

**S1 Table. Top named or cultured representative(s) based on BLASTN searches and read counts matching the 747 OTUs related to the ammonia-oxidizing Archaea (AOA). The 22 OTUs enriched at 10 m and 25 m but relatively less abundant at deeper depths are indicated with an asterisk (\*) after the OTU number (see main text).**

OTU	GenBank Accession no.	Top named or cultured representative(s)	%ID to match	10m	25m	100m	130m	250m
306	LT896734	<i>Candidatus Nitrosopelagicus</i> strain CN25 (CP007026.1)	98%	187	439	33	247	56
820	LT896735	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1)	97%	3	37	2	41	28
1972	LT896736	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	99%	23	577	21	76	19
2000	LT896737	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	99%	158	866	69	18	1
2383	LT896738	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1)	90%	7	25	0	1	2
2464	LT896739	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	27	6	0	1	2
2960	LT896740	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	220	28	388	27
3097	LT896741	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	4	0	4	1
3206	LT896742	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	100%	263	673	439	347	64
3225	LT896743	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1),	98%	24	55	1	35	6
3272	LT896744	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	1	1051	100	1375	1407
3285*	LT896745	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1)	100%	2942	3153	17	143	85
3306	LT896746	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	36	6	67	23

<b>3343</b>	LT896747	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1)	98%	11	38	0	3	1
<b>3353</b>	LT896748	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1)	96%	37	39	5	46	359
<b>3359</b>	LT896749	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	5	48	49	106	12
<b>3380</b>	LT896750	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	342	23	15	22	484
<b>3491</b>	LT896751	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	14	31	11	32	236
<b>3503</b>	LT896752	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	5	199	37	270	688
<b>3626</b>	LT896753	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C, (CP010868.1)	96%	3	67	11	126	1448
<b>3801</b>	LT896754	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	25	48	5	48	982
<b>3810</b>	LT896755	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	22	369	299	453	260
<b>4113</b>	LT896756	<i>Candidatus Nitrosopumilus</i> sp. NF5e (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	89%	1	0	0	0	0
<b>5065</b>	LT896757	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1)	96%	5	0	0	0	3
<b>5077</b>	LT896758	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1)	96%	9	59	2	1	3
<b>5612</b>	LT896759	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1)	92%	2	4	0	0	0
<b>5820</b>	LT896760	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	1	0	0	0	0

<b>6126</b>	LT896761	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1)	99%	86	74	0	7	3
<b>6188</b>	LT896762	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	88%	1	0	0	0	0
<b>6312</b>	LT896763	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	11	20	19	7	4
<b>6364</b>	LT896764	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1)	96%	14	81	20	244	1794
<b>6810</b>	LT896765	<i>Nitrosopumilus maritimus</i> SCM1 strain (NR_102913.1)	89%	1	0	0	0	0
<b>6964</b>	LT896766	<i>Candidatus Nitrosopumilus koreensis</i> AR1 strain (NR_102904.1)	93%	1	2	0	1	0
<b>7168</b>	LT896767	<i>Candidatus Nitrososphaera gargensis</i> (NR_102916.1)	83%	1	7	1	1	2
<b>7402</b>	LT896768	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	92%	1	0	0	1	0
<b>7569*</b>	LT896769	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	100%	1267	261	5	36	12
<b>7639</b>	LT896770	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	87%	1	9	0	6	2
<b>7793</b>	LT896771	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	94%	3	0	0	0	0
<b>8000</b>	LT896772	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	96%	13	7	0	12	63
<b>8028</b>	LT896773	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	95%	1	0	0	0	5
<b>8236</b>	LT896774	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	93%	7	8	0	0	0
<b>8345</b>	LT896775	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	88%	1	0	0	0	0

<b>8529</b>	LT896776	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	95%	2	0	0	0	0
<b>8831</b>	LT896777	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	92%	1	0	0	0	2
<b>9447</b>	LT896778	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	95%	7	11	6	3	16
<b>9638</b>	LT896779	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	92%	1	2	0	0	0
<b>9660</b>	LT896780	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	87%	1	0	0	0	0
<b>9773</b>	LT896781	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	94%	5	7	0	3	8
<b>9854</b>	LT896782	<i>Candidatus Nitrososphaera gargensis</i> (NR_102916.1)	77%	1	0	0	0	0
<b>9967</b>	LT896783	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	90%	3	0	0	0	0
<b>10230</b>	LT896784	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	98%	32	166	2	12	7
<b>10759</b>	LT896785	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	92%	1	0	0	0	0
<b>11077</b> *	LT896786	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	100%	2854	7838	25	72	12
<b>11246</b>	LT896787	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	92%	4	5	0	0	0
<b>11421</b>	LT896788	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	1	0	0	0	0
<b>11494</b>	LT896789	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	1	37	8	58	271
<b>11766</b>	LT896790	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	66	346	1	1	0
<b>11862</b>	LT896791	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	100%	434	697	2	0	0

<b>11968*</b>	LT896792	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1)	100%	5025	1980 4	3	2	1
<b>12148</b>	LT896793	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	98%	3	3	0	0	0
<b>12154</b>	LT896794	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	98%	24	3	0	1	1
<b>14018</b>	LT896795	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	94%	1	5	0	0	0
<b>15090</b>	LT896796	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	93%	1	0	0	0	0
<b>15267</b>	LT896797	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	2	4	2	3	0
<b>15440</b>	LT896798	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1)	96%	12	52	2	14	1
<b>15912</b>	LT896799	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1.), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	91%	1	3	0	2	1
<b>16209</b>	LT896800	<i>Candidatus nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	7	54	2	22	37
<b>16282</b>	LT896801	<i>Candidatus nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	1	0	0	0	0
<b>16366</b>	LT896802	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	97%	271	556	4	90	7
<b>16415</b>	LT896803	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	94%	1	7	0	2	0
<b>16461</b>	LT896804	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	1	27	58	5	2
<b>16813</b>	LT896805	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	96%	2	1	0	0	0
<b>17034</b>	LT896806	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	1	1	1	0	0
<b>17072</b>	LT896807	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	1	36	35	2	0
<b>17460</b>	LT896808	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	87%	1	0	0	0	0
<b>18055</b>	LT896809	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	90%	1	0	0	0	0

<b>18551</b>	LT896810	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	4	55	5	81	1161
<b>18647</b>	LT896811	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	1	4	0	0	0
<b>19140</b>	LT896812	<i>Candidatus nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	1	0	0	0	1
<b>19269</b>	LT896813	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	1	24	0	119	868
<b>19595</b>	LT896814	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	2	90	12	77	700
<b>20099</b>	LT896815	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	1	3	1	0	0
<b>20204</b>	LT896816	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	92%	1	9	0	1	0
<b>20233</b>	LT896817	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	1	5	1	0	1
<b>20356</b>	LT896818	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	100%	1	544	2	6	0
<b>20746</b>	LT896819	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	98%	0	1019	75	255	49
<b>20748</b>	LT896820	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	433	1	4	0
<b>20762</b>	LT896821	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	20	4	2	0
<b>20799</b> *	LT896822	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	1529	6	10	1
<b>20807</b>	LT896823	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	96%	0	42	1	0	1
<b>20827</b>	LT896824	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	92%	0	2	0	0	0
<b>20894</b>	LT896825	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	92%	0	1	0	0	0
<b>20929</b>	LT896826	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	88%	0	1	0	0	0
<b>21166</b>	LT896827	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	1	0	0	0
<b>21174</b>	LT896828	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	94%	0	9	0	0	1
<b>21189</b>	LT896829	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	92%	0	1	0	0	0
<b>21195</b>	LT896830	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	4	1	0	5
<b>21201</b>	LT896831	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	90%	0	1	0	1	0
<b>21292</b>	LT896832	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	31	0	1	2

<b>21318</b>	LT896833	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	0	1	0	0	0
<b>21374</b>	LT896834	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	2	0	0	0
<b>21377</b>	LT896835	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	20	0	1	2
<b>21394</b>	LT896836	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	573	0	2	1
<b>21482</b>	LT896837	<i>Candidatus Nitrosopumilus</i> sp. PS0 (KF957664.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	91%	0	1	0	0	0
<b>21586</b>	LT896838	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	99%	0	41	3	0	0
<b>21643</b>	LT896839	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	25	4	39	51
<b>21664</b>	LT896840	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	9	0	5	4
<b>21710</b>	LT896841	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	3	0	1	0
<b>21720</b>	LT896842	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	92%	0	1	0	0	0
<b>21750</b>	LT896843	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	92%	0	3	0	2	0
<b>21773</b>	LT896844	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	92%	0	31	0	2	0
<b>21813</b>	LT896845	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	1	25	0	0	0
<b>21834</b>	LT896846	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	94%	0	36	0	0	1
<b>21937</b>	LT896847	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1),	89%	0	1	0	0	0
<b>22124</b>	LT896848	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	1	0	0	0
<b>22180</b>	LT896849	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	92%	0	1	0	0	0
<b>22207</b>	LT896850	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	88%	0	1	1	1	2
<b>22249</b>	LT896851	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	97%	0	13	2	9	9
<b>22293</b>	LT896852	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	96%	0	31	26	2	23
<b>22337</b>	LT896853	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	95%	0	42	5	7	1
<b>22419</b>	LT896854	<i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1)	99%	0	90	1	8	7
<b>22430</b>	LT896855	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	98%	0	221	0	1	1
<b>22474</b> *	LT896856	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (\KF957663.1), <i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1)	98%	0	1980	190	125	87

<b>22536</b>	LT896857	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	4	0	0	0
<b>22609</b>	LT896858	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	90%	0	103	17	80	129
<b>22615</b>	LT896859	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	90%	0	3	0	1	3
<b>22644</b>	LT896860	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	97%	0	2	1	0	0
<b>22714</b>	LT896861	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	91%	0	1	0	1	0
<b>22749</b>	LT896862	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	5	0	5	1
<b>22823</b>	LT896863	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	100%	1	174	0	8	4
<b>22830</b> *	LT896864	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	100%	0	35809	0	3	1
<b>22845</b> *	LT896865	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	99%	0	1571	14	12	2
<b>22849</b>	LT896866	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	98%	0	458	34	8	1
<b>22890</b> *	LT896867	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	96%	0	2489	23	28	6
<b>22972</b>	LT896868	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	97%	0	24	3	6	0
<b>22977</b>	LT896869	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	91%	0	216	32	528	7285
<b>23162</b>	LT896870	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	93%	0	1	0	0	0
<b>23218</b>	LT896871	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	95%	0	5	2	3	1
<b>23310</b>	LT896872	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	98%	0	7	1	1	0
<b>23351</b> *	LT896873	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	100%	0	2450	1	2	0
<b>23536</b>	LT896874	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	96%	0	27	0	8	6
<b>23612</b>	LT896875	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	0	106	15	58	18
<b>23840</b>	LT896876	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	97%	0	10	1	7	0
<b>23852</b>	LT896877	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	97%	0	81	11	12	3
<b>23915</b>	LT896878	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	97%	0	5	1	0	0



<b>24003</b> *	LT896879	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	94%	0	1579 7	0	8	3
<b>24054</b>	LT896880	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	98%	0	38	5	41	20
<b>24090</b>	LT896881	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	7	0	5	0
<b>24305</b>	LT896882	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	92%	0	6	0	2	0
<b>24312</b>	LT896883	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	100%	0	4	0	2	1
<b>24395</b>	LT896884	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	95%	0	1	0	0	0
<b>24403</b>	LT896885	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	97%	0	1	0	0	1
<b>24440</b>	LT896886	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (HQ214501.1)	97%	0	6	0	2	0
<b>24467</b>	LT896887	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	90%	0	58	1	9	5
<b>24703</b>	LT896888	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	90%	0	2	0	0	0
<b>24719</b>	LT896889	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 strain (NR_102904.1)	94%	0	2	0	1	0
<b>24879</b>	LT896890	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 strain (NR_102904.1)	92%	0	2	0	0	0
<b>24983</b>	LT896891	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 strain (NR_102904.1)	99%	0	90	0	0	1
<b>24989</b>	LT896892	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	92%	0	2	1	1	2
<b>25118</b>	LT896893	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> SCM1 strain SCM1 16S (NR_102913.1)	92%	0	1	0	0	0
<b>25130</b>	LT896894	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 strain (NR_102904.1)	95%	0	1	0	0	0
<b>25157</b>	LT896895	Uncultured <i>Candidatus Nitrosopumilus</i> sp. clone A15 (KT335988.1)	97%	0	6	2	5	119
<b>25177</b>	LT896896	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	0	1	0	0	0
<b>25204</b>	LT896897	<i>Candidatus Nitrosopumilus</i> sp. PS0 (KF957664.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	96%	0	1	0	0	0
<b>25222</b>	LT896898	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> SCM1 strain (NR_102913.1)	84%	0	1	0	0	0
<b>25287</b>	LT896899	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	45	27	30	28

<b>25297</b>	LT896900	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	86%	0	2	0	0	0
<b>25303</b>	LT896901	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> SCM1 strain SCM1 (NR_102913.1)	99%	0	328	0	2	1
<b>25452</b>	LT896902	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> SCM1 strain SCM1 (NR_102913.1)	93%	0	1	0	0	0
<b>25470</b>	LT896903	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	0	1	0	0	0
<b>25587</b>	LT896904	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> SCM1 strain SCM1 (NR_102913.1)	99%	0	184	1	1	1
<b>25758</b>	LT896905	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1)	94%	0	1	0	0	0
<b>26263</b>	LT896906	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	4	0	3	0
<b>26425</b> *	LT896907	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	3473	40	33	12
<b>26608</b>	LT896908	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	98%	0	53	1	0	1
<b>26612</b> *	LT896909	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1)	100%	0	1162 5	2	3	0
<b>26903</b>	LT896910	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1)	93%	0	2	0	0	0
<b>26906</b>	LT896911	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1)	92%	0	15	0	0	1
<b>27220</b>	LT896912	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	88%	0	1	0	0	0
<b>27340</b> *	LT896913	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1)	98%	0	1230 4	465	153	77
<b>27384</b>	LT896914	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1)	98%	0	2960	847	19	9
<b>27490</b>	LT896915	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	100%	0	596	8	16	13
<b>27493</b>	LT896916	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	1	0	0	0

<b>27514</b>	LT896917	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1)	99%	0	279	6	3	2
<b>27538</b> *	LT896918	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1)	99%	0	1107	19	8	11
<b>27557</b>	LT896919	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1)	99%	0	230	1	0	1
<b>27608</b> *	LT896920	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1)	100%	0	2222 8	3	22	34
<b>27622</b>	LT896921	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	90%	0	1	0	1	0
<b>27699</b>	LT896922	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	4	0	12	0
<b>27750</b>	LT896923	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	92%	0	1	1	8	1
<b>27841</b>	LT896924	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	1	1	0	3
<b>27883</b>	LT896925	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	140	0	14	3
<b>28136</b> *	LT896926	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	100%	0	3566	879	31	2
<b>28295</b>	LT896927	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	91%	0	4	0	0	0
<b>28423</b>	LT896928	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	86%	0	1	0	0	0
<b>28501</b>	LT896929	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	89%	0	1	0	0	0
<b>28526</b>	LT896930	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	720	1	2	3
<b>28655</b>	LT896931	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	93%	0	1	0	0	0
<b>28736</b>	LT896932	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	1	0	0	0
<b>28846</b>	LT896933	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	92%	0	1	0	1	0
<b>29178</b>	LT896934	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	159	68	51	3
<b>29649</b>	LT896935	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	91%	0	1	0	0	0

<b>29805</b> *	LT896936	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	6834	4342	1465	266
<b>29845</b> *	LT896937	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1)	100%	0	1114 1	2	27	7
<b>29875</b>	LT896938	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	93%	0	1	0	0	0
<b>29931</b>	LT896939	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	89%	0	1	0	0	0
<b>30156</b>	LT896940	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1)	98%	0	37	4	5	0
<b>30552</b>	LT896941	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	98%	0	159	151	15	2
<b>30631</b>	LT896942	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	1	0	1	0
<b>30657</b> *	LT896943	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1)	99%	0	2275 5	2920	788	353
<b>30812</b>	LT896944	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	97%	0	110	146	6	3
<b>30944</b>	LT896945	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	98%	0	4	2	1	1
<b>30970</b> *	LT896946	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1)	100%	0	1275 9	416	29	38
<b>31027</b>	LT896947	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	1	0	0	0
<b>31041</b>	LT896948	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	5	4	1	0
<b>31121</b>	LT896949	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	90%	0	1	0	0	0
<b>31178</b>	LT896950	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	1	527	116	52	21
<b>31280</b>	LT896951	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	0	1	0	0	0
<b>31377</b>	LT896952	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	1	0	1	1
<b>31558</b>	LT896953	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	92%	0	1	0	0	0
<b>31911</b> *	LT896954	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1), <i>Candidatus Nitrosomarinus catalina</i> strain SPOT01 (CP021324.1)	100%	0	5363	5159	1	0

<b>32039</b>	LT896955	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	97%	2	8	0	2	0
<b>32155</b>	LT896956	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	97%	0	337	4	76	122
<b>32164</b>	LT896957	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	99%	0	9	1	0	0
<b>32190</b>	LT896958	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	413	1	8	4
<b>32270</b>	LT896959	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	1	0	0	6
<b>32373</b>	LT896960	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	3154	1	46	7
<b>32375</b>	LT896961	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	75	1	175	147
<b>32402</b>	LT896962	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	1	3	9	187
<b>32403</b>	LT896963	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	99%	0	18	1	0	0
<b>32417</b>	LT896964	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	121	1	6	6
<b>32433</b>	LT896965	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	92%	0	0	1	0	0
<b>32434</b>	LT896966	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	98%	0	42	1	8	3

<b>32452</b>	LT896967	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	0	1	1	6
<b>32455</b>	LT896968	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	89%	0	0	1	0	0
<b>32510</b>	LT896969	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	1	1	0	6
<b>32573</b>	LT896970	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1),	96%	0	34	1	64	163
<b>32591</b>	LT896971	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	8	1	14	7
<b>32599</b>	LT896972	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	65	1	27	41
<b>32621</b>	LT896973	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	1	2	1	0
<b>32642</b>	LT896974	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	95%	0	0	1	0	14
<b>32648</b>	LT896975	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	1559	1	1198	381
<b>32662</b>	LT896976	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	6	1	3	0
<b>32724</b>	LT896977	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	96%	0	10	2	41	43

<b>32759</b>	LT896978	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	727	2	17	8
<b>32769</b>	LT896979	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	3	1	13	49
<b>32842</b>	LT896980	<i>Nitrosopumilus maritimus</i> SCM1 strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	99%	0	20	1	0	1
<b>32932</b>	LT896981	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	89%	0	0	1	0	1
<b>33011</b>	LT896982	<i>Nitrosopumilus maritimus</i> SCM1 strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	98%	0	1189	1	3	1
<b>33012</b>	LT896983	<i>Nitrosopumilus maritimus</i> SCM1 strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	99%	0	497	2	18	6

<b>33021</b>	LT896984	<i>Nitrosopumilus maritimus</i> SCM1 strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	100%	0	1017 1	1	63	13
<b>33037</b>	LT896985	<i>Nitrosopumilus maritimus</i> SCM1 strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	2	1	9	7
<b>33083</b>	LT896986	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	100%	0	1101	1	1	0
<b>33089</b>	LT896987	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	2	1	1	4
<b>33102</b>	LT896988	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	509	1	23	11
<b>33127</b>	LT896989	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	92%	0	0	1	0	0
<b>33133</b>	LT896990	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	1386	1	318	18
<b>33230</b>	LT896991	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	54	1	34	10
<b>33257</b>	LT896992	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	5020	0	42	147
<b>33292</b>	LT896993	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	58	0	4	17
<b>33420</b>	LT896994	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	99%	0	1100	0	868	62
<b>33436</b>	LT896995	<i>Nitrosopumilus maritimus</i> SCM1 strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	94%	0	2	0	0	0



<b>33475</b>	LT896996	<i>Nitrosopumilus maritimus</i> SCM1 strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	99%	0	422	0	110	9
<b>33501</b>	LT896997	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	4	0	14	10
<b>33560</b>	LT896998	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	1327	0	106	17
<b>33609</b>	LT896999	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	22	0	20	19
<b>33665</b>	LT897000	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	7	0	21	0
<b>33682</b>	LT897001	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	93	0	13	6
<b>33719</b>	LT897002	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	100%	0	1733	0	51	9
<b>33744</b>	LT897003	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	772	0	40	23
<b>33748</b>	LT897004	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	7961	0	217	36
<b>33775</b>	LT897005	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	229	0	14	2
<b>33801</b>	LT897006	<i>Nitrosopumilus</i> sp. DDS1 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	86%	0	1	0	1	1
<b>33811</b>	LT897007	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1)	100%	0	1321 7	0	90	19
<b>33869</b>	LT897008	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	1	124	0	16	9
<b>33880</b>	LT897009	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	98	0	40	4
<b>33881</b>	LT897010	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1)	88%	0	1	0	0	0
<b>33887</b>	LT897011	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1)	99%	0	69	0	45	4
<b>33907</b>	LT897012	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	99%	1	174	1	251	29
<b>33911</b>	LT897013	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	1	22	0	88	42
<b>33925</b>	LT897014	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	94%	0	1	0	0	0

33988	LT897015	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1)	98%	0	3486	0	1685	4
34020	LT897016	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	47	0	13	3
34030	LT897017	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1)	93%	0	3	0	0	0
34085	LT897018	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	12	0	19	14
34088	LT897019	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	164	0	92	2
34173	LT897020	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	18	0	3	9
34185	LT897021	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	744	0	60	29
34187	LT897022	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	100%	0	1400 9	0	4589	24
34201	LT897023	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1)	100%	0	9788	0	14	5
34255	LT897024	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1)	96%	0	13	0	14	8
34271	LT897025	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	366	0	360	11
34273	LT897026	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	7	0	9	1
34317	LT897027	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1)	97%	0	105	0	225	15
34344	LT897028	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	71	0	123	12
34366	LT897029	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	92%	0	1	0	2	0
34385	LT897030	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1)	95%	0	6	0	5	5
34388	LT897031	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	34	0	142	110
34397	LT897032	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1)	90%	0	1	0	0	0
34421	LT897033	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	99%	0	990	0	756	36
34454	LT897034	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	1012 4	0	202	44
34463	LT897035	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	2	0	1	1
34491	LT897036	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1)	100%	2	2540 8	3	12629	1247
34499	LT897037	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	295	0	18	126

34504	LT897038	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	96%	0	75	0	374	2421
34511	LT897039	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1)	98%	0	259	0	22	6
34526	LT897040	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1)	98%	0	2222	0	106	51
34531	LT897041	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	2	0	0	1
34557	LT897042	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1)	96%	0	1	0	2	0
34580	LT897043	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	2	0	4	6
34582	LT897044	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	0	1	0	0	0
34588	LT897045	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	934	0	107	24
34609	LT897046	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1)	95%	0	2	0	12	199
34619	LT897047	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	96%	0	39	0	140	185
34686	LT897048	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1)	93%	0	1	0	0	0
34693	LT897049	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	89%	0	1	0	0	0
34745	LT897050	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	536	0	93	2
34746	LT897051	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	93%	0	1	0	0	0
34809	LT897052	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	89%	0	1	0	0	0
34826	LT897053	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	829	0	443	14
34849	LT897054	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	5	0	30	3
34851	LT897055	<i>Candidatus Nitrosopumilus</i> sp. HCA1(KF957663.1)	98%	0	1615	0	1110	62
34856	LT897056	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	325	0	544	24
34861	LT897057	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	99%	0	1	0	0	0
34869	LT897058	<i>Candidatus Nitrosopumilus</i> sp. HCA1(KF957663.1)	94%	0	2	0	5	7
34883	LT897059	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	1	0	8	1
34886	LT897060	<i>Candidatus Nitrosopumilus</i> sp. HCA1(KF957663.1)	95%	0	1	0	0	0

<b>34891</b>	LT897061	<i>Candidatus</i> Nitrosopumilus sp. NF5 (CP011070.1), <i>Candidatus</i> Nitrosopumilus sp. D3C (CP010868.1), <i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	98%	0	191	0	14	0
<b>34893</b>	LT897062	<i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	96%	0	33	0	136	74
<b>34895</b>	LT897063	<i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	96%	0	160	0	36	36
<b>34896</b>	LT897064	<i>Candidatus</i> Nitrosopumilus sp. HCA1(KF957663.1)	92%	0	1	0	1	0
<b>34897</b>	LT897065	<i>Candidatus</i> Nitrosopumilus sp. HCA1(KF957663.1)	100%	3	1673 9	1	2911	111
<b>34915</b>	LT897066	<i>Candidatus</i> Nitrosopumilus sp. HCA1(KF957663.1)	99%	0	47	0	174	8
<b>34940</b>	LT897067	<i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	96%	0	1	0	0	3
<b>34951</b>	LT897068	<i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	98%	0	105	0	468	7
<b>34977</b>	LT897069	<i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	95%	0	2	0	6	0
<b>35024</b>	LT897070	<i>Candidatus</i> Nitrosopumilus sp. NF5 (CP011070.1)	98%	0	60	0	183	36
<b>35031</b>	LT897071	<i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	95%	0	189	0	280	9
<b>35034</b>	LT897072	<i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	98%	0	6101	0	4231	26
<b>35058</b>	LT897073	<i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	95%	0	1	0	5	33
<b>35112</b>	LT897074	<i>Candidatus</i> Nitrosopumilus sp. HCA1 (KF957663.1)	98%	0	1146	0	808	4
<b>35123</b>	LT897075	<i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	96%	0	47	0	110	1
<b>35144</b>	LT897076	<i>Candidatus</i> Nitrosopumilus sp. HCA1 (KF957663.1)	93%	0	1	0	1	1
<b>35170</b>	LT897077	<i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	97%	0	1	0	3	0
<b>35241</b>	LT897078	<i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	95%	0	1	0	2078	25
<b>35249</b>	LT897079	<i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	98%	0	4	0	11588	162
<b>35292</b>	LT897080	<i>Candidatus</i> Nitrosopumilus sp. NF5 (CP011070.1)	94%	0	1	0	0	1
<b>35293</b>	LT897081	<i>Candidatus</i> Nitrosopumilus sp. NF5 (CP011070.1), <i>Candidatus</i> Nitrosopumilus sp. D3C (CP010868.1)	94%	0	2	0	4	68
<b>35295</b>	LT897082	<i>Candidatus</i> Nitrosopumilus sp. HCA1 (KF957663.1),	99%	0	1	0	45	2
<b>35335</b>	LT897083	<i>Candidatus</i> Nitrosopumilus sp. HCA1 (KF957663.1)	93%	0	1	0	1	0
<b>35349</b>	LT897084	<i>Candidatus</i> Nitrosopumilus sp. HCA1 (KF957663.1)	93%	0	1	0	27	12
<b>35369</b>	LT897085	<i>Candidatus</i> Nitrosopelagicus brevis strain CN25 (CP007026.1)	97%	0	0	0	301	6

35375	LT897086	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	17	24
35420	LT897087	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	97%	0	0	0	18	1
35443	LT897088	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	98%	0	0	0	2949	285
35447	LT897089	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	3	0
35457	LT897090	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	89%	0	0	0	1	0
35483	LT897091	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	100%	0	5	0	17633	134
35511	LT897092	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	90%	0	0	0	1	4
35512	LT897093	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	0	0	1	1
35516	LT897094	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	54	50
35597	LT897095	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	489	22
35619	LT897096	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	98%	0	0	0	647	224
35670	LT897097	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	9	51
35737	LT897098	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1)	99%	0	0	0	113	7
35757	LT897099	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	0	0	720	107
35762	LT897100	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	0	0	1310	20
35766	LT897101	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	1	0	187	6
35827	LT897102	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	0	0	3	0
35832	LT897103	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	1	1	0	17	7
35884	LT897104	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	1	0	3	1
35893	LT897105	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1)	92%	0	0	0	1	0
35909	LT897106	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	53	22
35925	LT897107	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	0	0	1	0
35951	LT897108	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	71	65

<b>35966</b>	LT897109	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	0	0	415	537
<b>36007</b>	LT897110	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	0	0	102	22
<b>36011</b>	LT897111	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	5	2
<b>36019</b>	LT897112	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	3	0	543	35
<b>36032</b>	LT897113	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	0	0	235	21
<b>36041</b>	LT897114	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1)	93%	0	0	0	1	0
<b>36124</b>	LT897115	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	0	0	0	1	0
<b>36171</b>	LT897116	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	77	31
<b>36180</b>	LT897117	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1)	99%	0	0	0	174	170
<b>36229</b>	LT897118	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	1	0	139	59
<b>36238</b>	LT897119	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	1	0	5	0
<b>36241</b>	LT897120	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	0	0	1	0
<b>36298</b>	LT897121	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	92%	0	0	0	1	0
<b>36299</b>	LT897122	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	851	1192
<b>36306</b>	LT897123	<i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1), <i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1)	92%	0	0	0	1	0

<b>36322</b>	LT897124	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	25	50
<b>36328</b>	LT897125	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	3	7
<b>36352</b>	LT897126	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	1	58	78
<b>36357</b>	LT897127	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	90%	0	0	0	1	2
<b>36361</b>	LT897128	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	1	0	25	28
<b>36369</b>	LT897129	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	1	0	11993	36
<b>36420</b>	LT897130	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	90%	0	1	0	1	0
<b>36448</b>	LT897131	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	19	8
<b>36508</b>	LT897132	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	0	0	0	1	0
<b>36525</b>	LT897133	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	34	31
<b>36530</b>	LT897134	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1)	96%	0	0	0	1	0
<b>36561</b>	LT897135	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	838	189
<b>36585</b>	LT897136	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1)	98%	0	0	0	6205	357
<b>36587</b>	LT897137	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	1	0	241	146
<b>36591</b>	LT897138	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	578	9
<b>36598</b>	LT897139	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	0	0	0	1	0
<b>36626</b>	LT897140	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	99%	0	0	0	237	10
<b>36640</b>	LT897141	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	2337	550
<b>36708</b>	LT897142	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1)	98%	0	10	1	4015	659
<b>36720</b>	LT897143	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	1	0	19	10
<b>36721</b>	LT897144	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	1029	94
<b>36761</b>	LT897145	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	95%	0	0	0	3	126
<b>36832</b>	LT897146	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	96%	0	0	0	433	4861
<b>36839</b>	LT897147	<i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1)	94%	0	0	0	24	405
<b>36858</b>	LT897148	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	98%	0	0	0	111	7

<b>36861</b>	LT897149	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	16	1	394	427
<b>36872</b>	LT897150	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	96%	0	0	0	42	38
<b>36894</b>	LT897151	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	96%	0	1	0	4009	28
<b>36903</b>	LT897152	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	77	247
<b>36952</b>	LT897153	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	99%	0	3	0	123	3
<b>36955</b>	LT897154	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	98%	0	0	0	536	18
<b>36969</b>	LT897155	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	0	0	12	10
<b>36985</b>	LT897156	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	89%	0	0	0	1	0
<b>36990</b>	LT897157	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	92%	0	0	0	1	4
<b>36998</b>	LT897158	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	94%	0	0	0	1	2
<b>37032</b>	LT897159	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	96%	0	0	0	69	486
<b>37036</b>	LT897160	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	96%	0	0	0	5	4
<b>37119</b>	LT897161	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	96%	0	0	0	31	31
<b>37142</b>	LT897162	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	0	0	1	0
<b>37147</b>	LT897163	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	99%	0	0	0	51	8
<b>37164</b>	LT897164	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	99%	0	1	0	74	2
<b>37168</b>	LT897165	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	97%	0	0	0	12	23
<b>37188</b>	LT897166	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	1	0	780	165
<b>37203</b>	LT897167	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	1699	521
<b>37333</b>	LT897168	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	0	0	460	46
<b>37347</b>	LT897169	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	100%	0	8	0	8934	115
<b>37398</b>	LT897170	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	267	126



<b>37442</b>	LT897171	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	1	0	90	144
<b>37459</b>	LT897172	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	100%	0	5	0	1104	5
<b>37473</b>	LT897173	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	94%	0	0	0	1	1
<b>37475</b>	LT897174	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	0	0	7223	23
<b>37489</b>	LT897175	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	102	26
<b>37496</b>	LT897176	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	528	37
<b>37518</b>	LT897177	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	88%	0	0	0	2	1
<b>37554</b>	LT897178	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	25	3
<b>37617</b>	LT897179	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	1	0	52	1174
<b>37770</b>	LT897180	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	4	0
<b>37778</b>	LT897181	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	23	330
<b>37807</b>	LT897182	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	99%	0	5	1	48	42
<b>37827</b>	LT897183	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	94%	0	0	0	30	71

<b>37846</b>	LT897184	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	1	0	30	47
<b>37875</b>	LT897185	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	0	0	118	81
<b>37902</b>	LT897186	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	2	0	267	22
<b>37964</b>	LT897187	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	0	0	95	38
<b>37965</b>	LT897188	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	100%	0	0	0	1228	24
<b>37998</b>	LT897189	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%%	0	0	0	23	12
<b>38000</b>	LT897190	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	1	0	9	19
<b>38009</b>	LT897191	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	89%	0	0	0	2	1
<b>38037</b>	LT897192	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	0	0	1	0
<b>38051</b>	LT897193	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	0	0	1	0
<b>38059</b>	LT897194	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	98%	0	11	1	1316	411
<b>38064</b>	LT897195	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	0	0	1	1
<b>38101</b>	LT897196	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	99%	0	1	0	109	73
<b>38115</b>	LT897197	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	3	30
<b>38137</b>	LT897198	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	1	0	15	59

<b>38152</b>	LT897199	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	92%	0	0	0	221	14
<b>38166</b>	LT897200	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	1	0	44	43
<b>38232</b>	LT897201	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	0	0	3	2
<b>38249</b>	LT897202	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	0	0	9	845
<b>38261</b>	LT897203	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	95%	0	0	0	1	0
<b>38320</b>	LT897204	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	0	0	10331	450
<b>38321</b>	LT897205	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1), <i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	0	0	1	2
<b>38363</b>	LT897206	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	100%	0	17	0	10418	7179
<b>38387</b>	LT897207	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	3	2	555	581
<b>38399</b>	LT897208	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	10	23
<b>38439</b>	LT897209	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	2	647
<b>38478</b>	LT897210	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	1	0	1	18
<b>38487</b>	LT897211	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	2	0
<b>38509</b>	LT897212	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	1	0	1	15
<b>38510</b>	LT897213	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	98%	0	6	0	1	1251
<b>38523</b>	LT897214	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	0	0	0	1	0

<b>38525</b>	LT897215	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	17	2	10	422
<b>38641</b>	LT897216	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	100%	0	5	0	3	10890
<b>38661</b>	LT897217	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	10	1	12	354
<b>38670</b>	LT897218	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	1	0
<b>38674</b>	LT897219	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	98%	0	2	0	2	1390
<b>38681</b>	LT897220	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	1	11	1	12	105
<b>38700</b>	LT897221	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	1	1	4	3431
<b>38741</b>	LT897222	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	1	0	6	759
<b>38751</b>	LT897223	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	99%	0	0	0	1	3
<b>38755</b>	LT897224	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	98%	0	2	0	1	3459
<b>38811</b>	LT897225	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	100%	0	5	0	8	874
<b>38827</b>	LT897226	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	1	184

<b>38880</b>	LT897227	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	95%	1	0	0	1	1
<b>38888</b>	LT897228	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	1	0	1	991
<b>38938</b>	LT897229	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	98%	0	1	0	3	45
<b>38948</b>	LT897230	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	99%	0	0	0	1	38
<b>38958</b>	LT897231	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	90%	0	0	0	1	0
<b>38981</b>	LT897232	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	94%	0	0	0	1	0
<b>38997</b>	LT897233	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	0	0	1	83
<b>38998</b>	LT897234	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	98%	0	7	0	2	68
<b>39088</b>	LT897235	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	0	0	1	1
<b>39146</b>	LT897236	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	1	5
<b>39149</b>	LT897237	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	0	0	1	2
<b>39174</b>	LT897238	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	93%	0	0	0	0	7

<b>39209</b>	LT897239	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	650
<b>39214</b>	LT897240	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	0	60
<b>39220</b>	LT897241	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	3173
<b>39237</b>	LT897242	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	0	0	0	600
<b>39251</b>	LT897243	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	0	0	0	1
<b>39261</b>	LT897244	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	0	223
<b>39262</b>	LT897245	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	0	0	0	130
<b>39272</b>	LT897246	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	98%	0	1	0	1	83
<b>39338</b>	LT897247	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	35
<b>39362</b>	LT897248	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	94%	0	0	0	0	6
<b>39364</b>	LT897249	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	1	937
<b>39366</b>	LT897250	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	0	3
<b>39395</b>	LT897251	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	94%	0	0	0	0	93
<b>39484</b>	LT897252	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	91%	0	0	0	0	1
<b>39553</b>	LT897253	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	1	0	4

<b>39557</b>	LT897254	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	0	0	0	4
<b>39587</b>	LT897255	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	98%	0	0	0	0	1024
<b>39630</b>	LT897256	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	0	2
<b>39632</b>	LT897257	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	99%	0	1	0	0	1394
<b>39644</b>	LT897258	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	98%	0	0	0	0	23
<b>39665</b>	LT897259	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	94%	0	0	0	0	2
<b>39674</b>	LT897260	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	218
<b>39675</b>	LT897261	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	2068
<b>39699</b>	LT897262	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	1	0	0	583
<b>39706</b>	LT897263	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	1	0	0	10
<b>39726</b>	LT897264	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	668

<b>39748</b>	LT897265	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	294
<b>39753</b>	LT897266	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	88%	0	0	0	0	2
<b>39756</b>	LT897267	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus koreensis</i> AR1 (CP003842.1), <i>Nitrosopumilus maritimus</i> SCM1 (CP000866.1)	98%	0	0	0	0	2770
<b>39764</b>	LT897268	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	0	0	0	1
<b>39777</b>	LT897269	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	97%	0	0	0	0	1020
<b>39825</b>	LT897270	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	262
<b>39871</b>	LT897271	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	89%	0	0	0	0	1
<b>39893</b>	LT897272	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	93%	0	0	0	0	1487
<b>39903</b>	LT897273	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	40
<b>39904</b>	LT897274	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	363
<b>39939</b>	LT897275	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	92%	0	0	0	0	9
<b>39995</b>	LT897276	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	1	0	1	9858
<b>40012</b>	LT897277	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	1	0	0	1184
<b>40013</b>	LT897278	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	93%	0	0	0	0	5



40051	LT897279	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	89%	0	0	0	0	1
40064	LT897280	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	1	1	0	0	46
40077	LT897281	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	88%	0	0	0	0	1
40128	LT897282	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	139
40130	LT897283	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	39
40131	LT897284	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	14
40158	LT897285	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	6
40197	LT897286	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	93%	0	0	0	0	7
40231	LT897287	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	33
40240	LT897288	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	4
40288	LT897289	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	92%	0	0	0	0	1
40315	LT897290	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	97%	0	0	0	0	201

40388	LT897291	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	98%	0	2	0	1	10
40391	LT897292	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	96%	0	0	0	0	5
40392	LT897293	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	464
40397	LT897294	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	93%	0	0	0	0	19
40413	LT897295	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	2	0	1	259
40433	LT897296	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	2	193
40461	LT897297	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	224
40474	LT897298	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	16
40476	LT897299	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	14
40487	LT897300	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	93%	0	0	0	2	41
40519	LT897301	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	97%	0	5	2	4	964
40598	LT897302	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	98%	0	0	0	6	4252
40605	LT897303	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	106

40637	LT897304	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	741
40672	LT897305	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	0	0	2	47
40681	LT897306	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	17
40711	LT897307	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	385
40716	LT897308	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	98%	0	1	0	0	99
40717	LT897309	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	94%	0	0	0	0	63
40725	LT897310	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	1	2744
40734	LT897311	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	97%	0	1	0	0	1534
40742	LT897312	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	94%	0	0	0	0	417
40767	LT897313	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	317
40782	LT897314	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	99%	0	2	1	0	77
40817	LT897315	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	1774
40844	LT897316	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	2	2	0	1	30

40847	LT897317	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	100%	0	5	2	1	3406
40883	LT897318	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	158
40895	LT897319	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1)	98%	1	0	0	2	18
40911	LT897320	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	43
40943	LT897321	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	89%	0	0	0	0	1
40944	LT897322	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	1	2104
40957	LT897323	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	0	24
40987	LT897324	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	1	240	20	185	3557
40990	LT897325	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	0	1
41009	LT897326	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	3	2	10	640
41019	LT897327	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	3	0	12	106
41032	LT897328	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	739
41045	LT897329	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	1	0	528
41075	LT897330	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	3	0	3	1245
41092	LT897331	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	88%	0	0	0	0	1

<b>41093</b>	LT897332	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	1	3	4573
<b>41120</b>	LT897333	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	0	0	0	107
<b>41123</b>	LT897334	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	0	0	0	39
<b>41130</b>	LT897335	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	467
<b>41149</b>	LT897336	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	2	0	0	4
<b>41161</b>	LT897337	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	106
<b>41172</b>	LT897338	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	86%	0	0	0	0	1
<b>41200</b>	LT897339	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	0	1
<b>41216</b>	LT897340	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	0	29
<b>41218</b>	LT897341	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	93%	0	0	0	0	1
<b>41239</b>	LT897342	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	97%	0	0	0	3	3701
<b>41264</b>	LT897343	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	89%	0	0	0	0	1
<b>41281</b>	LT897344	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	0	9

<b>41306</b>	LT897345	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	93%	0	0	0	0	3
<b>41324</b>	LT897346	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	0	3
<b>41326</b>	LT897347	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	3
<b>41328</b>	LT897348	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	4	1	4	2548
<b>41360</b>	LT897349	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	13	0	12	919
<b>41363</b>	LT897350	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	90%	0	0	0	0	3
<b>41364</b>	LT897351	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	0	245
<b>41407</b>	LT897352	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	87%	0	0	0	0	1
<b>41458</b>	LT897353	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	97%	1	1	0	1	1311
<b>41471</b>	LT897354	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	1	0	1	41
<b>41520</b>	LT897355	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	0	544
<b>41559</b>	LT897356	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	1	0	0	2542
<b>41560</b>	LT897357	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	90%	0	0	0	0	1

<b>41575</b>	LT897358	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	98%	1	1	0	1	4913
<b>41580</b>	LT897359	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	1
<b>41590</b>	LT897360	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	9	1	7	1765
<b>41600</b>	LT897361	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	0	0	0	2
<b>41653</b>	LT897362	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	1
<b>41654</b>	LT897363	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	0	0	0	0	1
<b>41680</b>	LT897364	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	90%	0	0	0	0	1
<b>41684</b>	LT897365	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	1	20
<b>41686</b>	LT897366	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	0	0	0	0	2
<b>41699</b>	LT897367	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	3
<b>41701</b>	LT897368	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	98%	0	3	0	1	55

<b>41702</b>	LT897369	<i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	0	1	0	7
<b>41742</b>	LT897370	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	13
<b>41778</b>	LT897371	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	97%	0	5	3	6	455
<b>41823</b>	LT897372	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	90%	0	0	0	1	1
<b>41845</b>	LT897373	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	93%	0	0	0	0	119
<b>41849</b>	LT897374	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	0	40
<b>41854</b>	LT897375	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	97%	0	0	0	0	1
<b>41860</b>	LT897376	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	20	0	11	115
<b>41868</b>	LT897377	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	90%	0	0	0	0	2
<b>41879</b>	LT897378	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	16	590	27	126	2624



41880	LT897379	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	91%	0	0	0	0	1
41881	LT897380	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	20
41885	LT897381	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	9	0	4	93
41920	LT897382	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	89%	0	0	0	0	1
41945	LT897383	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	0	22
41956	LT897384	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	0	0	0	1
41965	LT897385	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	2092
41983	LT897386	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	0	366
41984	LT897387	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	1	0	3
41989	LT897388	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	0	221
42018	LT897389	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	1	64	5	18	69
42026	LT897390	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	1	91

42035	LT897391	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	1414
42068	LT897392	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	100%	38	1425	61	306	5528
42086	LT897393	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	93%	0	0	0	0	1
42091	LT897394	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	94%	0	0	0	0	1
42112	LT897395	<i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	94%	0	0	0	0	51
42126	LT897396	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	89%	0	0	0	0	1
42135	LT897397	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	0	1	2	416
42163	LT897398	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	0	1
42165	LT897399	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	14	3	12	686
42186	LT897400	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	0	6
42202	LT897401	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	91%	0	0	0	0	2
42223	LT897402	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	98%	0	9	1	4	2591
42274	LT897403	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	91%	0	0	0	0	1

42283	LT897404	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	92%	0	0	0	0	2
42287	LT897405	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	0	1
42317	LT897406	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	94%	0	0	0	0	2
42331	LT897407	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	89%	0	0	0	0	1
42350	LT897408	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	3	1	2	127
42371	LT897409	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	40
42376	LT897410	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	29
42394	LT897411	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	92%	0	0	0	0	1
42399	LT897412	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	88%	0	0	0	0	1
42400	LT897413	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	3	0	3	19
42438	LT897414	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	1	0	1	26
42440	LT897415	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	4	2	3	1081
42445	LT897416	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	4	487	32	377	834

42454	LT897417	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	91%	0	0	0	0	2
42456	LT897418	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	100%	4	403	6	69	86
42462	LT897419	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	0	25
42464	LT897420	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	89%	0	0	0	0	1
42494	LT897421	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	3	0	8	719
42510	LT897422	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	95%	0	0	0	0	1
42516	LT897423	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	100%	7	244	11	99	92
42533	LT897424	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	90%	0	0	0	0	1
42536	LT897425	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	24	1	34	306
42571	LT897426	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	8	3	18	400
42576	LT897427	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	97%	0	9	1	13	196
42596	LT897428	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	1
42607	LT897429	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	26	4	48	399
42623	LT897430	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	98%	2	272	19	169	2213
42638	LT897431	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	0	0	1	14

42693	LT897432	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	93%	0	0	0	0	1
42725	LT897433	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1)	95%	0	0	0	0	17
42734	LT897434	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	1	0	1	148
42754	LT897435	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	4	0	2	1243
42787	LT897436	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	97%	0	2	0	0	1
42793	LT897437	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	91%	0	0	0	0	1
42825	LT897438	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	4	1	2	960
42849	LT897439	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	94%	0	0	0	0	3
42861	LT897440	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	97%	0	0	0	0	1

<b>42869</b>	LT897441	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	92%	0	0	0	0	1
<b>42871</b>	LT897442	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	94%	0	0	0	0	1
<b>42878</b>	LT897443	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	1
<b>42896</b>	LT897444	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	0	1
<b>42901</b>	LT897445	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	0	1
<b>42902</b>	LT897446	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	92%	0	0	0	0	1
<b>42915</b>	LT897447	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	1
<b>42956</b>	LT897448	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	0	0	0	1
<b>42976</b>	LT897449	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	1
<b>42992</b>	LT897450	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	94%	0	0	0	0	1

<b>42996</b>	LT897451	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	96%	0	0	0	0	1
<b>43024</b>	LT897452	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	0	0	0	1
<b>43031</b>	LT897453	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	97%	0	0	0	0	1
<b>43043</b>	LT897454	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	96%	0	0	0	0	2
<b>43049</b>	LT897455	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	93%	0	0	0	0	1
<b>43050</b>	LT897456	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	96%	0	0	0	0	1
<b>43070</b>	LT897457	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	93%	0	0	0	0	1
<b>43084</b>	LT897458	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	93%	0	0	0	0	1

<b>43114</b>	LT897459	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	1	0	0	0	0
<b>43406</b>	LT897460	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	1	0	0	0
<b>43445</b>	LT897461	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	1	0	0	0
<b>43550</b>	LT897462	<i>Nitrosopumilus</i> sp. HCA1 (KX950757.1)	87%	0	1	0	0	0
<b>43594</b>	LT897463	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	98%	0	1	0	0	0
<b>43609</b>	LT897464	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	98%	0	0	1	0	0
<b>43659</b>	LT897465	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	1	0	0	0
<b>43844</b>	LT897466	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	1	0
<b>43866</b>	LT897467	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	94%	0	0	0	1	0
<b>43897</b>	LT897468	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	96%	0	0	0	0	1
<b>43958</b>	LT897469	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	95%	0	0	0	0	1
<b>44008</b>	LT897470	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	94%	0	0	0	0	1
<b>44015</b>	LT897471	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	93%	0	0	0	0	1
<b>44020</b>	LT897472	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	1
<b>44022</b>	LT897473	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	91%	0	0	0	0	1
<b>44064</b>	LT897474	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	98%	0	1	0	0	0
<b>44074</b>	LT897475	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	1	0



<b>44176</b>	LT897476	<i>Nitrosopumilus maritimus</i> strain NAOA6 (KT380502.1), <i>Nitrosopumilus maritimus</i> strain SCM1 (NR_102913.1), <i>Candidatus Nitrosopumilus koreensis</i> strain AR1 (NR_102904.1), <i>Candidatus Nitrosopumilus</i> sp. AR2 (CP003843.1), <i>Candidatus Nitrosopumilus</i> sp. HCA1 (KF957663.1)	99%	0	4	0	0	0
<b>44177</b>	LT897477	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	96%	0	1	0	1	3
<b>44178</b>	LT897478	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1), <i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	95%	0	0	0	0	1
<b>44180</b>	LT897479	<i>Nitrosopumilus</i> sp. DDS1 (KR737579.1), <i>Candidatus Nitrosopumilus</i> sp. NF5 (CP011070.1), <i>Candidatus Nitrosopumilus</i> sp. D3C (CP010868.1)	87%	0	1	0	0	0
<b>44192</b>	LT897480	<i>Candidatus Nitrosopelagicus brevis</i> strain CN25 (CP007026.1)	90%	0	1	0	0	0