

1 **Table S1:** Number of reads related to different bacterial taxa found in the analyzed samples.

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Taxonomy	D10-R3 _bac1	D10-R3 _bac2	D10-R3 _bac3	D10-R7 _bac1	D10-R7 _bac2	D10-R7 _bac3	D10-R7 _bac4	D03-B1 _bac1	D03-B1 _bac2	D03-B1 _bac3
Acidobacteria	14336	11021	15071	404	526	311	311	12687	10869	11616
Actinobacteria	4724	4340	5322	562	709	729	757	3901	3426	3410
Bacteroidetes	616	533	692	964	3254	2213	1946	114	200	153
Calditrichaceae	43	33	52	633	1679	1334	2057	49	33	32
Chloroflexi	12335	9326	15451	3407	1459	1424	2142	20841	21217	19102
Dadabacteria	4008	2468	4064	8	3	5	0	2394	2287	1782
Sulfurovum	6	6	2	406	465	268	256	0	0	0
Sulfurimonas	4	1	0	114	344	267	324	0	0	1
Epsilonbacteria (others)	0	1	1	25	58	37	56	0	0	0
Gemmatimonadetes	1549	1113	1780	7	0	3	2	1256	1039	1042
Nitrospinae	151	127	202	1	0	0	0	217	175	186
Nitrospira	2920	1912	3287	1	7	8	6	466	365	374
Kaiserbacteria	847	465	1068	2	2	26	9	118	74	122
Planctomycetes	297	242	390	1132	1585	1540	1344	159	170	129
Poribacteria	464	332	637	31	8	6	12	592	483	510

3 **Table S1.** Continued

Taxonomy	D10-R3 _bac1	D10-R3 _bac2	D10-R3 _bac3	D10-R7 _bac1	D10-R7 _bac2	D10-R7 _bac3	D10-R7 _bac4	D03-B1 _bac1	D03-B1 _bac2	D03-B1 _bac3
Alphaproteobacteria	2194	1609	2999	54	317	382	165	2593	2244	2315
Desulfatiglans	2	0	0	895	1047	558	782	0	0	0
Desulfococcus	0	0	0	1984	1878	590	1380	0	0	0
SEEP-SRB1	5	1	3	2238	1536	1352	1085	0	0	0
Desulfobulbus	3	0	0	355	375	367	685	0	0	0
SEEP-SRB2	0	0	0	1199	1223	1162	1255	0	0	0
Myxococcales	498	381	750	74	73	77	105	1509	1129	1428
Deltaproteobacteria (others)	259	168	312	3204	2854	2174	2360	266	245	256
Sedimenticolaceae	0	1	0	136	216	357	324	0	0	0
Thiohalophilus	0	0	1	93	172	99	113	0	0	0
Enterobacteria	28	13	44	1	0	0	0	847	1829	1357
MMG-2	1	4	4	66	462	679	422	0	0	0
Nitrosococcaceae	397	271	597	0	0	1	1	2442	1907	2043
Woeseiaceae	395	307	556	14	52	118	50	2025	2086	1856
Thiomicrospiraceae (endosymbionts)	0	1	0	392	639	534	712	0	0	0

5 **Table S1:** Continued

Taxonomy	D10-R3 _bac1	D10-R3 _bac2	D10-R3 _bac3	D10-R7 _bac1	D10-R7 _bac2	D10-R7 _bac3	D10-R7 _bac4	D03-B1 _bac1	D03-B1 _bac2	D03-B1 _bac3
Thiotrichaceae	0	0	2	185	498	671	506	0	0	0
Gammaproteobacteria (others)	4127	2572	4572	138	850	908	571	2103	1992	1980
Spirochaeta	853	541	1021	344	442	410	256	293	254	301
Verrucomicrobia	392	254	505	0	1	0	0	1037	1207	1080
Unclassified	392	304	612	1857	2548	1680	1911	253	267	295

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18 **Table S2.** Number of reads related to different archaeal taxa found in the analyzed samples.

Taxonomy	D10-R3 _arch1	D10-R3 _arch2	D10-R3 _arch3	D10-R7 _arch1	D10-R7 _arch2	D10-R7 _arch3	D10-R7 _arch4	D03-B1 _arch1	D03-B1 _arch2	D03-B1 _arch3
ANME-1	2	8	1	18976	3699	11170	15108	0	0	0
ANME-2	304	254	119	17049	9842	14581	14865	1	1	0
Thermoplasmata	0	1	1	219	83	380	137	3	1	0
<i>Candidatus Nitrosopumilus</i>	5841	6724	6074	3	1	1	1	2286	3931	3726
<i>Cenarchaeum</i>	28772	30241	28018	0	0	0	0	30843	38709	38587
<i>Nitrososphaera</i> (others)	2197	2625	2728	7	0	2	0	106	165	149
Asgardaeota	0	1	0	475	156	493	450	2	0	0
Bathyarchaeia	0	0	0	25	24	104	52	0	1	0
Woesearchaeia	1475	3941	1015	35	8	20	30	13	17	10
Unclassified	1477	3943	1017	823	282	1050	788	15	18	10

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