601860	268601861	268601862
β-proteobacteria-Neisseriales	<i>Neisseria sicca</i> ATCC 29256	H mic	255065498	255065499	255065503	255065500	255065501	255065502
β-proteobacteria-Neisseriales	<i>Neisseria gonorrhoeae</i> FA 1090	H Path	59801757	59801758	59801762	59801759	59801760	59801761
δ-proteobacteria-Desulfobacterales-Desulfobacteraceae	<i>Desulfobacter postgatei</i> Za9	FL M	357036027	357036026	357036022	389578491	389578492	389578493
δ-proteobacteria-Desulfobacterales-Desulfobacteraceae	<i>Desulfobacterium autotrophicum</i> HRM2	FL M	224367807	224367808	224367812	223690525	223690526	223690527
δ-proteobacteria-Desulfobacterales-Desulfobacteraceae	<i>Desulfobacula toluolica</i> Tol2	FL M	408420322	408420321	408420317	408420320	408420318	408420319
δ-proteobacteria-Desulfobacterales-Desulfobacteraceae	<i>Desulfotignum phosphitoidans</i> DSM 13687	FL M	476533602	476533603	476533607	476533604	476533605	476533606
δ-proteobacteria-Desulfobacterales-Desulfobacteraceae	<i>Desulfococcus oleovorans</i> Hxd3	FL non-M Halo	158522547	158522548	158522552	158522549	158522550	158522551
δ-proteobacteria-Desulfobacterales-Desulfobacteraceae	<i>Desulfotolla psychrophila</i> L5v54	FL M	51245654	51245655	51245659	51245656	51245657	51245658
δ-proteobacteria-Desulfobacterales-Desulfobulbaceae	<i>Desulfurivibrio alkalicophilus</i> AHT2	FL non-M Halo	297568031	297568032	297568036	297568033	297568034	297568035
δ-proteobacteria-unclassified	<i>delta proteobacterium</i> MLMS-1	FL non-M	94267357	94267358	94264303	94267359	94267360	94267361
γ-proteobacteria-Aeromonadales	<i>Aeromonas caviae</i> Ac98	H Path	334703564	334703565	334703569	334703566	334703567	334703568
γ-proteobacteria-Aeromonadales	<i>Aeromonas veronii</i> AMC34	FL non-M, but H/A Path	423205572	423205571	423205567	423205570	423205569	423205568
γ-proteobacteria-Alteromonadales	<i>Alteromonas macleodii</i> str. 'Black Sea 11	FL M	407701426	407701425	407701421	407701423	407701424	407701422
γ-proteobacteria-Alteromonadales	<i>Marinobacter aquaeolei</i> VT8	FL M	120554848	120554847	120554843	120554846	120554845	120554844
γ-proteobacteria-Alteromonadales	<i>Colwellia psychrerythraea</i> 34H	FL M	71279370	71279883	71281144	71278488	71282119	71282541
γ-proteobacteria-Alteromonadales	<i>Ferrimonas balearica</i> DSM 9799	M	308048613	308048614	308048618	308048615	308048616	308048617
γ-proteobacteria-Alteromonadales	<i>Glaciecola mesophila</i> KMM 241	FL M	410626983	410626985	410626989	410626986	410626987	410626988
γ-proteobacteria-Alteromonadales	<i>Idiomarina loihiensis</i> L2TR	FL M Halo	56460158	56460157	56460153	56460156	56460155	56460154
γ-proteobacteria-Alteromonadales	<i>Marinobacter algicola</i> DG893	Int/Cell/Protist	149376581	149376578	149376576	149376579	149376577	149376575
γ-proteobacteria-Alteromonadales	<i>Moritella</i> sp. PE36	FL M	149911095	149911094	149911091	149911093	149911092	149911091
γ-proteobacteria-Alteromonadales	<i>Pseudalteromonas atlantica</i> T6c	FL M	109896781	109896782	109896786	109896783	109896784	109896785
γ-proteobacteria-Alteromonadales	<i>Pseudalteromonas tunicata</i> D2	FL M	88858245	88858244	88858240	88858243	88858242	88858241
γ-proteobacteria-Alteromonadales	<i>Psychromonas ingrahamii</i> 37	FL M	119944517	119944518	119944522	119944519	119944520	119944521
γ-proteobacteria-Alteromonadales	<i>Psychromonas</i> sp. CNPT3	FL M	470479877	470479876	470479872	470479875	470479874	470479873
γ-proteobacteria-Alteromonadales	<i>Saccharophagus degradans</i> 2-40	FL M	90021442	90021443	90021447	90021444	90021445	90021446
γ-proteobacteria-Alteromonadales	<i>Shewanella halifaxensis</i> HAW-EB4	FL M	167625099	167625098	167625094	167625097	167625096	167625095
γ-proteobacteria-Alteromonadales	<i>Shewanella woodyi</i> ATCC 51908	M	170727950	170727949	170727945	170727948	170727947	170727946
γ-proteobacteria-Alteromonadales	<i>Teredinibacter turnerae</i> T901	M	254786006	254786007	254786011	254786008	254786009	254786010
γ-proteobacteria-Enterobacteriales	<i>Arsephenonax nasomiae</i>	A Path	284007777	284007776	284007772	284007775	284007774	284007773
γ-proteobacteria-Enterobacteriales	<i>Enterobacteriaceae bacterium</i> strain FGI 57	FL non-M	440288960	440288959	440288955	440288958	440288957	440288956
γ-proteobacteria-Enterobacteriales	<i>Escherichia blattae</i> DSM 4481	A Path	387890413	387890412	387890408	387890411	387890410	387890409
γ-proteobacteria-Enterobacteriales	<i>Klebsiella pneumoniae</i> subsp. <i>pneumoniae</i> MGH 78578	H/A Path	152968813	152968814	152968818	152968815	152968816	152968817
γ-proteobacteria-Enterobacteriales	<i>Photobacterium asymmetricum</i>	H Path	253990731	253990730	253990726	253990729	253990728	253990727
γ-proteobacteria-Enterobacteriales	<i>Serratia proteomaculans</i> 568	Int/Cell/Protist	157369198	157369199	157369203	157369200	157369201	157369202
γ-proteobacteria-Enterobacteriales	<i>Yersinia pestis</i> KIM10+	H Path	22124858	22124859	22124863	22124860	22124861	22124862
γ-proteobacteria-Enterobacteriales	<i>Yersinia pseudotuberculosis</i> YPIII	H Path	170025522	170025521	170025517	170025520	170025519	170025518
γ-proteobacteria-Methylocooccales	<i>Methylococcum alcaliphilum</i> 20Z	FL non-M Halo	357405587	357405586	357405582	357405585	357405584	357405583
γ-proteobacteria-Methylocooccales	<i>Methylococcus capsulatus</i> str. Bath	FL non-M	53803505	53803506	53803519	53803507	53803508	53803509
γ-proteobacteria-Oceanospirillales	<i>Alcanivorax borkumensis</i> SK2	FL M	110833893	110833894	110833898	110833895	110833896	110833897
γ-proteobacteria-Oceanospirillales	<i>Bermanella marisrubri</i>	FL M	94499514	94499515	94499519	94499516	94499517	94499518
γ-proteobacteria-Oceanospirillales	<i>Chromohalobacter salexigenis</i> DSM 3043	FL M Halo	92113693	92113694	92113698	92113695	92113696	92113697
γ-proteobacteria-Oceanospirillales	<i>Hahella chejuensis</i> KCTC 2396	FL M	83645463	83645464	83645468	83645465	83645466	83645467
γ-proteobacteria-Oceanospirillales	<i>Halomonas boliviensis</i> LC1	FL non-M Halo	359395291	359395290	359395286	359395289	359395288	359395287
γ-proteobacteria-Oceanospirillales	<i>Marinomonas mediterranea</i> MMB-1	FL M	326546602	326546601	326546597	326546600	326546599	326546598
γ-proteobacteria-Oceanospirillales	<i>Marinomonas</i> sp. MWL1	FL M Halo	152995737	152995738	152995742	152995739	152995740	152995741
γ-proteobacteria-Oceanospirillales	<i>Neptanibacter caecoriensis</i>	FL M	80994302	80994303	80994307	80994304	80994305	80994306
γ-proteobacteria-Pasteurellales	<i>Aerogathibacter actinomycetomimans</i> D75-1	H/A Path	293390921	293390920	293390916	293390919	293390918	293390917
γ-proteobacteria-Pasteurellales	<i>Haemophilus influenzae</i> 86-O2NHP	H Path	68248771	68248772	68248776	68248773	68248774	68248775
γ-proteobacteria-Pasteurellales	<i>Pasteurella multocida</i> subsp. <i>multocida</i> str. Pn70	H Path	15603193	15603194	15603198	15603195	15603196	15603197
γ-proteobacteria-Pseudomonadales	<i>Cellvibrio japonicus</i> Ueda107	FL non-M	192359833	192359833	190685590	192362189	192361593	192361014
γ-proteobacteria-Pseudomonadales	<i>Moraxella catarrhalis</i> BC1	H Path	416237647	416237648	416237652	416237649	416237650	416237651
γ-proteobacteria-Pseudomonadales	<i>Pseudomonas aeruginosa</i> PAO1	H Path	15598195	15598194	15598190	15598193	15598192	15598191
γ-proteobacteria-Pseudomonadales	<i>Pseudomonas pseudoalcaligenes</i> KF707	FL non-M	443472679	443472678	443472674	443472677	443472676	443472675
γ-proteobacteria-Pseudomonadales	<i>Psychrobacter cryohalotolerans</i> K5	FL M	93007248	93007249	93007253	93007250	93007251	93007252
γ-proteobacteria-Pseudomonadales	<i>Psychrobacter</i> sp. PrWf-1	M	148651917	148651916	148651912	148651915	148651914	148651913
γ-proteobacteria-Thiotrichales	<i>Cycloclasticus</i> sp. P1	FL M	407715786	407715787	407715791	407715788	407715789	407715790
γ-proteobacteria-Thiotrichales	<i>Methylophaga</i> sp. JAM1	FL M	387128366	387128367	387128371	387128368	387128369	387128370
γ-proteobacteria-Vibrionales	<i>Photobacterium leionathi</i> subsp. <i>mandapamensis</i> svers.1.1	FL M	330445290	330445291	330445295	330445292	330445293	330445294
γ-proteobacteria-Vibrionales	<i>Vibrio cholerae</i> O1 <i>bivovar</i> El Tor str. N16961	M/H Path	15642293	15642292	15642288	15642291	15642290	15642289
Bacteroidetes-Chlorobi-Bacteroidetes	<i>Korarchaeum</i> sp. 2-1_33B	FL M	163755680	163755681	163755685	163755682	163755683	163755684
Bacteroidetes-Chlorobi-Bacteroidetes	<i>Mesofillibacter zeaxanthinifaciens</i> S86	FL M	372222847	372222848	372222852	372222849	372222850	372222851
Bacteroidetes-Chlorobi-Bacteroidetes	<i>Anaerophaga thermohalophila</i> DSM 12881	FL non-M	346224054	346224055	346224059	346224056	346224057	346224058
Bacteroidetes-Chlorobi-Bacteroidetes	<i>Bacteroides</i> sp. 2_1_33B	H mic	262381724	262381725	262381729	262381726	262381727	262381728
Bacteroidetes-Chlorobi-Bacteroidetes	<i>Bacteroides fragilis</i> YCH46	H/A Path	60681549	53713301	53713305	53713302	53713303	53713304
Bacteroidetes-Chlorobi-Bacteroidetes	<i>Tannerella</i> sp. 6_1_58FAA_CT1	H Path	365122080	365122081	365122085	365122082	365122083	365122084
Bacteroidetes-Chlorobi-Bacteroidetes	<i>Porphyromonas gingivalis</i> ATCC 33277	H Path	188993978	188993979	188993983	188993980	188993981	188993982
Bacteroidetes-Chlorobi-Chlorobi	<i>Chlorobium phaeoacidovorans</i> BS1	FL non-M	189501294	189501293	189501289	189501292	189501291	189501290
Bacteroidetes-Chlorobi-Chlorobi	<i>Prosthecochloris aestuarii</i> DSM 271	FL M	194334929	194334928	194334924	194334927	194334926	194334925
Chlamydiae-Chlamydia-Chlamydiales	<i>Chlamydia caviae</i> GPIC	A Path	29839771	29840129	29840642	29840128	29840127	29840126
Chlamydiae-Chlamydia-Chlamydiales	<i>Waddlia chondrophila</i> WSU 86-1044	A Path	297622124	297620514	297620460	297620513	297620512	297620511
Chlamydiae-Chlamydia-Chlamydiales	<i>Candidatus Protochlamydia amoebophila</i> UWE25	H Path	46445729	46445935	46447167	46445934	46445933	46445932
Chlamydiae-Chlamydia-Chlamydiales	<i>Chlamydia trachomatis</i> D-EC	H Path	297748764	297748407	297748871	297748408	297748409	297748410
Chlamydiae-Chlamydia-Chlamydiales	<i>Chlamydia pneumoniae</i> CWL029	H Path	15618653	15618342	15618792	15618343	15618344	15618345
Chlamydiae-Chlamydia-Chlamydiales	<i>Sinkania negevensis</i> Z	H Path	336483587	33873270	338732292	338732369	338732368	338732367
Chlamydiae-Chlamydia-Chlamydiales	<i>Chlamydia muridarum</i> Nigg5	H/A Path	15834627	15835168	15834741	15835169	15835170	15835171
Chlamydiae-Chlamydia-Chlamydiales	<i>Parachlamydia acanthonoeboae</i> str. Hall's coccus	Int/Cell/Protist	282890124	282891904	282892090	282891905	282891906	