

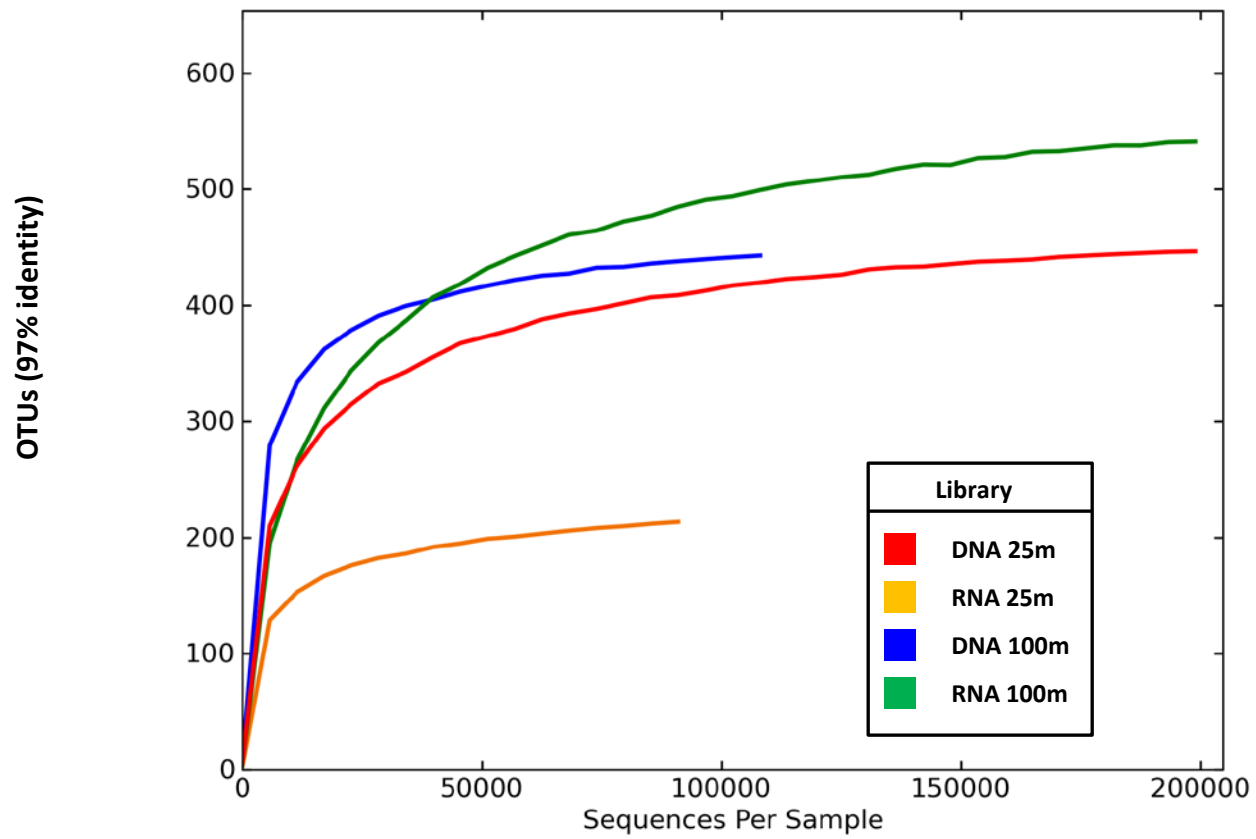
Supplemental Tables and Figures

Supplemental Table S1. OTU table showing the raw abundance for each OTU (97% identity) in 16S rDNA and rRNA libraries from 25 m and 100 m and the clade identification from RDP Classifier.

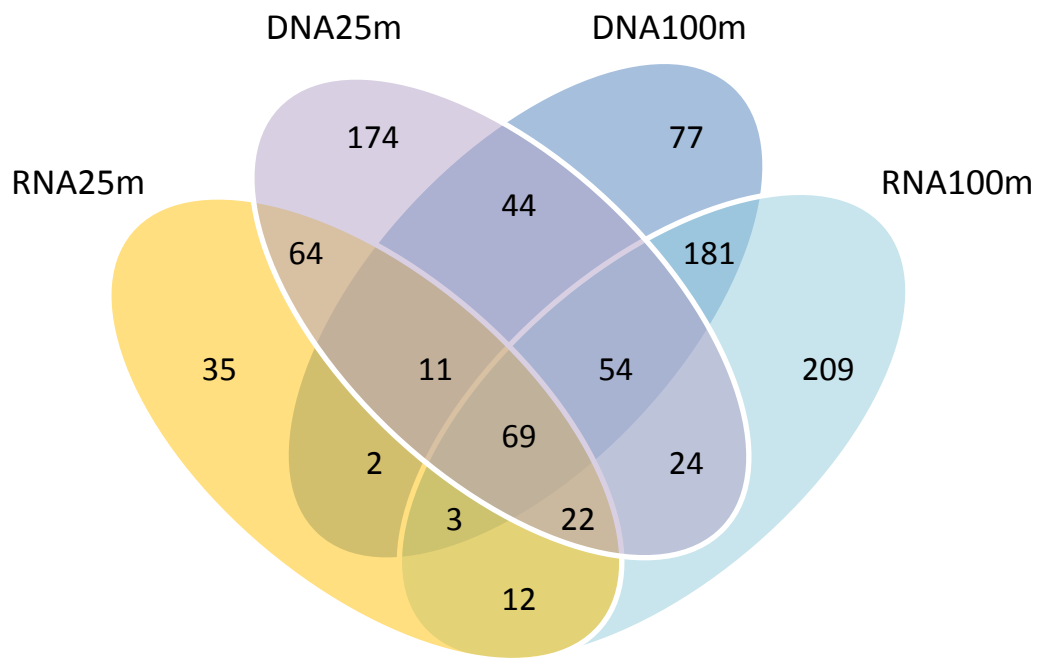
Supplemental Table S2. Best BLAST hit for each OTU when compared with the genomic reference sequence database and the associated e value.

Supplemental Figure S1. Rarefaction curves for 16S rDNA and rRNA libraries from station ALOHA at 25 m and 100 m depth. OTUs were defined at 97% identity to minimize sequencing errors.

Supplemental Figure S2. Shared and unique OTUs (97% identity) for 16S rDNA and rRNA libraries from station ALOHA at 25 m and 100 m depth.



Supplemental Figure S1



Supplemental Figure S2

Supplemental Table S1

#OTU ID	DNA25	RNA25	DNA100	RNA100	Consensus Lineage
1	0	0	0	7	Root;Bacteria
2	1	0	10	20	Root;Bacteria;Proteobacteria
5	29	12	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
11	160	0	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
12	0	0	0	157	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
14	8	3	1	42	Root;Bacteria;Proteobacteria
16	0	0	0	9	Root;Bacteria
23	43	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
29	0	0	0	14	Root;Bacteria;Proteobacteria
35	0	0	18	30	Root;Bacteria
37	63	2	9	0	Root;Bacteria;Proteobacteria
38	30	0	0	19	Root;Bacteria
40	0	0	0	7	Root;Bacteria
44	215	18	20	31	Root;Bacteria
48	0	0	21	4	Root;Bacteria
49	170	0	356	9	Root;Bacteria;Proteobacteria;Alphaproteobacteria
52	0	0	0	21	Root;Bacteria;Proteobacteria;Alphaproteobacteria
53	8	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
54	0	0	3	4	Root;Bacteria
55	0	0	16	1	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
61	126	53	0	15	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales;Alteromonadaceae
62	0	0	88	113	Root;Bacteria;Proteobacteria;Gammaproteobacteria
64	0	0	30	6	Root;Bacteria;Proteobacteria;Gammaproteobacteria
65	2	0	0	12	Root;Bacteria
67	0	0	0	11	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
68	2	0	0	0	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales
69	0	0	21	0	Root;Bacteria;Proteobacteria
72	0	12	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
73	16	0	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
74	0	0	0	14	Root;Bacteria;Proteobacteria;Alphaproteobacteria
84	0	0	21	48	Root;Bacteria;Proteobacteria;Gammaproteobacteria
91	11	2	11	22	Root;Bacteria;Proteobacteria
92	16	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
95	0	0	17	4	Root;Bacteria;Proteobacteria
100	0	0	0	3	Root;Bacteria
101	3	13	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Tenacibaculum
114	9	0	0	0	Root;Bacteria;Proteobacteria;Deltaproteobacteria;Bdellovibrionales;Bacteriovoraceae
115	101	37	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
117	0	0	0	22	Root;Bacteria
120	383	117	14	12	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Oceanospirillales;Alcanivoraceae;Alcanivorax
124	0	8	0	0	Root;Bacteria;Proteobacteria
127	0	0	7	1	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rickettsiales;Incertae sedis 4;Caedibacter
130	12	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
133	0	0	23	1	Root;Bacteria
135	0	0	0	2	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
139	21	0	0	58	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae;Loktanela
144	0	0	0	2	Root;Bacteria;Proteobacteria
150	1	0	2	1	Root;Bacteria
154	6	0	0	0	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
155	2	0	0	0	Root;Bacteria
162	115	0	83	16	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
163	63	4	22	14	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales
164	0	0	0	43	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
168	0	0	0	4	Root;Bacteria;Proteobacteria;Gammaproteobacteria
174	0	0	0	16	Root;Bacteria;Proteobacteria;Gammaproteobacteria
184	0	0	286	107	Root;Bacteria
187	117	38	20	22	Root;Bacteria;Proteobacteria;Alphaproteobacteria
199	0	0	0	10	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Oceanospirillales;Hahellaceae
207	0	0	0	31	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
209	0	0	1	6	Root;Bacteria;Proteobacteria;Alphaproteobacteria
215	0	0	0	4	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales
217	36	16	27	115	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
232	0	0	19	0	Root;Bacteria;Proteobacteria
233	7	0	0	0	Root;Bacteria
237	31	0	143	0	Root;Bacteria;Proteobacteria
240	0	0	0	3	Root;Bacteria
242	0	0	3	4	Root;Bacteria
246	0	4	0	1	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Thiotrichales;Francisellaceae;Francisella
247	0	0	17	0	Root;Bacteria;Proteobacteria
249	3656	163	1539	451	Root;Bacteria
251	0	0	8	0	Root;Bacteria;Proteobacteria
253	1	0	247	114	Root;Bacteria
254	0	0	122	0	Root;Bacteria
256	0	0	0	6	Root;Bacteria
257	6	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
262	0	0	0	25	Root;Bacteria

#OTU ID	DNA25	RNA25	DNA100	RNA100	Consensus Lineage
263	0	0	0	4	Root;Bacteria
268	0	0	1	8	Root;Bacteria
269	0	0	3	0	Root;Bacteria
270	0	0	17	49	Root;Bacteria
275	0	0	1	1	Root;Bacteria;Proteobacteria;Deltaproteobacteria;Bdellovibrionales;Bacteriovoraceae; Bacteriovorax
278	0	0	0	32	Root;Bacteria
284	0	0	29	3	Root;Bacteria
285	5	0	0	77	Root;Bacteria
287	75	33	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
288	0	41	0	48	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
289	0	0	2	1	Root;Bacteria;Proteobacteria
291	0	0	59	21	Root;Bacteria
296	0	0	0	30	Root;Bacteria;Proteobacteria;Alphaproteobacteria
297	444	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
298	3	0	0	0	Root;Bacteria
302	0	0	0	11	Root;Bacteria
308	15	0	0	0	Root;Bacteria;Proteobacteria
316	0	0	1	1	Root;Bacteria
317	57	110	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
318	0	0	5	35	Root;Bacteria
324	0	0	0	3	Root;Bacteria
325	0	0	0	2	Root;Bacteria;Proteobacteria
326	0	0	22	24	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales
327	14	0	31	0	Root;Bacteria;Proteobacteria
328	0	0	0	39	Root;Bacteria;Proteobacteria;Gammaproteobacteria
329	11	0	0	0	Root;Bacteria
332	4	0	183	44	Root;Bacteria;Actinobacteria;Actinobacteria;Actinobacteridae;Actinomycetales
333	0	0	0	54	Root;Bacteria
335	1764	18	639	18	Root;Bacteria;Proteobacteria
339	0	0	0	2	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales;Colwelliaceae
340	0	0	0	2	Root;Bacteria;Proteobacteria
341	0	0	0	2	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
343	0	0	21	80	Root;Bacteria;Proteobacteria;Alphaproteobacteria
347	347	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
348	0	0	28	62	Root;Bacteria
352	8	3	86	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
355	4	0	0	1	Root;Bacteria;Proteobacteria
359	0	0	1	10	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
361	3	0	0	0	Root;Bacteria;Proteobacteria
364	0	2	94	164	Root;Bacteria
365	6	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales
367	0	0	4	0	Root;Bacteria
373	461	24	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhizobiales
381	0	2	0	0	Root;Bacteria;Proteobacteria
382	157	0	6	0	Root;Bacteria;Proteobacteria
383	0	0	2	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
384	0	28	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
386	0	0	0	8	Root;Bacteria
388	35	27	0	3	Root;Bacteria;Proteobacteria;Alphaproteobacteria
389	439	9	51	5	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
390	0	0	394	325	Root;Bacteria;Proteobacteria
391	0	0	16	0	Root;Bacteria
393	0	30	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
398	0	0	13	12	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
399	1470	164	0	17	Root;Bacteria;Proteobacteria;Gammaproteobacteria
400	0	0	119	204	Root;Bacteria
402	22	0	0	8	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales
403	0	0	39	1	Root;Bacteria
404	295	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
408	0	0	10	14	Root;Bacteria
413	0	0	5	0	Root;Bacteria;Chlamydiae;Chlamydiae;Chlamydiales
415	268	0	13	10	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
426	103	0	0	0	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
428	0	0	0	3	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae;Paracoccus
430	0	0	0	14	Root;Bacteria
432	0	0	0	69	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
433	3	0	0	1	Root;Bacteria;Firmicutes;"Bacilli";Bacillales;Bacillaceae;"Bacillaceae 1";Bacillus;Bacillus d
435	0	0	5	0	Root;Bacteria;Proteobacteria
440	12	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
441	0	0	0	5	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
447	0	2	16	103	Root;Bacteria;Proteobacteria
448	69	0	198	0	Root;Bacteria;Proteobacteria
452	3	0	0	0	Root;Bacteria
458	24	16	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
460	0	0	61	12	Root;Bacteria;Proteobacteria;Alphaproteobacteria
461	45	18	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
462	369	0	7	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria

#OTU ID	DNA25	RNA25	DNA100	RNA100	Consensus Lineage
466	0	0	25	23	Root;Bacteria
470	10	0	0	0	Root;Bacteria
471	0	16	0	0	Root;Bacteria
475	0	0	0	7	Root;Bacteria;Proteobacteria
476	0	0	36	30	Root;Bacteria
477	0	0	9	89	Root;Bacteria
479	0	0	4	0	Root;Bacteria;Proteobacteria
480	3	1	0	0	Root;Bacteria
481	85	0	0	0	Root;Bacteria;Proteobacteria
489	81	0	0	0	Root;Bacteria
493	570	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
494	47	0	0	0	Root;Bacteria;Proteobacteria
499	0	0	282	45	Root;Bacteria;Proteobacteria
508	3	0	0	0	Root;Bacteria;Acidobacteria;Acidobacteria;Acidobacteriales;Acidobacteriaceae;Gp6
513	0	0	4	0	Root;Bacteria
514	0	0	35	16	Root;Bacteria
516	2	0	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria
521	0	0	216	110	Root;Bacteria
522	16	0	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
525	0	0	66	0	Root;Bacteria;Proteobacteria
527	2	8	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhizobiales
529	22	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
532	39	0	0	2	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
533	50	0	1	0	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
534	10	0	0	0	Root;Bacteria
535	684	6	48	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
537	0	0	0	5	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales;Incertae sedis 7; Marinobacter
538	0	0	46	0	Root;Bacteria;Proteobacteria
542	7	0	0	27	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
544	0	2	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
549	0	0	0	15	Root;Bacteria;Proteobacteria;Alphaproteobacteria
550	45	42	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Oceanospirillales
551	0	0	0	3	Root;Bacteria;Proteobacteria
553	0	0	44	0	Root;Bacteria;Proteobacteria
555	0	0	39	93	Root;Bacteria;Proteobacteria
556	0	0	0	5	Root;Bacteria
557	0	0	2	45	Root;Bacteria;Proteobacteria
559	11	0	0	94	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
568	0	0	30	24	Root;Bacteria;Proteobacteria;Alphaproteobacteria
570	0	0	67	0	Root;Bacteria;Proteobacteria
571	0	0	0	62	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
572	23	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
576	29	13	56	82	Root;Bacteria;Proteobacteria
581	0	0	51	49	Root;Bacteria
582	40	43	0	102	Root;Bacteria
589	0	0	81	33550	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
592	16	0	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
601	0	22	0	0	Root;Bacteria
609	3	0	0	0	Root;Bacteria;Lentisphaerae;Lentisphaerae
611	0	0	38	146	Root;Bacteria;Proteobacteria;Alphaproteobacteria
612	52	0	0	0	Root;Bacteria
614	2	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
617	0	2	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
621	2	0	0	0	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Crenotrichaceae;Terrimonas
624	6	0	0	0	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Flexibacteraceae;Microscilla
629	5	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
635	96	81	39	1	Root;Bacteria
637	0	0	176	0	Root;Bacteria;Proteobacteria
640	3	26	14	12	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
642	0	0	2	7	Root;Bacteria;Proteobacteria;Gammaproteobacteria
644	44	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
651	0	0	132	35	Root;Bacteria;Proteobacteria;Gammaproteobacteria
656	0	0	9	14	Root;Bacteria;Proteobacteria;Alphaproteobacteria
660	52	0	0	71	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
661	5	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
668	37	69	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
669	0	0	30	10	Root;Bacteria
670	0	1	0	15	Root;Bacteria;Proteobacteria;Betaproteobacteria
671	82	109	0	6	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae; Sphingobium
672	10	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
674	0	0	3	1	Root;Bacteria
677	0	0	0	22	Root;Bacteria
687	0	0	3	0	Root;Bacteria
688	6	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
694	5	0	10	43	Root;Bacteria;Proteobacteria
697	0	0	0	2	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
699	0	0	0	12	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Oceanospirillales;Alcanivoraceae;Alcanivorax

#OTU ID	DNA25	RNA25	DNA100	RNA100	Consensus Lineage
702	903	18	6	1	Root;Bacteria;Proteobacteria;Alphaproteobacteria
705	0	0	0	6	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
706	0	0	0	4	Root;Bacteria;Proteobacteria
708	0	0	4	26	Root;Bacteria
711	0	0	0	9	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
712	0	0	124	11	Root;Bacteria;Proteobacteria;Alphaproteobacteria
715	5	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
724	3	0	0	0	Root;Bacteria
725	0	0	0	323	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
726	0	225	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
727	0	0	18	0	Root;Bacteria;Proteobacteria
729	13	0	0	0	Root;Bacteria;Proteobacteria
730	42	12	0	5	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales
731	14	0	0	0	Root;Bacteria
734	10	0	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Cryomorpaceae
736	0	0	14	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
737	0	0	94	288	Root;Bacteria
738	19	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
742	3	0	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
743	17	0	1	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
744	0	0	0	7	Root;Bacteria;Proteobacteria
750	0	0	63	6	Root;Bacteria
752	0	15	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
759	479	0	1763	33	Root;Bacteria;Proteobacteria
763	23	0	2	11	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Legionellales;Coxiellaceae;Coxiella
766	0	0	0	3	Root;Bacteria
768	0	0	7	4	Root;Bacteria;Proteobacteria;Alphaproteobacteria
769	0	0	0	2	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae;Thalassobius
772	0	0	2	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
774	297	49	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
777	0	0	13	4	Root;Bacteria;Proteobacteria
784	0	15	4	0	Root;Bacteria;Proteobacteria
785	0	5	0	12	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
787	14	0	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
796	0	0	0	15	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
799	12	0	24	27	Root;Bacteria;Proteobacteria;Alphaproteobacteria
800	8	0	0	0	Root;Bacteria
805	0	0	0	3	Root;Bacteria
806	0	0	0	4	Root;Bacteria;Proteobacteria
808	0	0	1713	209	Root;Bacteria;Proteobacteria
812	0	0	15	0	Root;Bacteria
813	1847	164	918	909	Root;Bacteria
815	54	15	0	0	Root;Bacteria
817	19	0	81	57	Root;Bacteria;Proteobacteria
819	0	0	14	1	Root;Bacteria;Proteobacteria;Alphaproteobacteria
820	21	0	14	45	Root;Bacteria;Proteobacteria;Gammaproteobacteria
821	423	62	73	207	Root;Bacteria;Bacteroidetes
822	0	0	0	10	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales
823	0	0	12	98	Root;Bacteria;Proteobacteria;Alphaproteobacteria
824	783	51	53	25	Root;Bacteria
839	54	0	77	0	Root;Bacteria;Proteobacteria
841	6	0	22	17	Root;Bacteria;Proteobacteria
845	0	0	0	4	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
846	0	0	44	59	Root;Bacteria
847	0	0	656	273	Root;Bacteria
852	0	0	13	25	Root;Bacteria
853	78	0	15	268	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Vibrionales;Vibrionaceae;Vibrio
854	0	0	26	28	Root;Bacteria
856	0	0	0	27	Root;Bacteria
857	0	0	115	58	Root;Bacteria;Actinobacteria;Actinobacteria
858	249	0	95	0	Root;Bacteria;Proteobacteria
863	0	0	22	53	Root;Bacteria
867	1	0	7	13	Root;Bacteria;Proteobacteria
870	28	0	0	0	Root;Bacteria;Proteobacteria
871	0	0	0	5	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
876	8	0	0	7	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
878	0	0	0	2	Root;Bacteria
880	0	0	2	0	Root;Bacteria
882	0	0	0	6	Root;Bacteria;Proteobacteria;Alphaproteobacteria
887	0	0	9	19	Root;Bacteria;Proteobacteria
888	0	0	0	5	Root;Bacteria
893	47	0	0	0	Root;Bacteria;Proteobacteria
896	2	0	0	0	Root;Bacteria;Proteobacteria
898	0	0	0	11	Root;Bacteria;Proteobacteria;Gammaproteobacteria
900	0	0	0	27	Root;Bacteria;Proteobacteria
904	25	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
906	2	0	0	0	Root;Bacteria;Proteobacteria

#OTU ID	DNA25	RNA25	DNA100	RNA100	Consensus Lineage
909	13	0	3	0	Root;Bacteria;Proteobacteria
911	61	0	37	1019	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
913	180	9	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
914	0	13	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
915	8	1	0	0	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Saprospiraceae;Saprospira
924	13	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
932	2	0	0	1	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales
933	0	15	0	58	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
934	394	107	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
935	3	2	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
937	0	0	31	131	Root;Bacteria;Proteobacteria;Alphaproteobacteria
938	7	0	0	0	Root;Bacteria;Proteobacteria
942	209	108	13	102	Root;Bacteria;Proteobacteria
944	0	0	27	1	Root;Bacteria
947	0	0	54	10	Root;Bacteria;Proteobacteria;Alphaproteobacteria
955	8	1	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
957	0	0	0	8	Root;Bacteria;Proteobacteria
958	8122	0	33	0	Root;Bacteria;Proteobacteria
960	0	8	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
965	0	0	1	6	Root;Bacteria
973	0	0	3	0	Root;Bacteria
974	4	292	26	551	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
978	23	0	46	8	Root;Bacteria;Proteobacteria;Gammaproteobacteria
993	0	0	83	0	Root;Bacteria
994	0	0	0	4	Root;Bacteria
996	0	0	28	12	Root;Bacteria
998	0	0	0	8	Root;Bacteria;Proteobacteria
1001	49	0	19	0	Root;Bacteria;Proteobacteria
1003	65	131	9	68	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales;Pseudoalteromonadaceae;Pseudoalteromonas
1006	0	0	15	237	Root;Bacteria;Proteobacteria
1011	0	0	11	0	Root;Bacteria;Proteobacteria
1014	7	0	14	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1015	0	0	0	6	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1018	2	2	0	0	Root;Bacteria
1022	48	133	13	1723	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales;Alteromonadaceae;Alteromonas
1026	23	6	15	17	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1027	0	0	0	118	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1028	0	0	4	0	Root;Bacteria
1029	6	0	0	4	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales;Colwelliaceae;Thalassomonas
1033	0	0	20	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1035	0	0	0	12	Root;Bacteria
1037	0	0	36	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales
1044	24	1	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1051	1	14	0	0	Root;Bacteria
1059	0	0	0	2	Root;Bacteria;Proteobacteria
1060	358	84	212	425	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
1063	274	9	0	0	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Crenotrichaceae;Balneola
1065	0	0	0	7	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1068	346	12	16	2	Root;Bacteria
1069	0	0	20	3	Root;Bacteria;Proteobacteria
1072	177	0	0	0	Root;Bacteria;Proteobacteria
1074	0	0	161	21	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1076	1166	0	49	1	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1079	23	1	30	21	Root;Bacteria;Proteobacteria
1082	0	0	0	14	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Oceanospirillales
1087	0	0	0	3	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales
1092	17	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales;Shewanellaceae;Shewanella
1097	7	2	30	44	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1098	2	0	0	0	Root;Bacteria
1103	2	0	18	26	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1106	6	0	0	1	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Tenacibaculum
1107	9	0	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
1112	8	0	0	0	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
1116	3	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1118	0	0	12	14	Root;Bacteria;Planctomycetes;Planctomycetacia;Planctomycetales;Planctomycetaceae
1120	4	0	0	0	Root;Bacteria
1124	6	0	0	0	Root;Bacteria
1129	0	0	7	20	Root;Bacteria
1133	0	6	0	0	Root;Bacteria;Proteobacteria
1136	2	0	0	0	Root;Bacteria
1137	81	0	0	0	Root;Bacteria;Proteobacteria
1139	68	18	37	78	Root;Bacteria;Proteobacteria
1142	12	0	4	0	Root;Bacteria;Proteobacteria
1143	87	52	1	0	Root;Bacteria;Proteobacteria;Betaproteobacteria
1145	217	109	0	360	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1146	0	0	6	1	Root;Bacteria

#OTU ID	DNA25	RNA25	DNA100	RNA100	Consensus Lineage
1149	2	0	0	0	Root;Bacteria;Proteobacteria
1154	0	0	2	6	Root;Bacteria;Proteobacteria
1156	23	37	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria
1157	0	0	6	0	Root;Bacteria;Proteobacteria
1159	0	0	0	39	Root;Bacteria
1161	0	3	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1166	0	0	2	29	Root;Bacteria;Proteobacteria;Betaproteobacteria;Burkholderiales
1168	0	0	176	36	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Flexibacteraceae
1178	0	0	12	4	Root;Bacteria;Proteobacteria
1180	0	0	2	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1184	11	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1187	7	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales
1188	993	0	0	0	Root;Bacteria
1191	5	0	33	2	Root;Bacteria;Proteobacteria;Deltaproteobacteria;Bdellovibrionales;Bacteriovoraceae; Bacteriovorax
1196	0	0	0	9	Root;Bacteria
1198	0	0	0	4	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1200	0	0	0	3	Root;Bacteria
1203	1	0	2	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1204	39	0	14	0	Root;Bacteria;Proteobacteria
1210	22	11	0	0	Root;Bacteria
1211	0	0	138	27	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
1212	0	0	10	8	Root;Bacteria
1215	0	0	1	1	Root;Bacteria;Proteobacteria
1218	2781	44	42	4	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Oceanospirillales
1220	0	0	0	15	Root;Bacteria
1228	0	0	550	842	Root;Bacteria
1229	0	0	262	14	Root;Bacteria;Proteobacteria
1233	0	0	2	0	Root;Bacteria;Chlamydiae;Chlamydiae;Chlamydiales;Simkaniaceae;Simkania
1235	15	0	0	0	Root;Bacteria;Proteobacteria
1237	1	0	16	29	Root;Bacteria;Proteobacteria;Betaproteobacteria
1246	0	0	0	14	Root;Bacteria;Proteobacteria
1247	0	398	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1248	0	0	71	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1251	62	34	0	85	Root;Bacteria
1255	48	6	18	2	Root;Bacteria
1259	13	0	24	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
1263	106	0	43	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1265	0	1	0	1	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales
1269	0	0	0	3	Root;Bacteria;Proteobacteria
1274	699	33	35	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1280	0	0	0	5	Root;Bacteria
1281	358	0	27	5	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
1289	14	0	4	0	Root;Bacteria
1298	0	0	0	3	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1300	11	0	0	138	Root;Bacteria;Cyanobacteria;Cyanobacteria
1306	374	160	79	130	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1314	5929	153	962	128	Root;Bacteria;Proteobacteria
1315	0	0	0	7	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1316	2	0	1	0	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Flexibacteraceae
1323	0	0	0	26	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1327	0	0	0	8	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1329	0	0	0	46	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1335	1	1	0	1	Root;Bacteria;Proteobacteria
1339	4	0	1	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1344	209	58	82	156	Root;Bacteria;Proteobacteria
1345	0	0	155	187	Root;Bacteria
1349	0	0	0	12	Root;Bacteria
1351	12	0	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1354	852	43	0	0	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
1357	4	0	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
1360	0	0	0	2	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Cryomorphaeae
1364	679	0	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
1365	2608	78	23	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1369	0	132	0	0	Root;Bacteria;Proteobacteria
1370	4	0	0	0	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
1373	19	0	0	0	Root;Bacteria
1380	2	0	0	0	Root;Bacteria
1384	6	2	0	0	Root;Bacteria;Proteobacteria
1395	1194	369	30	25	Root;Bacteria;Proteobacteria
1397	20	0	0	23	Root;Bacteria
1398	0	5	0	53	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Oceanospirillales;Alcanivoraceae;Alcanivorax
1405	136	8	4	1	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Flexibacteraceae
1406	56	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1410	0	0	0	9	Root;Bacteria
1419	4	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1421	14	0	41	33	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1425	0	0	262	2100	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa

#OTU ID	DNA25	RNA25	DNA100	RNA100	Consensus Lineage
1427	0	0	6	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1430	3	0	0	0	Root;Bacteria;Proteobacteria
1432	1152	0	54	4	Root;Bacteria
1436	0	0	0	2	Root;Bacteria
1437	0	0	25	66	Root;Bacteria
1442	12	0	0	0	Root;Bacteria;Proteobacteria
1445	1	0	0	1	Root;Bacteria
1449	22	4	0	0	Root;Bacteria;Chlamydiae;Chlamydiae;Chlamydiales;Simkaniaceae;Simkania
1452	0	0	36	23	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Chromatiales;Ectothiorhodospiraceae
1454	0	0	9	0	Root;Bacteria;Proteobacteria
1455	0	0	0	13	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1457	27	7	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1461	0	0	0	2	Root;Bacteria
1463	6	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1468	696	77	0	221	Root;Bacteria
1477	0	0	49	55	Root;Bacteria
1478	0	0	0	8	Root;Bacteria;Proteobacteria
1480	0	0	0	153	Root;Bacteria;Proteobacteria
1481	0	0	6	0	Root;Bacteria
1482	33	0	0	0	Root;Bacteria;Proteobacteria
1488	15	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Vibrionales;Vibrionaceae;Vibrio
1491	0	0	34	115	Root;Bacteria
1492	0	20	0	0	Root;Bacteria
1495	1	0	1	0	Root;Bacteria
1496	0	0	1	4	Root;Bacteria;Chloroflexi;Anaerolineae
1503	13	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1506	3171	46	14949	646	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1514	8	0	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
1515	4	0	0	0	Root;Bacteria;Proteobacteria
1516	0	0	0	2	Root;Bacteria;Proteobacteria;Betaproteobacteria;Burkholderiales
1517	5	0	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Polaribacter
1519	0	0	12	3	Root;Bacteria;Proteobacteria
1525	3	1	0	0	Root;Bacteria;Proteobacteria
1530	0	0	0	9	Root;Bacteria
1534	54	0	157	0	Root;Bacteria
1538	13	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1541	1252	224	66	143	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1545	0	0	75	398	Root;Bacteria
1546	0	4	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1553	0	0	7	44	Root;Bacteria;Proteobacteria
1554	4	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1561	2	0	0	0	Root;Bacteria;Proteobacteria
1568	0	0	70	63	Root;Bacteria
1570	31	0	40	0	Root;Bacteria;Proteobacteria
1571	49	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1574	4	0	0	0	Root;Bacteria;Proteobacteria
1575	6	0	0	0	Root;Bacteria;Proteobacteria
1582	0	14	0	56	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1583	0	0	0	34	Root;Bacteria
1587	31	0	23	47	Root;Bacteria
1588	0	0	17	14	Root;Bacteria;Proteobacteria
1591	0	0	0	4	Root;Bacteria
1592	0	8	0	0	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Flexibacteraceae;Roseivirga
1595	0	0	103	320	Root;Bacteria
1596	10824	163	176	1	Root;Bacteria;Proteobacteria
1597	0	3	43	17	Root;Bacteria;Proteobacteria
1602	2	1	0	5	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Flexibacteraceae;Roseivirga
1607	0	0	0	6	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Vibrionales;Vibrionaceae;Benecke
1609	4	0	0	36	Root;Bacteria
1610	0	0	0	33	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1611	0	0	14	3	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1616	4	0	481	196	Root;Bacteria
1621	0	0	10	28	Root;Bacteria
1623	0	0	0	2	Root;Bacteria;Proteobacteria
1624	23	0	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
1626	2	0	0	0	Root;Bacteria;Proteobacteria
1627	0	0	7	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1631	187	0	11	346	Root;Bacteria
1639	42	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1642	3	0	0	0	Root;Bacteria
1643	65	0	218	323	Root;Bacteria
1644	47	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1650	2	1	0	0	Root;Bacteria;Planctomycetes;Planctomycetacia;Planctomycetales;Planctomycetaceae
1651	0	0	0	5	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1653	0	0	0	3	Root;Bacteria
1656	17	0	0	0	Root;Bacteria;Proteobacteria
1658	12	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria

#OTU ID	DNA25	RNA25	DNA100	RNA100	Consensus Lineage
1661	0	0	0	6	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1664	1364	126	58	107	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
1665	0	3	0	0	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Flexibacteraceae
1666	0	0	10	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
1668	0	0	44	0	Root;Bacteria;Proteobacteria
1669	280	0	146	0	Root;Bacteria;Proteobacteria
1670	93	41	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1671	3	1	0	0	Root;Bacteria;Proteobacteria
1676	4	0	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Cryomorphaeae
1682	0	0	210	32	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
1685	0	0	0	46	Root;Bacteria
1686	594	117	0	17	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1691	0	15	0	0	Root;Bacteria
1692	0	8	0	0	Root;Bacteria
1694	0	0	26	88	Root;Bacteria
1695	0	0	0	2	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1697	137	0	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1698	0	0	0	21	Root;Bacteria
1699	0	0	12	111	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Subdivision 3; Subdivision 3_genera_incertae_sedis
1704	0	0	123	6	Root;Bacteria;Proteobacteria
1705	0	0	85	55	Root;Bacteria
1710	536	0	157	642	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1711	0	0	20	56	Root;Bacteria
1712	0	0	17	87	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1713	31	1	1	0	Root;Bacteria;Proteobacteria
1718	0	0	0	4	Root;Bacteria
1719	0	0	8	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1721	0	0	547	24	Root;Bacteria;Proteobacteria
1722	0	0	6	4	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1724	0	0	0	3	Root;Bacteria
1725	3	0	0	0	Root;Bacteria
1730	0	0	0	13	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
1734	19	1	0	1	Root;Bacteria;Proteobacteria;Deltaproteobacteria;Bdellovibrionales;Bacteriovoraceae; Bacteriovorax
1737	17	1	91	59	Root;Bacteria;Proteobacteria
1742	380	86	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1747	0	0	9	0	Root;Bacteria
1757	0	0	29	4	Root;Bacteria;Planctomycetes;Planctomycetacia;Planctomycetales;Planctomycetaceae
1759	5	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1760	0	0	0	18	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1762	0	0	0	2	Root;Bacteria
1765	0	0	0	6	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1768	0	0	0	5	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1772	3	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1773	0	0	0	72	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1776	4	0	0	0	Root;Bacteria;Proteobacteria
1778	405	7	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1782	0	0	225	0	Root;Bacteria
1789	0	0	0	25	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Ulvibacter
1790	0	0	210	32	Root;Bacteria
1791	0	0	0	3	Root;Bacteria
1793	0	0	0	13	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1796	0	0	0	5	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1798	0	0	0	4	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1799	0	0	0	17	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1804	0	15	0	0	Root;Bacteria
1805	30	0	1552	476	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1808	6994	27	4745	44	Root;Bacteria
1810	6	0	0	0	Root;Bacteria;Actinobacteria;Actinobacteria
1811	362	509	26	126	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
1821	0	0	11	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1823	126	1	0	2	Root;Bacteria;Proteobacteria;Deltaproteobacteria;Bdellovibrionales;Bacteriovoraceae; Bacteriovorax
1825	54	0	0	0	Root;Bacteria;Proteobacteria
1831	70	0	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1832	0	0	0	280	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1833	9	0	3	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Vibrionales;Vibrionaceae;Photobacterium
1835	0	0	153	0	Root;Bacteria;Proteobacteria
1838	1	0	2	0	Root;Bacteria;Lentisphaerae;Lentisphaerae
1840	62	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1843	6	0	1	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales;Incertae sedis 7; Saccharophagus
1844	0	0	0	10	Root;Bacteria
1853	0	0	17	9	Root;Bacteria
1858	30	0	0	0	Root;Bacteria;Proteobacteria
1863	0	0	10	16	Root;Bacteria
1866	137	40	0	0	Root;Bacteria;Proteobacteria
1868	0	0	0	82	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1874	0	0	0	31	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa

#OTU ID	DNA25	RNA25	DNA100	RNA100	Consensus Lineage
1875	0	0	0	6	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1876	0	0	132	27	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1878	0	0	0	11	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1883	3	0	72	0	Root;Bacteria
1885	6	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1894	32	0	20	152	Root;Bacteria;Proteobacteria
1896	0	0	97	66	Root;Bacteria;Proteobacteria
1897	0	0	277	95	Root;Bacteria
1902	7	0	0	0	Root;Bacteria
1903	2	0	0	0	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Flexibacteraceae
1905	0	19	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae
1910	180	0	0	0	Root;Bacteria;Proteobacteria
1913	8	0	0	0	Root;Bacteria;Proteobacteria
1915	1	0	1	1	Root;Bacteria
1918	7	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1920	0	0	6	4	Root;Bacteria
1927	0	0	0	103	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1930	0	0	8	31	Root;Bacteria;Proteobacteria
1937	0	0	4	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1944	0	0	1	9	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Flexibacteraceae
1945	2	4	0	13	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
1949	34	2	3	0	Root;Bacteria;Actinobacteria;Actinobacteria;Actinobacteridae;Actinomycetales
1952	176	0	0	0	Root;Bacteria;Proteobacteria
1953	2	0	0	0	Root;Bacteria
1960	206	0	59	10	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1961	336	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1965	0	0	35	6	Root;Bacteria;Proteobacteria
1966	176	3	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1968	2794	40	336	21	Root;Bacteria;Proteobacteria;Alphaproteobacteria
1969	0	0	0	5	Root;Bacteria;Proteobacteria;Deltaproteobacteria
1975	0	0	4	9	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1980	0	0	1132	0	Root;Bacteria;Proteobacteria
1984	253	10	14	11	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales
1986	0	0	20	21	Root;Bacteria
1990	164	148	0	28	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Oceanospirillales
1991	4	0	0	0	Root;Bacteria
1993	6765	184	1318	259	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1997	0	0	13	35	Root;Bacteria;Proteobacteria
1998	390	99	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
1999	0	0	3	19	Root;Bacteria
2001	5	0	10	2	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2002	0	0	21	50	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2003	2	0	0	0	Root;Bacteria;Proteobacteria
2006	0	0	2	35	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2008	52	17	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
2009	0	0	23	24	Root;Bacteria
2011	1226	194	0	0	Root;Bacteria
2016	415	12	128	26	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2017	0	0	1	11	Root;Bacteria
2022	811	255	0	11	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2028	0	0	0	41	Root;Bacteria
2033	0	0	8	0	Root;Bacteria
2034	2	1	0	0	Root;Bacteria;Proteobacteria
2036	0	0	0	3	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2037	0	0	0	14	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2040	0	0	0	2	Root;Bacteria;Lentisphaerae;Lentisphaerae;Lentisphaerales;Lentisphaeraceae;Lentisphaera
2041	55	0	0	0	Root;Bacteria
2050	0	0	133	138	Root;Bacteria
2052	0	0	9	20	Root;Bacteria
2055	0	0	24	0	Root;Bacteria;Proteobacteria
2057	135	129	34	268	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodospirillales
2070	0	0	0	9	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2075	93	0	61	76	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2076	496	165	58	316	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2077	0	0	0	6	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Flexibacteraceae
2086	0	0	5	0	Root;Bacteria
2093	0	0	0	5	Root;Bacteria
2096	22	24	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
2098	5794	36	9661	288	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2104	0	0	2	67	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2105	118	12	0	0	Root;Bacteria;Actinobacteria;Actinobacteria
2107	18	2	1	24	Root;Bacteria;Proteobacteria
2108	0	0	0	3	Root;Bacteria
2112	0	0	0	9	Root;Bacteria
2115	0	0	96	9	Root;Bacteria;Proteobacteria
2116	0	0	57	902	Root;Bacteria;Proteobacteria
2120	0	9	0	0	Root;Bacteria;Proteobacteria

#OTU ID	DNA25	RNA25	DNA100	RNA100	Consensus Lineage
2133	0	0	0	18	Root;Bacteria
2135	2	0	0	0	Root;Bacteria;Proteobacteria
2137	31622	321	0	0	Root;Bacteria;Proteobacteria
2140	1	0	3	0	Root;Bacteria;Proteobacteria
2146	29	0	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2147	0	0	0	2	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2148	580	51	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2149	0	0	0	14	Root;Bacteria;Proteobacteria
2154	0	0	103	238	Root;Bacteria
2155	5803	241	228	158	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2158	0	0	10	0	Root;Bacteria
2159	252	3	11	0	Root;Bacteria;Proteobacteria
2160	0	0	4453	0	Root;Bacteria;Proteobacteria
2164	0	0	0	2	Root;Bacteria
2165	0	0	2	9	Root;Bacteria
2170	1123	467	86	318	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
2172	0	0	11	41	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales
2173	0	0	49	125	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Oceanospirillales
2174	139	3	224	18	Root;Bacteria
2175	68	6	0	28	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2179	0	0	128	62	Root;Bacteria;Proteobacteria
2180	8	1	0	0	Root;Bacteria
2182	19	0	394	100	Root;Bacteria
2184	0	0	4	0	Root;Bacteria
2185	0	24	0	170	Root;Bacteria;Proteobacteria
2187	9	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2188	33	2	0	0	Root;Bacteria;Planctomycetes;Planctomycetacia;Planctomycetales;Planctomycetaceae
2190	3	0	0	20	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2192	0	0	0	7	Root;Bacteria
2195	312	73	126	643	Root;Bacteria
2200	44	0	171	619	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2206	0	0	28	18	Root;Bacteria
2207	266	0	8	0	Root;Bacteria;Proteobacteria
2209	968	46	90	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
2211	1	0	4	0	Root;Bacteria
2213	0	0	0	6	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2217	4	0	0	0	Root;Bacteria;Proteobacteria
2218	0	0	2	0	Root;Bacteria;Firmicutes;"Bacilli";Bacillales;"Paenibacillaceae";"Paenibacillaceae 1";Paenibacillus
2229	1	1	0	0	Root;Bacteria;Proteobacteria
2239	0	0	15	0	Root;Bacteria;Proteobacteria
2240	24	0	0	0	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
2243	0	0	2	5	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2245	0	0	31	41	Root;Bacteria
2248	0	0	4	0	Root;Bacteria;Proteobacteria
2252	0	0	0	861	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2253	0	0	0	9	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2256	19	0	0	0	Root;Bacteria;Proteobacteria
2260	0	1	0	1	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Saprospiraceae
2265	4	10	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
2277	0	0	0	16	Root;Bacteria;Proteobacteria
2278	14	0	0	0	Root;Bacteria;Proteobacteria
2282	5	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2283	9	15	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2284	19	0	3	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2286	0	3	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
2287	0	0	0	8	Root;Bacteria
2290	11	0	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2292	99	54	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2293	28	0	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Cryomorphaeae;Fluviicola
2296	0	0	51	71	Root;Bacteria
2300	0	0	3	0	Root;Bacteria
2301	6	0	1	17	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2303	2566	21	654	22	Root;Bacteria;Proteobacteria
2306	0	0	34	26	Root;Bacteria
2308	0	0	6	36	Root;Bacteria;Proteobacteria
2310	12	1	0	0	Root;Bacteria;Proteobacteria
2312	0	0	0	29	Root;Bacteria
2321	0	0	58	0	Root;Bacteria;Proteobacteria
2326	74	35	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Tenacibaculum
2335	1291	42	125	48	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Flexibacteraceae
2337	0	0	0	2502	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2339	324	0	3167	147	Root;Bacteria
2343	6	0	40	2617	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2346	0	0	7	2	Root;Bacteria;Proteobacteria
2347	0	0	23	27	Root;Bacteria
2348	1	0	1	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2355	0	0	0	1256	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa

#OTU ID	DNA25	RNA25	DNA100	RNA100	Consensus Lineage
2358	0	0	580	227	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2359	1	0	58	0	Root;Bacteria
2360	11	0	132	26	Root;Bacteria;Proteobacteria
2361	18	19	0	10	Root;Bacteria
2362	0	0	0	17	Root;Bacteria
2367	0	0	0	5	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2368	0	0	0	7	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2372	0	0	0	76	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2377	0	0	18	0	Root;Bacteria
2378	0	0	0	4	Root;Bacteria
2379	25	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2381	0	0	14	17	Root;Bacteria
2382	0	0	6	0	Root;Bacteria
2383	25	0	32	39	Root;Bacteria;Proteobacteria;Deltaproteobacteria;Desulfuromonales;Geobacteraceae; Geopsychrobacter
2385	0	0	4	8	Root;Bacteria
2386	17	0	0	0	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
2389	0	0	0	2	Root;Bacteria;Proteobacteria
2392	0	0	0	37	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2396	13	0	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2397	0	0	0	7	Root;Bacteria
2405	0	0	8	1	Root;Bacteria;Proteobacteria
2410	3	0	0	0	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Flexibacteraceae
2411	208	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2414	17	18	0	1	Root;Bacteria;Planctomycetes;Planctomycetacia;Planctomycetales;Planctomycetaceae
2415	0	0	0	5	Root;Bacteria
2416	3	0	0	0	Root;Bacteria;Proteobacteria
2417	46	1	3	0	Root;Bacteria;Proteobacteria
2419	0	0	13	0	Root;Bacteria
2428	0	0	0	14	Root;Bacteria;Proteobacteria
2429	0	75	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
2432	3	0	0	0	Root;Bacteria;Proteobacteria
2433	16	26	0	51	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2434	0	0	12	7	Root;Bacteria
2435	0	0	5	5	Root;Bacteria;Proteobacteria
2437	0	0	0	3	Root;Bacteria;Proteobacteria
2440	387	224	31	195	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2444	0	0	3128	9686	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2446	0	0	0	5	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2453	5	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
2455	2	0	61	383	Root;Bacteria
2460	10	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Vibrionales;Vibrionaceae;Photobacterium
2461	0	0	23	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2471	7	2	85	297	Root;Bacteria
2474	58	0	57	94	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales
2475	0	0	0	2	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Legionellales;Coxiellaceae;Coxiella
2476	632	0	17	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
2482	0	0	5	1	Root;Bacteria;Proteobacteria
2483	3	0	68	59	Root;Bacteria
2484	0	0	0	58	Root;Bacteria
2487	0	0	0	15	Root;Bacteria
2489	201	22	87	114	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Cryomorpaceae
2490	61	0	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
2494	0	0	2	0	Root;Bacteria
2496	1304	36	521	68	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
2498	8	0	884	713	Root;Bacteria
2499	0	0	0	2	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales
2500	13	15	0	103	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2505	0	4	0	0	Root;Bacteria;Proteobacteria
2508	0	0	0	14	Root;Bacteria
2513	0	0	0	9	Root;Bacteria
2514	2	0	0	0	Root;Bacteria;Proteobacteria
2516	0	0	8	3	Root;Bacteria
2517	0	0	0	2	Root;Bacteria;Proteobacteria
2518	66	18	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2522	395	23	13	17	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales
2530	160	10	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
2540	0	0	25	2	Root;Bacteria;Proteobacteria
2541	0	0	0	12	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales
2549	129749	81992	29034	282498	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2554	0	0	255	45	Root;Bacteria;Proteobacteria
2559	0	0	0	2	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2563	0	0	0	4	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
2565	0	0	0	3	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2568	0	1	98	0	Root;Bacteria;Proteobacteria
2570	0	0	0	11	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2574	0	0	0	28	Root;Bacteria;Proteobacteria;Betaproteobacteria
2575	0	0	0	5	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa

#OTU ID	DNA25	RNA25	DNA100	RNA100	Consensus Lineage
2587	22	14	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales
2588	5	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2592	0	48	0	0	Root;Bacteria
2599	12	0	77	11	Root;Bacteria;Proteobacteria
2604	0	0	0	4	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2606	0	0	0	2	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2609	3	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
2611	0	7	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae
2616	0	2	0	17	Root;Bacteria;Proteobacteria
2617	0	0	2	0	Root;Bacteria;Chlamydiae;Chlamydiae;Chlamydiales
2625	0	0	0	35	Root;Bacteria
2629	0	0	0	187	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2634	0	0	2	1	Root;Bacteria;Chlamydiae;Chlamydiae;Chlamydiales;Simkaniaceae;Simkania
2638	3945	119	1379	324	Root;Bacteria;Proteobacteria
2640	0	0	4	5	Root;Bacteria;Proteobacteria
2644	0	0	32	157	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2645	3	0	0	0	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales
2649	0	0	0	36	Root;Bacteria;Proteobacteria
2650	0	0	0	4	Root;Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales
2662	0	0	80	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2663	0	0	20	41	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2673	761	177	24	101	Root;Bacteria;Proteobacteria
2676	4	0	3	7	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales
2677	0	0	37	17	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2681	7	0	0	0	Root;Bacteria;Proteobacteria
2688	0	0	0	2	Root;Bacteria;Proteobacteria;Betaproteobacteria;Burkholderiales;Alcaligenaceae;Castellaniella
2692	0	0	0	4	Root;Bacteria;Proteobacteria
2693	593	0	30	0	Root;Bacteria;Proteobacteria
2694	15	0	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2695	96	0	141	0	Root;Bacteria;Proteobacteria
2700	390	64	677	869	Root;Bacteria;Proteobacteria
2701	114	0	204	0	Root;Bacteria;Proteobacteria
2710	4	0	0	0	Root;Bacteria;Proteobacteria
2711	142	0	0	44	Root;Bacteria;Proteobacteria
2712	161	51	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Vibrionales;Vibrionaceae;Vibrio
2716	42	0	383	0	Root;Bacteria
2717	71	40	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2720	0	0	116	9	Root;Bacteria;Proteobacteria
2721	0	0	3	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2733	0	0	2	0	Root;Bacteria;Planctomycetes;Planctomycetacia;Planctomycetales;Planctomycetaceae
2736	0	0	31	22	Root;Bacteria
2738	5	0	0	0	Root;Bacteria;Proteobacteria
2740	14	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2742	0	0	76	19	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2745	0	0	0	9	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2746	36	2	17	16	Root;Bacteria
2747	7	0	0	0	Root;Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales
2751	0	0	0	7	Root;Bacteria
2760	0	0	58	153	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2766	0	0	2	23	Root;Bacteria;Proteobacteria;Betaproteobacteria;Burkholderiales
2767	0	0	0	3	Root;Bacteria
2768	57	0	571	153	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2776	0	0	57	87	Root;Bacteria;Actinobacteria;Actinobacteria
2777	236	101	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2782	61	0	2	0	Root;Bacteria;Proteobacteria
2783	12	0	0	0	Root;Bacteria;Proteobacteria
2784	0	0	38	0	Root;Bacteria;Proteobacteria;Deltaproteobacteria;Bdellovibrionales;Bacteriovoraceae; Bacteriovorax
2785	0	0	0	156	Root;Bacteria;Proteobacteria
2786	1	1	0	0	Root;Bacteria
2787	142	24	0	0	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
2789	49	0	26	0	Root;Bacteria;Proteobacteria
2795	124	100	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2797	0	0	0	25	Root;Bacteria
2804	0	0	0	4	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2805	0	0	0	4	Root;Bacteria
2806	1	0	12	0	Root;Bacteria;Proteobacteria
2809	0	0	14	11	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2815	0	0	38	25	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2816	41	0	0	0	Root;Bacteria
2817	0	0	0	11	Root;Bacteria
2820	0	0	0	10	Root;Bacteria
2823	58	1	0	0	Root;Bacteria
2825	9	0	0	0	Root;Bacteria;Proteobacteria
2826	0	0	2	0	Root;Bacteria;Proteobacteria;Deltaproteobacteria
2827	157	17	18	2	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2828	0	0	0	2	Root;Bacteria;Proteobacteria;Deltaproteobacteria;Bdellovibrionales;Bacteriovoraceae; Bacteriovorax
2833	122	0	0	1	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa

#OTU ID	DNA25	RNA25	DNA100	RNA100	Consensus Lineage
2834	0	0	0	3	Root;Bacteria
2836	2	0	0	0	Root;Bacteria;Proteobacteria
2841	0	0	4	0	Root;Bacteria
2842	10	0	0	0	Root;Bacteria;Proteobacteria
2843	123	0	0	1	Root;Bacteria;Verrucomicrobia;Verrucomicrobiae;Verrucomicrobiales;Opitutaceae;Opitutus
2849	0	0	8	19	Root;Bacteria
2851	12	0	0	0	Root;Bacteria
2852	0	0	0	16	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2853	0	0	8	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2856	0	0	0	9	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2858	0	0	16	0	Root;Bacteria;Proteobacteria
2861	0	27	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales
2867	6	0	0	0	Root;Bacteria
2869	0	0	0	52	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2870	0	0	33	0	Root;Bacteria
2871	0	0	1	1	Root;Bacteria;Planctomycetes;Planctomycetacia;Planctomycetales;Planctomycetaceae
2872	403	52	13	29	Root;Bacteria
2876	0	0	0	7	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Chromatiales;Ectothiorhodospiraceae
2878	0	0	0	41	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2880	0	11	0	0	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae;Stappia
2882	24	0	0	0	Root;Bacteria;Proteobacteria
2883	19	0	28	15	Root;Bacteria
2890	0	0	576	795	Root;Bacteria
2892	0	0	64	24	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2894	8	0	0	0	Root;Bacteria
2904	4	1	19	3	Root;Bacteria;Planctomycetes;Planctomycetacia;Planctomycetales;Planctomycetaceae
2905	0	0	6	0	Root;Bacteria
2910	4	5	64	49	Root;Bacteria;Proteobacteria
2911	0	0	96	286	Root;Bacteria
2913	0	15	0	0	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family VIII;GpVIII
2915	8	0	0	26	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2916	0	0	54	48	Root;Bacteria
2918	7	0	35	24	Root;Bacteria
2922	0	0	55	14	Root;Bacteria
2924	0	0	4	5	Root;Bacteria;Proteobacteria;Alphaproteobacteria
2929	0	17	0	11	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhodospirillales;Rhodospirillaceae;Thalassospira
2932	10	1	0	0	Root;Bacteria;Proteobacteria
2933	0	0	0	299	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2934	2	0	0	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2940	0	0	1	1	Root;Bacteria
2946	4	0	0	0	Root;Bacteria;Proteobacteria
2948	0	0	68	43	Root;Bacteria
2949	0	0	0	6	Root;Bacteria;Proteobacteria;Alphaproteobacteria;Rhizobiales;Hyphomicrobiaceae;Devosia
2953	0	0	75	2	Root;Bacteria
2954	0	0	0	56	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2957	0	0	151	0	Root;Bacteria;Proteobacteria
2960	0	0	0	8	Root;Bacteria;Proteobacteria;Gammaproteobacteria;Alteromonadales
2961	34	0	20	182	Root;Bacteria;Proteobacteria
2964	53	0	0	0	Root;Bacteria
2973	363	0	28	26	Root;Bacteria;Proteobacteria
2974	2702	0	245	0	Root;Bacteria;Proteobacteria
2981	63	0	0	0	Root;Bacteria
2983	0	0	113	0	Root;Bacteria;Proteobacteria
2985	0	0	55	17	Root;Bacteria
2986	0	0	2	0	Root;Bacteria;Proteobacteria;Gammaproteobacteria
2989	5	0	0	0	Root;Bacteria;Proteobacteria
2992	2	0	0	0	Root;Bacteria
2994	0	0	0	114	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
2997	0	0	0	19	Root;Bacteria;Cyanobacteria;Cyanobacteria;Family II;GpIIa
3002	0	13	0	0	Root;Bacteria

Supplemental Table S2

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
1	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus subsp. marinus str. CCMP1375	3.00E-145	90.29
2	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	9.00E-115	90.57
5	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	1.00E-107	88.77
11	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	99.71
12	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL1A	0	98.38
14	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Oxalobacteraceae; Herbaspirillum. Herbaspirillum seropedicae SmR1	6.00E-76	86.3
16	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobivibrionales; Desulfomicrobiaceae; Desulfomicrobium. Desulfomicrobium baculatum DSM 4028	8.00E-78	86.36
23	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	93.72
29	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	5.00E-107	89.36
35	Bacteria; Chloroflexi; Dehalococcoidetes; Dehalococcoides. Dehalococcoides sp. GT	8.00E-72	85.93
37	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sulfurreducens PCA	1.00E-156	90.43
38	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas; Pseudomonas coronafaciens. Pseudomonas syringae pv. oryzae str. 1_6	1.00E-117	87.59
40	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	7.00E-94	87.06
44	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	1.00E-166	91.52
48	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacteriales; Desulfobulbaceae; Desulfobulbus. Desulfobulbus propionicus DSM 2032	2.00E-112	90
49	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	96.22
52	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Brucellaceae; Brucella. Brucella abortus bv. 5 str. B3196	2.00E-139	92.92
53	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	0	98.35
54	Bacteria; Dictyoglomi; Dictyoglomales; Dictyoglomaceae; Dictyoglomus. Dictyoglomus turgidum DSM 6724	1.00E-39	85.45
55	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	4.00E-129	92
61	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Alteromonadaceae; Alteromonas. Alteromonas macleodii str. 'Deep ecotype'	0	96.91
62	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Legionellaceae; Legionella. Legionella pneumophila 2300/99 Alcoy	2.00E-162	90.79
64	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Alkalilimnicola. Alkalilimnicola ehrlichii MLHE-1	1.00E-163	91.23
65	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	2.00E-103	89.17
67	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9515	0	96.04
68	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Brucellaceae; Ochrobactrum. Ochrobactrum anthropi ATCC 49188	6.00E-119	87.81
69	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	7.00E-134	95.91
72	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	5.00E-131	95.38
73	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	2.00E-123	96.82
74	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Bartonellaceae; Bartonella. Bartonella quintana str. Toulouse	4.00E-126	88.43
84	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Alcanivoracaceae; Alcanivorax. Alcanivorax sp. DG881	1.00E-175	92.61
91	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Colwelliaceae; Colwellia. Colwellia psychrerythraea 34H	3.00E-102	89.01
92	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. Mesorhizobium loti MAFF303099	1.00E-175	92.08
95	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; Anaplasmataceae; Ehrlichia. Ehrlichia chaffeensis str. Arkansas	1.00E-80	86.25
100	Bacteria; Proteobacteria; Gammaproteobacteria. gamma proteobacterium NOR51-B	6.00E-82	87.01
101	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Polaribacter. Polaribacter sp. MED152	1.00E-156	94.21
114	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter uraniireducens Rf4	4.00E-151	89.47
115	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	4.00E-175	96.5
117	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter bemidjiensis Bem	1.00E-147	90
120	Bacteria; Proteobacteria; Gammaproteobacteria. gamma proteobacterium NOR51-B	0	94.18
124	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Brucellaceae; Ochrobactrum. Ochrobactrum anthropi ATCC 49188	2.00E-112	90.75

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
127	Bacteria; Proteobacteria; Gammaproteobacteria; Pasteurellales; Pasteurellaceae; Haemophilus. Haemophilus influenzae F3031	4.00E-132	88.45
130	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Brucellaceae; Ochrobactrum. Ochrobactrum anthropi ATCC 49188	5.00E-107	91.59
133	Bacteria; Actinobacteria; Actinobacteridae; Bifidobacteriales; Bifidobacteriaceae; Bifidobacterium. Bifidobacterium angulatum DSM 20098	1.00E-45	87.38
135	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9515	4.00E-178	98.6
139	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Ruegeria. Ruegeria pomeroyi DSS-3	0	96.32
144	Bacteria; Proteobacteria; Deltaproteobacteria; Myxococcales; Cystobacterineae; Myxococcaceae; Anaeromyxobacter. Anaeromyxobacter sp. Fw109-5	7.00E-131	88.57
150	Bacteria; Proteobacteria; Epsilonproteobacteria; Campylobacteriales; Helicobacteraceae; Helicobacter. Helicobacter winghamensis ATCC BAA-430	9.00E-35	85.94
154	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	3.00E-105	90.11
155	Bacteria; Proteobacteria; Gammaproteobacteria; Pasteurellales; Pasteurellaceae; Actinobacillus. Actinobacillus succinogenes 130Z	1.00E-157	90.46
162	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	4.00E-117	90.57
163	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Cellulophaga. Cellulophaga algicola DSM 14237	2.00E-91	87.47
164	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	0	99.75
168	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Hahellaceae; Hahella. Hahella chejuensis KCTC 2396	1.00E-163	92.45
174	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Alcanivoracaceae; Alcanivorax. Alcanivorax borkumensis SK2	8.00E-140	88.93
184	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfomicrobiaceae; Desulfomicrobium. Desulfomicrobium baculatum DSM 4028	3.00E-62	84
187	Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales; Erythrobacteraceae; Erythrobacter. Erythrobacter sp. NAP1	8.00E-103	89.11
199	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Hahellaceae; Hahella. Hahella chejuensis KCTC 2396	2.00E-149	91.67
207	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	99.71
209	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Bartonellaceae; Bartonella. Bartonella bacilliformis KC583	1.00E-166	91.97
215	Bacteria; Bacteroidetes; Sphingobacteria; Sphingobacteriales; Rhodothermaceae; Rhodothermus. Rhodothermus marinus DSM 4252	4.00E-160	90.31
217	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Rhodobacter. Rhodobacter sphaeroides KD131	0	93.19
232	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	92.66
233	Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus. Bacillus megaterium DSM 319	2.00E-100	86.58
237	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	96.3
240	Bacteria; Proteobacteria; Gammaproteobacteria; OMG group; SAR92 clade. gamma proteobacterium HTCC2207	1.00E-82	86.65
242	Bacteria; Spirochaetes; Spirochaetales; Spirochaetaceae; Spirochaeta. Spirochaeta thermophila DSM 6192	7.00E-106	89.46
246	Bacteria; Proteobacteria; Gammaproteobacteria; Thiotrichales; Francisellaceae; Francisella. Francisella philomiragia subsp. philomiragia ATCC 25015	0	100
247	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster. alpha proteobacterium HIMB114	7.00E-134	89.03
249	Bacteria; Firmicutes; Clostridia; Clostridiales; Lachnospiraceae; Catonella. Catonella morbi ATCC 51271	5.00E-58	84
251	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	3.00E-179	94.42
253	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella sp. ANA-3	1.00E-76	85.71
254	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	4.00E-157	90.89
256	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella baltica OS223	3.00E-81	86.29
257	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	9.00E-164	97.56
262	Bacteria; Firmicutes; Bacillales; Macrocooccus. Macrocooccus caseolyticus JCSC5402	2.00E-75	86.36
263	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Propionibacterineae; Nocardioideae; Kribbella. Kribbella flavida DSM 17836	4.00E-123	86.98
268	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Corynebacterineae; Corynebacteriaceae; Corynebacterium. Corynebacterium kroppenstedtii DSM 44385	3.00E-90	87.68
269	Bacteria; Proteobacteria; Gammaproteobacteria; Aeromonadales; Aeromonadaceae; Aeromonas. Aeromonas salmonicida subsp. salmonicida A449	4.00E-92	88.07
270	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella baltica OS223	1.00E-83	86.86
275	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter propionicus DSM 2379	3.00E-139	88.3
278	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Micrococccineae; Intrasporangiaceae; Janibacter. Janibacter sp. HTCC2649	2.00E-91	87.75

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
284	Bacteria; Proteobacteria; Zetaproteobacteria; Mariprofundales; Mariprofundaceae; Mariprofundus. Mariprofundus ferrooxydans PV-1	4.00E-77	86.89
285	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Nitrococcus. Nitrococcus mobilis Nb-231	4.00E-95	85.25
287	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales; Rhodospirillaceae; Rhodospirillum. Rhodospirillum centenum SW	5.00E-147	89.57
288	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	0	96.88
289	Bacteria; Proteobacteria; Deltaproteobacteria; Syntrophobacteriales; Syntrophaceae; Syntrophus. Syntrophus aciditrophicus SB	2.00E-137	88.63
291	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Cellvibrio. Cellvibrio japonicus Ueda107	6.00E-82	86.61
296	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Beijerinckiaceae; Methylocella. Methylocella silvestris BL2	2.00E-131	88.74
297	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Rhizobiaceae; Sinorhizobium/Ensifer group; Sinorhizobium. Sinorhizobium fredii NGR234	1.00E-157	91.83
298	Bacteria; Firmicutes; Clostridia; Clostridiales; Peptococcaceae; Thermincola. Thermincola potens JR	1.00E-45	86.28
302	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	5.00E-104	100
308	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	3.00E-127	92.29
316	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Alcanivoracaceae; Alcanivorax. Alcanivorax borkumensis SK2	6.00E-85	86.93
317	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	0	93.75
318	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Cellvibrio. Cellvibrio japonicus Ueda107	3.00E-77	86.74
324	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M18	7.00E-88	87.36
325	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	6.00E-119	90.83
326	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Polaribacter. Polaribacter irgensii 23-P	2.00E-106	88.59
327	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	2.00E-125	92.77
328	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas. Pseudomonas fluorescens WH6	1.00E-175	92.36
329	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	8.00E-112	90.54
332	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Frankineae; Geodermatophilaceae; Geodermatophilus. Geodermatophilus obscurus DSM 43160	1.00E-175	91.32
333	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella sp. ANA-3	5.00E-70	85.42
335	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	2.00E-165	90.79
339	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Colwelliaceae; Colwellia. Colwellia psychrerythraea 34H	0	95.51
340	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	9.00E-87	87.32
341	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	1.00E-107	89.43
343	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	1.00E-101	88.79
347	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	95.44
348	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfovibrionaceae; Desulfovibrio. Desulfovibrio aespoeensis Aspo-2	3.00E-81	86.97
352	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	95.07
355	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; Rickettsiaceae; Rickettsieae; Rickettsia; typhus group. Rickettsia prowazekii str. Madrid E	8.00E-100	88.76
359	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	0	99.38
361	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	1.00E-160	95.97
364	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M18	2.00E-79	86.86
365	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Pseudoalteromonadaceae; Pseudoalteromonas. Pseudoalteromonas sp. SM9913	0	92.89
367	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Bradyrhizobiaceae; Rhodopseudomonas. Rhodopseudomonas palustris BisB5	4.00E-37	86.5
373	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Brucellaceae; Brucella. Brucella abortus bv. 5 str. B3196	0	93.72
381	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	4.00E-160	95.95
382	Bacteria; Proteobacteria; Gammaproteobacteria; Methylococcales; Methylococcaceae; Methylococcus. Methylococcus capsulatus str. Bath	2.00E-122	88.12
383	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	96.77
384	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. Synechococcus sp. WH 5701	4.00E-150	93.77
386	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	3.00E-87	87.5

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
388	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. Mesorhizobium ciceri biovar biserrulae WSM1271	8.00E-180	92.32
389	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Cellulophaga. Cellulophaga algicola DSM 14237	3.00E-176	92.62
390	Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus. Bacillus licheniformis ATCC 14580	2.00E-146	88.89
391	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Pseudonocardineae; Amycolatopsis. Amycolatopsis mediterranei U32	2.00E-127	92.31
393	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	5.00E-125	95.52
398	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	99.78
399	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Thioalkalivibrio. Thioalkalivibrio sulfidophilus HL-EbGr7	0	92.2
400	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella baltica OS223	4.00E-86	86.86
402	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Alteromonadaceae; Alteromonas. Alteromonas macleodii str. 'Deep ecotype'	0	94.67
403	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Bradyrhizobiaceae; Rhodopseudomonas. Rhodopseudomonas palustris BisB5	6.00E-36	85.64
404	Bacteria; Proteobacteria; Gammaproteobacteria; OMG group; SAR92 clade. gamma proteobacterium HTCC2207	0	95.43
408	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Frankineae; Frankiaceae; Frankia. Frankia sp. Eu11c	3.00E-93	88.29
413	Bacteria; Chlamydiae; Chlamydiales; Parachlamydiaceae; Candidatus Protochlamydia. Candidatus Protochlamydia amoebophila UWE25	1.00E-153	90.63
415	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Flavobacterium. Flavobacterium psychrophilum JIP02/86	1.00E-166	96.32
426	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	0	95.23
428	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Ruegeria. Silicibacter lacuscaerulensis ITI-1157	2.00E-131	91.13
430	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	2.00E-100	91.18
432	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	97.67
433	Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus; Bacillus cereus group. Bacillus thuringiensis serovar tochiensis BGSC 4Y1	0	99.79
435	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster. alpha proteobacterium HIMB114	9.00E-93	88.07
440	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Legionellaceae; Legionella. Legionella longbeachae NSW150	5.00E-144	89.98
441	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	4.00E-175	97.15
447	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter uraniireducens Rf4	2.00E-155	95.43
448	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	97.7
452	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	6.00E-54	89
458	Bacteria; Proteobacteria; Gammaproteobacteria; OMG group; SAR92 clade. gamma proteobacterium HTCC2207	0	94.77
460	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	8.00E-180	91.86
461	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Pelagibaca. Pelagibaca bermudensis HTCC2601	0	95.37
462	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	94.25
466	Bacteria; Firmicutes; Bacillales; Macrocooccus. Macrocooccus caseolyticus JCSC5402	5.00E-58	84
470	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Hyphomonadaceae; Maricaulis. Maricaulis maris MCS10	7.00E-94	88.82
471	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	2.00E-106	89.49
475	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter metallireducens GS-15	3.00E-105	89.49
476	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Moraxellaceae; Moraxella. Moraxella catarrhalis RH4	3.00E-99	85.45
477	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	4.00E-98	88.73
479	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	4.00E-157	97.54
480	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfovibrionaceae; Desulfovibrio. Desulfovibrio aespoensis Aspo-2	2.00E-63	84.66
481	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster. alpha proteobacterium HIMB114	0	92.87
489	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	93.02
493	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Thalassobium. Thalassobium sp. R2A62	0	96.92
494	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	2.00E-180	98.56
499	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	5.00E-175	91.17

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
508	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. <i>Geobacter metallireducens</i> GS-15	3.00E-114	90.52
513	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacterales; Desulfobulbaceae; Desulfobulbus. <i>Desulfobulbus propionicus</i> DSM 2032	1.00E-88	88.95
514	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfomicrobiaceae; Desulfomicrobium. <i>Desulfomicrobium baculatum</i> DSM 4028	6.00E-79	86
516	Bacteria; Cyanobacteria; Acaryochloris. <i>Acaryochloris marina</i> MBIC11017	7.00E-162	90.99
521	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Alcanivoracaceae; Alcanivorax. <i>Alcanivorax borkumensis</i> SK2	1.00E-83	86.57
522	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9202	9.00E-167	99.68
525	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter ubique</i> HTCC1062	0	92.47
527	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Aurantimonadaceae; Aurantimonas. <i>Aurantimonas manganooxydans</i> SI85-9A1	0	95.87
529	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. <i>Coxiella burnetii</i> CbuK_Q154	1.00E-160	90.35
532	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9202	0	100
533	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. <i>Coraliomargarita akajimensis</i> DSM 45221	0	95.5
534	Bacteria; Firmicutes; Bacillales; Macroccoccus. <i>Macroccoccus caseolyticus</i> JCSC5402	1.00E-55	84
535	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter ubique</i> HTCC1062	2.00E-159	90.42
537	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Alteromonadaceae; Marinobacter. <i>Marinobacter aquaeolei</i> VT8	0	94.24
538	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter</i> sp. HTCC7211	0	94.2
542	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9515	2.00E-167	97.57
544	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas. <i>Pseudomonas fluorescens</i> WH6	0	93.21
549	Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales; Sphingomonadaceae; Zymomonas. <i>Zymomonas mobilis</i> subsp. <i>mobilis</i> ZM4	8.00E-140	89.54
550	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Thioalkalivibrio. <i>Thioalkalivibrio sulfidophilus</i> HL-EbGr7	0	93.62
551	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Cellvibrio. <i>Cellvibrio japonicus</i> Ueda107	9.00E-152	89.83
553	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter ubique</i> HTCC1062	0	93.44
555	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. <i>Pelobacter carbinolicus</i> DSM 2380	1.00E-120	91.09
556	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9202	1.00E-98	99.49
557	Bacteria; Proteobacteria; Deltaproteobacteria; Myxococcales; Cystobacterineae; Myxococcaceae; Anaeromyxobacter. <i>Anaeromyxobacter dehalogenans</i> 2CP-1	7.00E-94	88.76
559	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9202	0	98.15
568	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; Anaplasmataceae; Wolbachieae; Wolbachia. <i>Wolbachia endosymbiont of Drosophila willistoni</i> TSC#14030-0811.24	2.00E-102	89.8
570	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter</i> sp. HTCC7211	5.00E-135	89.29
571	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9211	0	98.46
572	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter ubique</i> HTCC1062	4.00E-154	90.21
576	Bacteria; Proteobacteria; Deltaproteobacteria; Syntrophobacterales; Syntrophaceae; Syntrophus. <i>Syntrophus aciditrophicus</i> SB	2.00E-162	90.33
581	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfomicrobiaceae; Desulfomicrobium. <i>Desulfomicrobium baculatum</i> DSM 4028	4.00E-86	86.86
582	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. <i>Halothiobacillus neapolitanus</i> c2	2.00E-122	87.68
589	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. NATL2A	0	98.9
592	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Polaribacter. <i>Polaribacter</i> sp. MED152	0	94.12
601	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. <i>Halothiobacillus neapolitanus</i> c2	1.00E-98	88.89
609	Bacteria; Chlamydiae; Chlamydiales; Chlamydiaceae; Chlamydomphila. <i>Chlamydomphila abortus</i> S26/3	2.00E-81	86.59
611	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. <i>Mesorhizobium ciceri</i> biovar <i>biserrulae</i> WSM1271	1.00E-169	92.21
612	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter ubique</i> HTCC1002	5.00E-116	91.11
614	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Roseibium. <i>Roseibium</i> sp. TrichSKD4	0	97.08
617	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. <i>Candidatus Puniceispirillum marinum</i> IMCC1322	0	95.45
621	Bacteria; Bacteroidetes; Sphingobacteria; Sphingobacteriales; Chitinophagaceae; Chitinophaga. <i>Chitinophaga pinensis</i> DSM 2588	1.00E-129	92.11

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
624	Bacteria; Bacteroidetes; Sphingobacteria; Sphingobacteriales; Sphingobacteriaceae; Sphingobacterium. Sphingobacterium spiritivorum ATCC 33300	2.00E-124	88.53
629	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae. Rhodobacteraceae bacterium KLH11	1.00E-160	97.55
635	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	2.00E-91	88.03
637	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	94.66
640	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	4.00E-101	99.5
642	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. Coxiella burnetii CbuK_Q154	0	93.22
644	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	5.00E-156	94.04
651	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Thioalkalivibrio. Thioalkalivibrio sulfidophilus HL-EbGr7	0	93.21
656	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	95.6
660	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	0	98.86
661	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Ruegeria. Silicibacter sp. TrichCH4B	0	99.78
668	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. Mesorhizobium loti MAFF303099	0	94.4
669	Bacteria; Thermobaculum. Thermobaculum terrenum ATCC BAA-798	1.00E-46	86.82
670	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Comamonadaceae; Comamonas. Comamonas testosteroni CNB-2	3.00E-148	90.67
671	Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales; Sphingomonadaceae; Sphingomonas. Sphingomonas sp. SKA58	0	98.97
672	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Hahellaceae; Hahella. Hahella chejuensis KCTC 2396	3.00E-105	89.71
674	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	3.00E-120	92.02
677	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	8.00E-106	97.72
687	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfomicrobiaceae; Desulfomicrobium. Desulfomicrobium baculatum DSM 4028	3.00E-81	86.57
688	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	94.48
694	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Nitrococcus. Nitrococcus mobilis Nb-231	6.00E-106	90.67
697	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	3.00E-142	98.26
699	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Alcanivoracaceae; Alcanivorax. Alcanivorax borkumensis SK2	0	93.36
702	Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales; Sphingomonadaceae; Sphingopyxis. Sphingopyxis alaskensis RB2256	4.00E-111	90.59
705	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	0	98.89
706	Bacteria; Firmicutes; Lactobacillales; Lactobacillaceae; Lactobacillus. Lactobacillus salivarius UCC118	9.00E-112	86.44
708	Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales; Vibrionaceae; Vibrio. Vibrio sp. Ex25	5.00E-110	90.37
711	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. Synechococcus sp. WH 5701	1.00E-172	91.15
712	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	3.00E-148	90.26
715	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Thalassobium. Thalassobium sp. R2A62	0	94.05
724	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter carbinolicus DSM 2380	4.00E-89	87.71
725	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9515	0	98.89
726	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	7.00E-96	93.87
727	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas; Pseudomonas amygdali. Pseudomonas syringae pv. aesculi str. 2250	2.00E-81	86.29
729	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	4.00E-166	91.21
730	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Flavobacterium. Flavobacterium johnsoniae UW101	2.00E-125	87.83
731	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella baltica OS223	2.00E-146	89.54
734	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Leeuwenhoekiella. Leeuwenhoekiella blandensis MED217	5.00E-110	86.56
736	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	0	92.26
737	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfovibrionaceae; Desulfovibrio. Desulfovibrio aespoensis Aspo-2	2.00E-75	86.04
738	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	4.00E-169	95.17

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
742	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	98.97
743	Bacteria; Proteobacteria; Gammaproteobacteria; Methylococcales; Methylococcaceae; Methylococcus. Methylococcus capsulatus str. Bath	5.00E-138	88.79
744	Bacteria; Proteobacteria; Zetaproteobacteria; Mariprofundales; Mariprofundaceae; Mariprofundus. Mariprofundus ferrooxydans PV-1	1.00E-116	91.19
750	Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales; Xanthomonadaceae; Stenotrophomonas; Stenotrophomonas maltophilia group. Stenotrophomonas maltophilia R551-3	2.00E-45	82.15
752	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	99.43
759	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster. alpha proteobacterium HIMB114	8.00E-143	89.02
763	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Alcanivoracaceae; Alcanivorax. Alcanivorax borkumensis SK2	1.00E-160	91.07
766	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacterales; Desulfobulbaceae; Desulfobulbus. Desulfobulbus propionicus DSM 2032	3.00E-117	90.57
768	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales; Rhodospirillaceae; Magnetospirillum. Magnetospirillum magneticum AMB-1	6.00E-131	92.33
769	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Oceanicola. Oceanicola batsensis HTCC2597	0	97.38
772	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Xanthobacteraceae; Xanthobacter. Xanthobacter autotrophicus Py2	8.00E-130	93.35
774	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Thalassobium. Thalassobium sp. R2A62	0	96.04
777	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacterales; Desulfobacteraceae; Desulfococcus. Desulfococcus oleovorans Hxd3	1.00E-138	88.27
784	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Nitrococcus. Nitrococcus mobilis Nb-231	4.00E-120	91.22
785	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	3.00E-163	97.49
787	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	100
796	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	9.00E-167	98.24
799	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter lovleyi SZ	3.00E-111	90.31
800	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfovibrionaceae; Desulfovibrio. Desulfovibrio aespoensis Aspo-2	2.00E-69	84.86
805	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. Synechococcus sp. RS9917	1.00E-154	96.1
806	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	1.00E-107	89.6
808	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Thioalkalivibrio. Thioalkalivibrio sulfidophilus HL-EbGr7	3.00E-124	88.17
812	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas; Pseudomonas savastanoi. Pseudomonas savastanoi pv. savastanoi NCPPB 3335	2.00E-57	83.71
813	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	2.00E-103	89.17
815	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	1.00E-110	86.7
817	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Bartonellaceae; Bartonella. Bartonella quintana str. Toulouse	5.00E-144	89.47
819	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Bartonellaceae; Bartonella. Bartonella clarridgeiae 73	2.00E-115	91.14
820	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. Coxiella burnetii CbuK_Q154	9.00E-158	94.59
821	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Dokdonia. Dokdonia donghaensis MED134	0	94.13
822	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Polaribacter. Polaribacter sp. MED152	5.00E-135	88.02
823	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Brucellaceae; Brucella. Brucella abortus bv. 5 str. B3196	1.00E-175	91.8
824	Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales; Xanthomonadaceae; Xanthomonas. Xanthomonas oryzae pv. oryzae PXO99A	1.00E-86	87.18
839	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	4.00E-169	94.48
841	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacterales; Desulfobulbaceae; Desulfobulbus. Desulfobulbus propionicus DSM 2032	3.00E-102	89.53
845	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. Synechococcus sp. WH 7805	6.00E-174	98.28
846	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfomicrobiaceae; Desulfomicrobium. Desulfomicrobium baculatum DSM 4028	2.00E-81	86.57
847	Bacteria; Chloroflexi; Dehalococcoidetes; Dehalogenimonas. Dehalogenimonas lykanthroporepellens BL-DC-9	5.00E-73	87.08
852	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	1.00E-79	87.61
853	Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales; Vibrionaceae; Vibrio. Vibrio harveyi HY01	0	100
854	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfovibrionaceae; Desulfovibrio. Desulfovibrio aespoensis Aspo-2	4.00E-86	86.86

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
856	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	6.00E-147	94.25
857	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Frankineae; Frankiaceae; Frankia. Frankia sp. EAN1pec	7.00E-171	91.12
858	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	2.00E-125	91.57
863	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M21	4.00E-89	87.71
867	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M21	8.00E-103	89.71
870	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	1.00E-107	90.69
871	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. Synechococcus sp. RS9916	0	98.26
876	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	100
878	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Alcanivoracaceae; Alcanivorax. Alcanivorax borkumensis SK2	2.00E-128	87.53
880	Bacteria; Proteobacteria; Gammaproteobacteria; Methylococcales; Methylococcaceae; Methylococcus. Methylococcus capsulatus str. Bath	7.00E-60	85.22
882	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Labrenzia. Labrenzia alexandrii DFL-11	3.00E-136	93.43
887	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	1.00E-175	92.39
888	Bacteria; Deinococcus-Thermus; Deinococci; Deinococcales; Trueperaceae; Truepera. Truepera radiovictrix DSM 17093	4.00E-92	87.78
893	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	1.00E-117	90.78
896	Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales; Sphingomonadaceae; Novosphingobium. Novosphingobium aromaticivorans DSM 12444	2.00E-88	84.65
898	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Azotobacter. Azotobacter vinelandii DJ	8.00E-180	92.59
900	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M21	5.00E-98	88.44
904	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	4.00E-160	95.71
906	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter carbinolicus DSM 2380	2.00E-112	90.35
909	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sulfurireducens PCA	2.00E-152	91.45
911	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	3.00E-151	95.74
913	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Rhizobiaceae; Sinorhizobium/Ensifer group; Sinorhizobium. Sinorhizobium meliloti 1021	2.00E-171	91.97
914	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Pseudoalteromonadaceae; Pseudoalteromonas. Pseudoalteromonas haloplanktis TAC125	4.00E-166	91.19
915	Bacteria; Bacteroidetes; Sphingobacteria; Sphingobacteriales; Sphingobacteriaceae; Sphingobacterium. Sphingobacterium spiritivorum ATCC 33300	3.00E-90	87.39
924	Bacteria; Proteobacteria; Gammaproteobacteria; Pasteurellales; Pasteurellaceae; Aggregatibacter. Aggregatibacter aphrophilus NJ8700	6.00E-153	89.71
932	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Riemerella. Riemerella anatipestifer DSM 15868	1.00E-113	90.23
933	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	3.00E-176	98.1
934	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	0	96.31
935	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. Mesorhizobium ciceri biovar biserrulae WSM1271	7.00E-128	88.48
937	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. Mesorhizobium ciceri biovar biserrulae WSM1271	7.00E-168	91.99
938	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	2.00E-75	89.68
942	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; Anaplasmataceae; Wolbachieae; Wolbachia. Wolbachia sp. wRi	5.00E-101	88.92
944	Bacteria; Chloroflexi; Anaerolineae; Anaerolineales; Anaerolineaceae; Anaerolinea. Anaerolinea thermophila UNI-1	8.00E-32	95.6
947	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	95.4
955	Bacteria; Proteobacteria; Gammaproteobacteria. gamma proteobacterium NOR5-3	0	92.59
957	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Rhizobiaceae; Rhizobium/Agrobacterium group; Agrobacterium. Agrobacterium sp. H13-3	2.00E-91	88.3
958	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	1.00E-166	91.54
960	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Thalassobium. Thalassobium sp. R2A62	1.00E-140	94.59
965	Bacteria; Firmicutes; Clostridia; Clostridiales; Eubacteriaceae; Anaerofustis. Anaerofustis stercorihominis DSM 17244	6.00E-45	88.65
973	Bacteria; Proteobacteria; Zetaproteobacteria; Mariprofundales; Mariprofundaceae; Mariprofundus. Mariprofundus ferrooxydans PV-1	4.00E-82	89.2
974	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. Synechococcus sp. WH 8109	0	99.59
978	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Hahellaceae; Hahella. Hahella chejuensis KCTC 2396	0	94.23

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
993	Bacteria; Chlamydiae; Chlamydiales; Chlamydiaceae; Chlamydomphila. Chlamydomphila abortus S26/3	4.00E-64	85.76
994	Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus. Bacillus licheniformis ATCC 14580	6.00E-82	86.57
996	Bacteria; Chlamydiae; Chlamydiales; Chlamydiaceae; Chlamydomphila. Chlamydomphila abortus S26/3	4.00E-86	87.43
998	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	95.11
1001	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales; Rhodospirillaceae; Rhodospirillum. Rhodospirillum rubrum ATCC 11170	7.00E-100	88.54
1003	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Pseudoalteromonadaceae; Pseudoalteromonas. Pseudoalteromonas sp. SM9913	0	96.3
1006	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Thioalkalivibrio. Thioalkalivibrio sulfidophilus HL-EbGr7	2.00E-131	88.08
1011	Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales; Sphingomonadaceae; Sphingomonas. Sphingomonas wittichii RW1	2.00E-103	89.38
1014	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	94.58
1015	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL1A	0	97.22
1017	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Rhodobacter. Rhodobacter sphaeroides KD131	1.00E-129	93.27
1018	Bacteria; Cyanobacteria; Chroococcales; Cyanothece. Cyanothece sp. PCC 7822	8.00E-106	89.8
1022	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Alteromonadaceae; Alteromonas. Alteromonas macleodii str. 'Deep ecotype'	0	98.92
1026	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	0	95.94
1027	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	3.00E-157	94.64
1028	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Nitrococcus. Nitrococcus mobilis Nb-231	2.00E-94	88.07
1029	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Colwelliaceae; Colwellia. Colwellia psychrerythraea 34H	0	93.89
1033	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	94.47
1035	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. Synechococcus sp. WH 5701	2.00E-140	93.48
1037	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Polaribacter. Polaribacter irgensii 23-P	3.00E-102	88.67
1044	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella baltica OS223	1.00E-150	89.54
1051	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	2.00E-152	96.88
1059	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	3.00E-117	91.39
1060	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Rhodobacter. Rhodobacter sphaeroides KD131	8.00E-177	92.58
1063	Bacteria; Bacteroidetes; Cytophagia; Cytophagales; Cytophagaceae; Dyadobacter. Dyadobacter fermentans DSM 18053	3.00E-111	90.31
1065	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9515	0	98.67
1068	Bacteria; Proteobacteria; Zetaproteobacteria; Mariprofundales; Mariprofundaceae; Mariprofundus. Mariprofundus ferrooxydans PV-1	2.00E-91	88.32
1069	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	3.00E-105	89.31
1072	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	97.54
1074	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella woodyi ATCC 51908	1.00E-147	89.07
1076	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella woodyi ATCC 51908	5.00E-141	88.48
1079	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M21	6.00E-122	88.5
1082	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Hahellaceae; Hahella. Hahella chejuensis KCTC 2396	0	92.8
1087	Bacteria; Bacteroidetes; Sphingobacteria; Sphingobacteriales; Rhodothermaceae; Rhodothermus. Rhodothermus marinus DSM 4252	5.00E-112	92.93
1092	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella woodyi ATCC 51908	0	97.9
1097	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. Coxiella burnetii CbuK_Q154	2.00E-153	90.4
1098	Bacteria; Firmicutes; Lactobacillales; Streptococcaceae; Streptococcus. Streptococcus pyogenes ATCC 10782	2.00E-112	90
1103	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	95.63
1106	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Polaribacter. Polaribacter sp. MED152	0	94.58
1107	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Gramella. Gramella forsetii KT0803	2.00E-137	88.91
1112	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	3.00E-151	95.87
1116	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Alcanivoracaceae; Alcanivorax. Alcanivorax borkumensis SK2	5.00E-138	89.76

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
1118	Bacteria; Planctomycetes; Planctomycetacia; Planctomycetales; Planctomycetaceae; Planctomyces. <i>Planctomyces brasiliensis</i> DSM 5305	4.00E-111	90.29
1120	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Corynebacterineae; Corynebacteriaceae; Corynebacterium. <i>Corynebacterium kroppenstedtii</i> DSM 44385	8.00E-72	87.22
1124	Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae; Clostridium. <i>Clostridium leptum</i> DSM 753	3.00E-19	90.7
1129	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. <i>Synechococcus</i> sp. WH 8109	1.00E-73	83.85
1133	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas; Pseudomonas amygdali. <i>Pseudomonas syringae</i> pv. <i>tabaci</i> ATCC 11528	2.00E-130	92.33
1136	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. <i>Halothiobacillus neapolitanus</i> c2	4.00E-83	86.18
1137	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter ubique</i> HTCC1002	3.00E-117	89.76
1139	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Oxalobacteraceae; Herbaspirillum. <i>Herbaspirillum seropedicae</i> SmR1	4.00E-95	88.12
1142	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. <i>Pelobacter propionicus</i> DSM 2379	2.00E-143	89.95
1143	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Achromobacter. <i>Achromobacter xylosoxidans</i> A8	0	95.22
1145	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9202	0	98.75
1146	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Propionibacterineae; Nocardoidaceae; Aeromicrobium. <i>Aeromicrobium marinum</i> DSM 15272	8.00E-106	89.17
1149	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas. <i>Pseudomonas fluorescens</i> Pf-5	7.00E-137	88.89
1154	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfomicrobiaceae; Desulfomicrobium. <i>Desulfomicrobium baculatum</i> DSM 4028	2.00E-79	86.32
1156	Bacteria; Cyanobacteria; Chroococcales; Cyanothecae. <i>Cyanothecae</i> sp. ATCC 51142	0	99.17
1157	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter</i> sp. HTCC7211	2.00E-152	95.85
1159	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. <i>Geobacter</i> sp. FRC-32	7.00E-72	86.4
1161	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. <i>Mesorhizobium ciceri</i> biovar <i>biserrulae</i> WSM1271	4.00E-91	97.89
1166	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Achromobacter. <i>Achromobacter xylosoxidans</i> A8	0	93.87
1168	Bacteria; Bacteroidetes; Cytophagia; Cytophagales; Cytophagaceae; Cytophaga. <i>Cytophaga hutchinsonii</i> ATCC 33406	1.00E-141	93.45
1178	Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales; Vibrionaceae; Vibrio. <i>Vibrio cholerae</i> AM-19226	6.00E-85	84.25
1180	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. <i>Coxiella burnetii</i> CbuK_Q154	2.00E-119	92.9
1184	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Bartonellaceae; Bartonella. <i>Bartonella grahamii</i> as4aup	3.00E-124	87.63
1187	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. <i>Shewanella</i> sp. ANA-3	0	95.81
1188	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. <i>Geobacter uraniireducens</i> Rf4	2.00E-106	89.83
1191	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. <i>Pelobacter propionicus</i> DSM 2379	7.00E-131	87.73
1196	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. NATL2A	6.00E-156	89.71
1198	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9202	1.00E-138	94.82
1200	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. <i>Shewanella</i> sp. ANA-3	2.00E-93	87.03
1203	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. <i>Coxiella burnetii</i> CbuK_Q154	9.00E-152	89.83
1204	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. <i>Geobacter sulfurreducens</i> PCA	1.00E-166	90.78
1210	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas; Pseudomonas coronafaciens. <i>Pseudomonas syringae</i> pv. <i>oryzae</i> str. 1_6	2.00E-112	87.56
1211	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Cellulophaga. <i>Cellulophaga algicola</i> DSM 14237	0	92.41
1212	Bacteria; Planctomycetes; Planctomycetacia; Planctomycetales; Planctomycetaceae; Rhodopirellula. <i>Rhodopirellula baltica</i> SH 1	1.00E-98	90.35
1215	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. <i>Geobacter</i> sp. M21	3.00E-102	89.49
1218	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. <i>Shewanella woodyi</i> ATCC 51908	1.00E-144	88.96
1220	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Alcanivoracaceae; Alcanivorax. <i>Alcanivorax borkumensis</i> SK2	9.00E-84	86.57
1228	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. <i>Geobacter</i> sp. FRC-32	4.00E-89	87.43
1229	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter ubique</i> HTCC1062	2.00E-177	91.58

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
1233	Bacteria; Chlamydiae; Chlamydiales; Parachlamydiaceae; Candidatus Protochlamydia. Candidatus Protochlamydia amoebophila UWE25	2.00E-111	90.59
1235	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	0	93.93
1237	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Comamonadaceae; Polaromonas. Polaromonas sp. JS666	5.00E-175	92.16
1246	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	4.00E-107	89.68
1247	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	1.00E-162	96.69
1248	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	98.15
1251	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	3.00E-102	90.71
1255	Bacteria; Chlamydiae; Chlamydiales; Chlamydiaceae; Chlamydophila. Chlamydophila abortus S26/3	3.00E-74	86.29
1259	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Cellulophaga. Cellulophaga algicola DSM 14237	1.00E-154	90.76
1263	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas. Pseudomonas fluorescens Pf-5	0	93.37
1265	Bacteria; Bacteroidetes; Cytophagia; Cytophagales; Cytophagaceae; Cytophaga. Cytophaga hutchinsonii ATCC 33406	3.00E-80	93.75
1269	Bacteria; Proteobacteria; Deltaproteobacteria; Syntrophobacteriales; Syntrophaceae; Syntrophus. Syntrophus aciditrophicus SB	9.00E-115	87.55
1274	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. Coxiella burnetii CbuK_Q154	7.00E-122	91.43
1280	Bacteria; Cyanobacteria; Chroococcales; Cyanobium. Cyanobium sp. PCC 7001	2.00E-131	92.49
1281	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	2.00E-115	90.6
1289	Bacteria; Proteobacteria; Deltaproteobacteria; Myxococcales; Cystobacterineae; Myxococcaceae; Anaeromyxobacter. Anaeromyxobacter dehalogenans 2CP-1	2.00E-119	91.43
1298	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	0	98.83
1300	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	1.00E-172	97.15
1306	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Beijerinckiaceae; Beijerinckia. Beijerinckia indica subsp. indica ATCC 9039	2.00E-116	91.12
1314	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Rhizobiaceae; Sinorhizobium/Ensifer group; Sinorhizobium. Sinorhizobium medicae WSM419	4.00E-123	86.97
1315	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	7.00E-177	99.4
1316	Bacteria; Bacteroidetes; Cytophagia; Cytophagales; Flammeovirgaceae; Marivirga. Marivirga tractuosa DSM 4126	2.00E-106	89.52
1323	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Hahellaceae; Hahella. Hahella chejuensis KCTC 2396	3.00E-173	91.6
1327	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	7.00E-180	98.59
1329	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	99.42
1335	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Cellvibrio. Cellvibrio japonicus Ueda107	1.00E-147	89.19
1339	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella piezotolerans WP3	7.00E-171	91.89
1344	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales; Rhodospirillaceae; Rhodospirillum. Rhodospirillum rubrum ATCC 11170	3.00E-111	89.77
1345	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfomicrobiaceae; Desulfomicrobium. Desulfomicrobium baculatum DSM 4028	3.00E-81	86.57
1349	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Micrococciaceae; Intrasporangiaceae; Janibacter. Janibacter sp. HTCC2649	7.00E-94	88.03
1351	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	99.42
1354	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	2.00E-119	90.86
1357	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Cellulophaga. Cellulophaga algicola DSM 14237	5.00E-169	91.82
1360	Bacteria; Bacteroidetes; Bacteroidia; Bacteroidales; Bacteroidaceae; Bacteroides. Bacteroides eggerthii DSM 20697	2.00E-109	89.68
1364	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Robiginitalea. Robiginitalea biformata HTCC2501	0	94.13
1365	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Hahellaceae; Hahella. Hahella chejuensis KCTC 2396	3.00E-155	89.92
1369	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales; Rhodospirillaceae; Rhodospirillum. Rhodospirillum rubrum ATCC 11170	1.00E-101	88.64
1370	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	8.00E-115	90.57
1373	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Propionibacterineae; Nocardioideae; Kribbella. Kribbella flavida DSM 17836	4.00E-86	87.57
1380	Bacteria; Proteobacteria; Alphaproteobacteria; Caulobacteriales; Caulobacteraceae; Caulobacter. Caulobacter segnis ATCC 21756	6.00E-51	89.3
1384	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; Rickettsiaceae; Rickettsiae; Rickettsia; spotted fever group. Rickettsia massiliae MTU5	2.00E-119	87.03
1395	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Bartonellaceae; Bartonella. Bartonella quintana str. Toulouse	2.00E-118	90.13

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
1397	Bacteria; Deinococcus-Thermus; Deinococci; Deinococcales; Trueperaceae; Truepera. <i>Truepera radiovictrix</i> DSM 17093	5.00E-101	85.18
1398	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Alcanivoracaceae; Alcanivorax. <i>Alcanivorax borkumensis</i> SK2	0	93.83
1405	Bacteria; Bacteroidetes; Cytophagia; Cytophagales; Flammeovirgaceae; Marivirga. <i>Marivirga tractuosa</i> DSM 4126	4.00E-154	94.89
1406	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. <i>Candidatus Puniceispirillum marinum</i> IMCC1322	1.00E-172	92.87
1410	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. <i>Pelobacter carbinolicus</i> DSM 2380	2.00E-109	89.52
1419	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. <i>Candidatus Puniceispirillum marinum</i> IMCC1322	2.00E-133	92.55
1421	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Bartonellaceae; Bartonella. <i>Bartonella quintana</i> str. Toulouse	8.00E-106	90.29
1425	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9211	0	99.38
1427	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. <i>Coxiella burnetii</i> CbuK_Q154	3.00E-164	90.99
1430	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Hoeflea. <i>Hoeflea phototrophica</i> DFL-43	3.00E-59	85.59
1432	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. <i>Halothiobacillus neapolitanus</i> c2	3.00E-96	88.32
1436	Bacteria; Proteobacteria; Zetaproteobacteria; Mariprofundales; Mariprofundaceae; Mariprofundus. <i>Mariprofundus ferrooxydans</i> PV-1	7.00E-97	88.32
1437	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas. <i>Pseudomonas fluorescens</i> Pf0-1	2.00E-69	84.86
1442	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. <i>Geobacter sulfurreducens</i> PCA	2.00E-159	90.62
1445	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; Rickettsiaceae; Rickettsia. <i>Rickettsia tsutsugamushi</i> str. Ikeda	4.00E-74	84.76
1449	Bacteria; Chlamydiae; Chlamydiales; Chlamydiaceae; Chlamydia. <i>Chlamydia abortus</i> S26/3	2.00E-152	89.48
1452	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas; Pseudomonas coronafaciens. <i>Pseudomonas syringae</i> pv. <i>oryzae</i> str. 1_6	0	92.2
1454	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter</i> sp. HTCC7211	0	94.19
1455	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9202	0	97.07
1457	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. <i>Candidatus Puniceispirillum marinum</i> IMCC1322	0	98.25
1461	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. <i>Halothiobacillus neapolitanus</i> c2	7.00E-94	88.32
1463	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. <i>Coxiella burnetii</i> CbuK_Q154	5.00E-144	89.63
1468	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter ubique</i> HTCC1002	6.00E-156	95.39
1477	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfovibrionaceae; Desulfovibrio. <i>Desulfovibrio salexigens</i> DSM 2638	3.00E-87	87.46
1478	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. <i>Geobacter</i> sp. FRC-32	1.00E-122	91.64
1480	Bacteria; Proteobacteria; Deltaproteobacteria; Myxococcales; Cystobacterineae; Myxococcaceae; Anaeromyxobacter. <i>Anaeromyxobacter dehalogenans</i> ZCP-1	2.00E-128	87.68
1481	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Micrococccineae; Intrasporangiaceae; Janibacter. <i>Janibacter</i> sp. HTCC2649	2.00E-91	87.46
1482	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter ubique</i> HTCC1002	3.00E-111	90.56
1488	Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales; Vibrionaceae; Vibrio. <i>Vibrio harveyi</i> HY01	0	98.47
1491	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. <i>Geobacter</i> sp. FRC-32	3.00E-96	88.58
1492	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9202	2.00E-143	98.3
1495	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. <i>Halothiobacillus neapolitanus</i> c2	3.00E-93	85.71
1496	Bacteria; Chloroflexi; Anaerolineae; Anaerolineales; Anaerolineaceae; Anaerolinea. <i>Anaerolinea thermophila</i> UNI-1	1.00E-138	89.39
1503	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter ubique</i> HTCC1002	1.00E-153	95.1
1506	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter ubique</i> HTCC1062	0	96.3
1514	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Robiginitalea. <i>Robiginitalea biformata</i> HTCC2501	2.00E-115	92.93
1515	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter ubique</i> HTCC1002	2.00E-168	90.98
1516	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Leptothrix. <i>Leptothrix cholodnii</i> SP-6	4.00E-126	88.91
1517	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Polaribacter. <i>Polaribacter</i> sp. MED152	0	98.52
1519	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. <i>Geobacter bemidjensis</i> Bem	2.00E-159	90.7
1525	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Legionellaceae; Legionella. <i>Legionella pneumophila</i> 2300/99 Alcoy	3.00E-108	86.5

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
1530	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter propionicus DSM 2379	2.00E-106	86.83
1534	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	2.00E-111	93.49
1538	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Brucellaceae; Ochrobactrum. Ochrobactrum anthropi ATCC 49188	0	93.93
1541	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	1.00E-178	92.62
1545	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Moraxellaceae; Acinetobacter; Acinetobacter calcoaceticus/baumannii complex. Acinetobacter sp. SH024	5.00E-172	90.95
1546	Bacteria; Proteobacteria; Gammaproteobacteria; OMG group; SAR92 clade. gamma proteobacterium HTCC2207	0	94.44
1553	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Oxalobacteraceae; Herbaspirillum. Herbaspirillum seropedicae SmR1	5.00E-76	85.8
1554	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Pseudoalteromonadaceae; Pseudoalteromonas. Pseudoalteromonas tunicata D2	0	93.48
1561	Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales; Sphingomonadaceae; Sphingopyxis. Sphingopyxis alaskensis RB2256	2.00E-115	87.34
1568	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas. Pseudomonas fluorescens Pf0-1	4.00E-86	86.86
1570	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Bradyrhizobiaceae; Rhodopseudomonas. Rhodopseudomonas palustris BisA53	1.00E-91	88.32
1571	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Legionellaceae; Legionella. Legionella longbeachae NSW150	9.00E-149	89.32
1574	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	2.00E-168	97.94
1575	Bacteria; Proteobacteria; Deltaproteobacteria; Syntrophobacteriales; Syntrophaceae; Syntrophus. Syntrophus aciditrophicus SB	2.00E-152	89.52
1582	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9515	0	98.37
1583	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9211	6.00E-122	87.53
1587	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas; Pseudomonas coronafaciens. Pseudomonas syringae pv. oryzae str. 1_6	4.00E-120	86.86
1588	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter metallireducens GS-15	6.00E-122	88.3
1591	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Legionellaceae; Legionella. Legionella pneumophila 2300/99 Alcoy	2.00E-124	91.81
1592	Bacteria; Bacteroidetes; Sphingobacteria; Sphingobacteriales; Sphingobacteriaceae; Sphingobacterium. Sphingobacterium spiritivorum ATCC 33861	2.00E-140	89.5
1595	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfovibrionaceae; Desulfovibrio. Desulfovibrio aespoensis Aspo-2	1.00E-83	86.57
1596	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	5.00E-178	91.6
1597	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter propionicus DSM 2379	5.00E-169	90.99
1602	Bacteria; Bacteroidetes; Sphingobacteria; Sphingobacteriales; Sphingobacteriaceae; Sphingobacterium. Sphingobacterium spiritivorum ATCC 33861	2.00E-109	90.26
1607	Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales; Vibrionaceae; Vibrio. Vibrio harveyi HY01	0	98.86
1609	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfomicrobiaceae; Desulfomicrobium. Desulfomicrobium baculatum DSM 4028	6.00E-82	86.61
1610	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	3.00E-157	96.39
1611	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Alkalilimnicola. Alkalilimnicola ehrlichii MLHE-1	4.00E-157	90.27
1616	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	1.00E-86	87.43
1621	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M18	2.00E-66	85.51
1623	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	1.00E-98	91.1
1624	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Robiginitalea. Robiginitalea biformata HTCC2501	3.00E-161	90.87
1626	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales; Rhodospirillaceae; Rhodospirillum. Rhodospirillum rubrum ATCC 11170	3.00E-71	87.04
1627	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. Mesorhizobium loti MAFF303099	2.00E-155	90.38
1631	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M21	4.00E-89	87.43
1639	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. Coxiella burnetii CbuK_Q154	1.00E-101	89.49
1642	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	2.00E-106	90.17
1643	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	5.00E-101	88.89
1644	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales; Rhodospirillaceae; Magnetospirillum. Magnetospirillum magneticum AMB-1	4.00E-114	90.62
1650	Bacteria; Deferribacteres; Deferribacterales; Deferribacteraceae; Deferribacter. Deferribacter desulfuricans SSM1	2.00E-63	84.38

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
1651	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Alteromonadaceae; Alteromonas. Alteromonas macleodii str. 'Deep ecotype'	5.00E-178	91.88
1653	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	3.00E-52	91.12
1656	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	2.00E-146	94.99
1658	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	1.00E-153	95.1
1661	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcales; Prochlorococcus. Prochlorococcus marinus str. MIT 9515	0	98.38
1664	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Robiginitalea. Robiginitalea biformata HTCC2501	0	94.78
1665	Bacteria; Bacteroidetes; Cytophagia; Cytophagales; Cyclobacteriaceae; Algoriphagus. Algoriphagus sp. PR1	3.00E-117	90.57
1666	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Dokdonia. Dokdonia donghaensis MED134	0	95.26
1668	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	3.00E-120	88.54
1669	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	95.71
1670	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Pseudoalteromonadaceae; Pseudoalteromonas. Pseudoalteromonas tunicata D2	6.00E-156	90.93
1671	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	1.00E-113	90.23
1676	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Polaribacter. Polaribacter sp. MED152	2.00E-137	88.91
1682	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Robiginitalea. Robiginitalea biformata HTCC2501	2.00E-177	92.42
1685	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	4.00E-157	90.65
1686	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	0	97.83
1691	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	1.00E-144	95.18
1692	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	1.00E-104	88.74
1694	Bacteria; Verrucomicrobia; Opiritae; Puniceicoccales; Puniceicoccales; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	2.00E-75	92.13
1695	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Alteromonadaceae; Saccharophagus. Saccharophagus degradans 2-40	7.00E-131	88.4
1697	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcales; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	2.00E-127	96.89
1698	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. Synechococcus sp. WH 5701	5.00E-141	93.71
1699	Bacteria; Verrucomicrobia; Opiritae; Opiritales; Opiritaceae; Opiritus. Opiritus terrae PB90-1	6.00E-73	91.67
1704	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	95.01
1705	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	7.00E-165	90.64
1710	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. Synechococcus sp. BL107	0	100
1711	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella sp. ANA-3	3.00E-105	89.14
1712	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	0	93.04
1713	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Legionellaceae; Legionella. Legionella pneumophila 2300/99 Alcoy	1.00E-104	86.3
1718	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella oneidensis MR-1	1.00E-119	87.34
1719	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas. Pseudomonas aeruginosa 39016	1.00E-138	88.59
1721	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	94.77
1722	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella woodyi ATCC 51908	5.00E-138	89.06
1724	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Frankineae; Frankiaceae; Frankia. Frankia sp. Eu1c	1.00E-88	87.14
1725	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	9.00E-121	93.51
1730	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacteriales; Rhodobacteraceae; Octadecabacter. Octadecabacter antarcticus 238	0	96.38
1734	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfomicrobiaceae; Desulfomicrobium. Desulfomicrobium baculatum DSM 4028	4.00E-129	88.07
1737	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacterales; Desulfobulbaceae; Desulfobulbus. Desulfobulbus propionicus DSM 2032	4.00E-117	90.57
1742	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	0	96.72
1747	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	2.00E-91	87.75
1757	Bacteria; Planctomycetes; Planctomycetacia; Planctomycetales; Planctomycetaceae; Rhodopirellula. Rhodopirellula baltica SH 1	7.00E-128	87.9
1759	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Hahellaceae; Hahella. Hahella chejuensis KCTC 2396	9.00E-124	89.02

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
1760	Bacteria; Proteobacteria; Gammaproteobacteria; Methylococcales; Methylococcaceae; Methylococcus. <i>Methylococcus capsulatus</i> str. Bath	0	93.2
1762	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. <i>Geobacter</i> sp. FRC-32	2.00E-115	90.57
1765	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. <i>Candidatus Puniceispirillum marinum</i> IMCC1322	7.00E-134	92.77
1768	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Legionellaceae; Legionella. <i>Legionella pneumophila</i> 2300/99 Alcoy	1.00E-113	90.6
1772	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. <i>Shewanella baltica</i> OS223	2.00E-143	89.96
1773	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9202	4.00E-141	95.82
1776	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. <i>Coxiella burnetii</i> CbuK_Q154	4.00E-117	90.57
1778	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster. <i>alpha proteobacterium</i> HIMB114	0	98.27
1782	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter ubique</i> HTCC1002	5.00E-110	89.83
1789	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Flavobacterium. <i>Flavobacterium psychrophilum</i> JIPO2/86	9.00E-133	92.53
1790	Bacteria; Chloroflexi; Dehalococcoidetes; Dehalogenimonas. <i>Dehalogenimonas lykanthroporepellens</i> BL-DC-9	9.00E-44	86.79
1791	Bacteria; Thermobaculum. <i>Thermobaculum terrenum</i> ATCC BAA-798	8.00E-103	89.88
1793	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Brucellaceae; Brucella. <i>Brucella abortus</i> bv. 5 str. B3196	4.00E-157	90.89
1796	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. <i>Candidatus Puniceispirillum marinum</i> IMCC1322	4.00E-157	91.76
1798	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. NATL2A	1.00E-91	99.45
1799	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas; Pseudomonas syringae. <i>Pseudomonas syringae</i> pv. syringae FF5	0	94.8
1804	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. <i>Synechococcus</i> sp. WH 8109	4.00E-80	83.88
1805	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Brucellaceae; Ochrobactrum. <i>Ochrobactrum anthropi</i> ATCC 49188	0	94.24
1808	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Corynebacterineae; Nocardiaceae; Rhodococcus. <i>Rhodococcus jostii</i> RHA1	2.00E-109	89.97
1810	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Propionibacterineae; Nocardioidaceae; Kribbella. <i>Kribbella flavida</i> DSM 17836	5.00E-147	89.47
1811	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Pelagibaca. <i>Pelagibaca bermudensis</i> HTCC2601	0	97.84
1821	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. <i>Coxiella burnetii</i> CbuG_Q212	2.00E-165	92.02
1823	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfomicrobiaceae; Desulfomicrobium. <i>Desulfomicrobium baculatum</i> DSM 4028	5.00E-135	88.31
1825	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. <i>Candidatus Puniceispirillum marinum</i> IMCC1322	9.00E-115	89.57
1831	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9202	0	100
1832	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9202	0	98.1
1833	Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales; Vibrionaceae; Vibrio. <i>Vibrio harveyi</i> HY01	0	96.91
1835	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter</i> sp. HTCC7211	7.00E-168	90.76
1838	Bacteria; Chlamydiae; Chlamydiales; Chlamydiaceae; Chlamydia. <i>Chlamydia trachomatis</i> L2b/UCH-1/proctitis	8.00E-72	85.71
1840	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. <i>Coxiella burnetii</i> CbuK_Q154	1.00E-138	88.68
1843	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Alteromonadaceae; Saccharophagus. <i>Saccharophagus degradans</i> 2-40	0	96.23
1844	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. NATL2A	1.00E-98	88.57
1853	Bacteria; Planctomycetes; Planctomycetacia; Planctomycetales; Planctomycetaceae; Planctomyces. <i>Planctomyces brasiliensis</i> DSM 5305	4.00E-89	88.38
1858	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. <i>Candidatus Pelagibacter</i> sp. HTCC7211	1.00E-160	91.1
1863	Bacteria; Proteobacteria; Deltaproteobacteria; Myxococcales; Cystobacterineae; Myxococcaceae; Anaeromyxobacter. <i>Anaeromyxobacter</i> sp. Fw109-5	2.00E-106	89.66
1866	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. <i>Shewanella baltica</i> OS223	9.00E-152	90
1868	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. NATL2A	3.00E-154	99.65
1874	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9202	0	95.83
1875	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9515	6.00E-103	98.57
1876	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> subsp. <i>marinus</i> str. CCMP1375	0	99.42
1878	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. <i>Prochlorococcus marinus</i> str. MIT 9202	3.00E-133	99.6

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
1883	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	8.00E-180	91.58
1885	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Cellvibrio. Cellvibrio japonicus Ueda107	0	93.5
1894	Bacteria; Proteobacteria; Gammaproteobacteria; Methylococcales; Methylococcaceae; Methylococcus. Methylococcus capsulatus str. Bath	3.00E-127	91.74
1896	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter carbinolicus DSM 2380	1.00E-110	90
1897	Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae; Clostridium. Clostridium kluyveri NBRC 12016	5.00E-64	84.24
1902	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	2.00E-109	90.48
1903	Bacteria; Bacteroidetes; Cytophagia; Cytophagales; Flammeovirgaceae; Marivirga. Marivirga tractuosa DSM 4126	8.00E-140	93.18
1905	Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales; Erythrobacteraceae; Erythrobacter. Erythrobacter sp. NAP1	0	97.49
1910	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	95.57
1913	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	1.00E-125	89.81
1915	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales; Acetobacteraceae; Acetobacter. Acetobacter pasteurianus IFO 3283-01	2.00E-81	86.16
1918	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	0	93.1
1920	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Micrococciaceae; Intrasporangiaceae; Intrasporangium. Intrasporangium calvum DSM 43043	2.00E-103	88.89
1927	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Hahellaceae; Hahella. Hahella chejuensis KCTC 2396	3.00E-176	92.62
1930	Bacteria; Proteobacteria; Epsilonproteobacteria; Nitratiruptor. Nitratiruptor sp. SB155-2	6.00E-153	89.92
1937	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	3.00E-151	90.95
1944	Bacteria; Bacteroidetes; Cytophagia; Cytophagales; Cytophagaceae; Cytophaga. Cytophaga hutchinsonii ATCC 33406	9.00E-118	90.88
1945	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. Synechococcus sp. WH 5701	0	94.03
1949	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Frankineae; Acidothermaceae; Acidothermus. Acidothermus cellulolyticus 11B	0	93.01
1952	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter propionicus DSM 2379	5.00E-172	90.95
1953	Bacteria; Proteobacteria; Gammaproteobacteria. gamma proteobacterium NOR5-3	4.00E-86	88.71
1960	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Cellvibrio. Cellvibrio japonicus Ueda107	1.00E-116	87.64
1961	Eukaryota; Alveolata; Apicomplexa; Aconoidasida; Haemosporida; Plasmodium; Plasmodium (Vinckeia). Plasmodium yoelii yoelii str. 17XNL	5.00E-138	88.25
1965	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; Anaplasmataceae; Ehrlichia. Ehrlichia chaffeensis str. Arkansas	7.00E-88	87.11
1966	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales; Rhodospirillaceae; Magnetospirillum. Magnetospirillum magneticum AMB-1	3.00E-114	90.62
1968	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	97.83
1969	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter metallireducens GS-15	2.00E-168	91.19
1975	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella oneidensis MR-1	3.00E-136	89.21
1980	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	94.05
1984	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Polaribacter. Polaribacter sp. MED152	2.00E-125	87.61
1986	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella baltica OS223	1.00E-83	86.86
1990	Bacteria; Proteobacteria; Gammaproteobacteria. gamma proteobacterium NOR51-B	0	94.05
1991	Bacteria; Planctomycetes; Planctomycetacia; Planctomycetales; Planctomycetaceae; Blastopirellula. Blastopirellula marina DSM 3645	3.00E-65	84.62
1993	Bacteria; Proteobacteria; Gammaproteobacteria; Pasteurellales; Pasteurellaceae; Aggregatibacter. Aggregatibacter aphrophilus NJ8700	9.00E-149	89.14
1997	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter bemidjensis Bem	3.00E-136	89.3
1998	Bacteria; Proteobacteria; Gammaproteobacteria; OMG group; SAR92 clade. gamma proteobacterium HTCC2207	0	95.63
1999	Bacteria; Firmicutes; Lactobacillales; Lactobacillaceae; Lactobacillus. Lactobacillus hilgardii ATCC 8290	2.00E-79	86.61
2001	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella sp. MR-7	0	92.18
2002	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. Coxiella burnetii CbuG_Q212	4.00E-154	90.65
2003	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas; Pseudomonas amygdali. Pseudomonas syringae pv. tabaci ATCC 11528	1.00E-129	92.71
2006	Bacteria; Proteobacteria; Gammaproteobacteria; OMG group; SAR92 clade. gamma proteobacterium HTCC2207	0	94.49

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
2008	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Zunongwangia. Zunongwangia profunda SM-A87	9.00E-152	90
2009	Bacteria; Proteobacteria; Gammaproteobacteria. gamma proteobacterium NOR51-B	1.00E-79	86.61
2011	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter carbinolicus DSM 2380	7.00E-94	88
2016	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas. Pseudomonas fluorescens Pf-5	3.00E-176	91.8
2017	Bacteria; Proteobacteria; Gammaproteobacteria. gamma proteobacterium NOR51-B	9.00E-75	86.32
2022	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	0	97.62
2028	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	4.00E-83	87.07
2033	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfomicrobiaceae; Desulfomicrobium. Desulfomicrobium baculatum DSM 4028	1.00E-64	84.29
2034	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Rhizobiaceae; Sinorhizobium/Ensifer group; Sinorhizobium. Sinorhizobium fredii NGR234	1.00E-83	87.71
2036	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella baltica OS223	1.00E-166	90.99
2037	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	1.00E-159	99.66
2040	Bacteria; Bacteroidetes; Bacteroidia; Bacteroidales; Rikenellaceae; Alistipes. Alistipes putredinis DSM 17216	3.00E-65	81.89
2041	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter uraniireducens Rf4	6.00E-94	89.05
2050	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	4.00E-89	87.75
2052	Bacteria; Chloroflexi; Dehalococcoidetes; Dehalogenimonas. Dehalogenimonas lykanthroporepellens BL-DC-9	2.00E-63	85.13
2055	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter carbinolicus DSM 2380	4.00E-120	90.88
2057	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	0	93.68
2070	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	7.00E-177	97.81
2075	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	98.12
2076	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	1.00E-178	92.41
2077	Bacteria; Bacteroidetes; Cytophagia; Cytophagales; Flammeovirgaceae; Marivirga. Marivirga tractuosa DSM 4126	2.00E-122	91.17
2086	Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae; Clostridium. Clostridium kluyveri NBRC 12016	9.00E-69	84.81
2093	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Propionibacterineae; Nocardioideae; Kribbella. Kribbella flavida DSM 17836	4.00E-89	87.46
2096	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae. Rhodobacteraceae bacterium HTCC2083	0	98.7
2098	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	98.36
2104	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	0	98.21
2105	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Frankineae; Geodermatophilaceae; Geodermatophilus. Geodermatophilus obscurus DSM 43160	2.00E-155	90.46
2107	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter propionicus DSM 2379	1.00E-123	87.83
2108	Bacteria; Proteobacteria; Zetaproteobacteria; Mariprofundales; Mariprofundaceae; Mariprofundus. Mariprofundus ferrooxydans PV-1	4.00E-114	90.26
2112	Bacteria; Firmicutes; Bacillales; Listeriaceae; Listeria. Listeria seeligeri serovar 1/2b str. SLCC3954	7.00E-125	87.76
2115	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	4.00E-154	90.25
2116	Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus. Bacillus licheniformis ATCC 14580	2.00E-128	88.48
2120	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. Mesorhizobium ciceri biovar biserrulae WSM1271	3.00E-142	90.43
2133	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	2.00E-121	99.14
2135	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; Rickettsiaceae; Rickettsieae; Rickettsia; spotted fever group. Rickettsia rickettsii str. Iowa	6.00E-97	88.89
2137	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	98.36
2140	Bacteria; Proteobacteria; Zetaproteobacteria; Mariprofundales; Mariprofundaceae; Mariprofundus. Mariprofundus ferrooxydans PV-1	2.00E-128	88.26
2146	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	0	94.8
2147	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. Coxiella burnetii CbuK_Q154	1.00E-141	93.19
2148	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Colwelliaceae; Colwellia. Colwellia psychrerythraea 34H	5.00E-135	88.73
2149	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Thalassobium. Thalassobium sp. R2A62	9.00E-155	90.81
2154	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	3.00E-96	88.6

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
2155	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Legionellaceae; Legionella. Legionella drancourtii LLAP12	5.00E-104	89.37
2158	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Psychromonadaceae; Psychromonas. Psychromonas ingrahamii 37	1.00E-150	89.73
2159	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	2.00E-168	90.76
2160	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	0	92.42
2164	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	3.00E-145	96.72
2165	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Frankineae; Nakamurellaceae; Nakamurella. Nakamurella multipartita DSM 44233	3.00E-96	88.32
2170	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Rhodobacter. Rhodobacter sphaeroides KD131	2.00E-158	91.87
2172	Bacteria; Verrucomicrobia; Opiritae; Opiritales; Opiritaceae; Opiritus. Opiritus terrae PB90-1	1.00E-86	94.79
2173	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Hahellaceae; Hahella. Hahella chejuensis KCTC 2396	0	94.58
2174	Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae; Clostridium. Clostridium difficile QCD-66c26	6.00E-48	86.7
2175	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	99.71
2179	Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus. Bacillus atrophaeus 1942	3.00E-136	88.27
2180	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster. alpha proteobacterium HIMB114	0	99.14
2182	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Cellvibrio. Cellvibrio japonicus Ueda107	1.00E-64	84.57
2184	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella oneidensis MR-1	6.00E-79	86
2185	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Nitrococcus. Nitrococcus mobilis Nb-231	2.00E-122	87.87
2187	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Pseudoalteromonadaceae; Pseudoalteromonas. Pseudoalteromonas sp. SM9913	3.00E-148	94.57
2188	Bacteria; Planctomycetes; Planctomycetacia; Planctomycetales; Planctomycetaceae; Planctomyces. Planctomyces brasiliensis DSM 5305	1.00E-98	89.52
2190	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	3.00E-117	90.88
2192	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	1.00E-86	87.14
2195	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	2.00E-79	86.29
2200	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	6.00E-127	96.67
2206	Bacteria; Thermobaculum. Thermobaculum terrenum ATCC BAA-798	2.00E-72	86.27
2207	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	1.00E-143	96.36
2209	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Robiginitalea. Robiginitalea biformata HTCC2501	0	93.06
2211	Bacteria; Planctomycetes; Planctomycetacia; Planctomycetales; Planctomycetaceae; Planctomyces. Planctomyces brasiliensis DSM 5305	2.00E-94	85.78
2213	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. Synechococcus sp. RS9917	0	93.26
2217	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	1.00E-107	89.71
2218	Bacteria; Firmicutes; Bacillales; Paenibacillaceae; Paenibacillus. Paenibacillus sp. JDR-2	3.00E-166	96.63
2229	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; Rickettsiaceae; Rickettsiae; Rickettsia; typhus group. Rickettsia canadensis str. McKiel	6.00E-110	90.75
2239	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter carbinolicus DSM 2380	6.00E-116	90.91
2240	Bacteria; Verrucomicrobia; Opiritae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	0	96.65
2243	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. Mesorhizobium loti MAFF303099	1.00E-156	91.09
2245	Bacteria; Verrucomicrobia; Opiritae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	4.00E-80	93.06
2248	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter carbinolicus DSM 2380	2.00E-115	90.6
2252	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL1A	5.00E-168	98.02
2253	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	5.00E-156	99.66
2256	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	1.00E-122	91.35
2260	Bacteria; Bacteroidetes; Cytophagia; Cytophagales; Cytophagaceae; Spirosoma. Spirosoma linguale DSM 74	4.00E-98	88.29
2265	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Oceanicola. Oceanicola batsensis HTCC2597	0	96.11
2277	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M21	4.00E-154	95.16
2278	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	1.00E-141	93.66

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
2282	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	94.42
2283	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales; Rhodospirillaceae; Rhodospirillum. Rhodospirillum rubrum ATCC 11170	8.00E-180	92.64
2284	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Alteromonadaceae; Alteromonas. Alteromonas macleodii str. 'Deep ecotype'	2.00E-146	88.94
2286	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Dokdonia. Dokdonia donghaensis MED134	3.00E-114	92.46
2287	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter carbinolicus DSM 2380	2.00E-94	87.6
2290	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	5.00E-178	98.58
2292	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter carbinolicus DSM 2380	1.00E-141	88.57
2293	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Blattabacteriaceae; Blattabacterium. Blattabacterium sp. (Blattella germanica) str. Bge	2.00E-134	88.1
2296	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	3.00E-87	87.46
2300	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter carbinolicus DSM 2380	4.00E-89	87.43
2301	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. Mesorhizobium loti MAFF303099	5.00E-172	92.21
2303	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	0	92.01
2306	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	3.00E-96	88.32
2308	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Alkalilimnicola. Alkalilimnicola ehrlichii MLHE-1	7.00E-131	88.72
2310	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Alkalilimnicola. Alkalilimnicola ehrlichii MLHE-1	9.00E-118	87.47
2312	Bacteria; Proteobacteria; Gammaproteobacteria. gamma proteobacterium NOR51-B	6.00E-79	86.29
2321	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	94.06
2326	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Polaribacter. Polaribacter sp. MED152	0	95.22
2335	Bacteria; Bacteroidetes; Cytophagia; Cytophagales; Cytophagaceae; Cytophaga. Cytophaga hutchinsonii ATCC 33406	2.00E-134	92.59
2337	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	98.87
2339	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	4.00E-160	90.25
2343	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus subsp. marinus str. CCMP1375	0	99.35
2346	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M21	2.00E-100	88.73
2347	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella sp. ANA-3	4.00E-74	85.43
2348	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. Coxiella burnetii CbuK_Q154	1.00E-150	90.61
2355	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	99.71
2358	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella woodyi ATCC 51908	3.00E-139	88.5
2359	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Corynebacterineae; Nocardiaceae; Rhodococcus. Rhodococcus erythropolis PR4	1.00E-100	89.43
2360	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	2.00E-165	90.55
2361	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	1.00E-123	92.26
2362	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus subsp. marinus str. CCMP1375	1.00E-85	99.42
2367	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Aurantimonadaceae; Aurantimonas. Aurantimonas manganoxydans SI85-9A1	2.00E-137	93.39
2368	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	7.00E-93	100
2372	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	100
2377	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	1.00E-178	92.84
2378	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacteriales; Desulfomicrobiaceae; Desulfomicrobium. Desulfomicrobium baculatum DSM 4028	3.00E-81	86.57
2379	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	3.00E-139	88.48
2381	Bacteria; Proteobacteria; Gammaproteobacteria. gamma proteobacterium NOR51-B	1.00E-83	86.57
2382	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Legionellaceae; Legionella. Legionella drancourtii LLAP12	3.00E-65	84.12
2383	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacteriales; Desulfobacteraceae; Desulfatibacillum. Desulfatibacillum alkenivorans AK-01	2.00E-146	89.21
2385	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	2.00E-91	87.75
2386	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	6.00E-78	88.24

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
2389	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter carbinolicus DSM 2380	6.00E-94	88.24
2392	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9303	0	98.24
2396	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	100
2397	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas; Pseudomonas coronafaciens. Pseudomonas syringae pv. oryzae str. 1_6	8.00E-103	85.27
2405	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M21	8.00E-140	88.75
2410	Bacteria; Bacteroidetes; Cytophagia; Cytophagales; Flammeovirgaceae; Marivirga. Marivirga tractuosa DSM 4126	7.00E-137	93.45
2411	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	0	94.79
2414	Bacteria; Planctomycetes; Planctomycetacia; Planctomycetales; Planctomycetaceae; Blastopirellula. Blastopirellula marina DSM 3645	2.00E-171	92.09
2415	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Oxalobacteraceae; Oxalobacter. Oxalobacter formigenes HOxBLS	2.00E-85	87.61
2416	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. Coxiella burnetii CbuK_Q154	2.00E-116	90.65
2417	Bacteria; Proteobacteria; Zetaproteobacteria; Mariprofundales; Mariprofundaceae; Mariprofundus. Mariprofundus ferrooxydans PV-1	2.00E-140	93.41
2419	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	1.00E-144	94.44
2428	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacteriales; Desulfobacteraceae; Desulfococcus. Desulfococcus oleovorans Hxd3	4.00E-120	87.69
2429	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Thalassobium. Thalassobium sp. R2A62	0	96.49
2432	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	2.00E-149	93.21
2433	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	3.00E-139	93.43
2434	Bacteria; Deinococcus-Thermus; Deinococci; Deinococcales; Trueperaceae; Truepera. Truepera radiovictrix DSM 17093	1.00E-98	85.87
2435	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	2.00E-155	90.17
2437	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	3.00E-95	88.83
2440	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Alcanivoracaceae; Alcanivorax. Alcanivorax borkumensis SK2	3.00E-176	91.55
2444	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	0	99.38
2446	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella piezotolerans WP3	4.00E-160	90.12
2453	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae. Rhodobacteraceae bacterium KLH11	4.00E-163	98.12
2455	Bacteria; Firmicutes; Bacillales; Paenibacillaceae; Paenibacillus. Paenibacillus sp. Y412MC10	2.00E-85	87.54
2460	Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales; Vibrionaceae; Vibrio. Vibrio parahaemolyticus 16	0	95.62
2461	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	92.61
2471	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas. Pseudomonas stutzeri A1501	3.00E-93	87.71
2474	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Cellulophaga. Cellulophaga algicola DSM 14237	3.00E-136	88.08
2475	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella baltica OS223	8.00E-143	88.96
2476	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Kordia. Kordia algicida OT-1	7.00E-174	92.41
2482	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M21	0	92.75
2483	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfovibrionaceae; Desulfovibrio. Desulfovibrio salexigens DSM 2638	3.00E-68	85.19
2484	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Alcanivoracaceae; Alcanivorax. Alcanivorax borkumensis SK2	5.00E-73	85.8
2487	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfomicrobiaceae; Desulfomicrobium. Desulfomicrobium baculatum DSM 4028	5.00E-76	86.4
2489	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Gramella. Gramella forsetii KT0803	7.00E-131	88.26
2490	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Robiginitalea. Robiginitalea biformata HTCC2501	0	94.53
2494	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Micrococchineae; Intrasporangiaceae; Janibacter. Janibacter sp. HTCC2649	7.00E-90	88.1
2496	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Cellulophaga. Cellulophaga algicola DSM 14237	6.00E-162	91.32
2498	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	4.00E-89	87.43
2499	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Polaribacter. Polaribacter irgensii 23-P	2.00E-125	87.83
2500	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	1.00E-178	100

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
2505	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Rhodobacter. Rhodobacter sphaeroides KD131	1.00E-119	92.02
2508	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter bemidjensis Bem	1.00E-95	85.68
2513	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella sp. ANA-3	5.00E-79	86
2514	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	1.00E-160	91.21
2516	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella baltica OS223	1.00E-110	86.82
2517	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	1.00E-60	87.45
2518	Eukaryota; Alveolata; Apicomplexa; Aconoidasida; Haemosporida; Plasmodium; Plasmodium (Vinckeia). Plasmodium yoelii yoelii str. 17XNL	0	92.71
2522	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Cellulophaga. Cellulophaga lytica DSM 7489	8.00E-140	89.13
2530	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Robiginitalea. Robiginitalea biformata HTCC2501	0	94.35
2540	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	2.00E-112	90.17
2541	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfovibrionaceae; Desulfovibrio. Desulfovibrio desulfuricans subsp. desulfuricans str. ATCC 27774	5.00E-70	92.46
2549	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	99.38
2554	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	93.93
2559	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. Coxiella burnetii CbuK_Q154	3.00E-114	90.08
2563	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Ruegeria. Ruegeria pomeroyi DSS-3	0	95.67
2565	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Legionellaceae; Legionella. Legionella pneumophila 2300/99 Alcoy	3.00E-158	90.35
2568	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	96.47
2570	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9515	0	98.54
2574	Bacteria; Proteobacteria; Betaproteobacteria; Gallionellales; Gallionellaceae; Gallionella. Gallionella capsiferriformans ES-2	0	92.8
2575	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	98.28
2587	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Psychromonadaceae; Psychromonas. Psychromonas ingrahamii 37	0	93.67
2588	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella woodyi ATCC 51908	2.00E-121	91.12
2592	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	2.00E-146	94.02
2599	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	2.00E-131	89.78
2604	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	0	99.7
2606	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. Synechococcus sp. WH 7803	0	94.34
2609	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Roseovarius. Roseovarius sp. 217	6.00E-162	98.44
2611	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Robiginitalea. Robiginitalea biformata HTCC2501	2.00E-177	93.5
2616	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter propionicus DSM 2379	2.00E-131	87.97
2617	Bacteria; Chlamydiae; Chlamydiales; Waddliaceae; Waddlia. Waddlia chondrophila WSU 86-1044	1.00E-113	91.67
2625	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Cellvibrio. Cellvibrio japonicus Ueda107	3.00E-90	87.54
2629	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	99.44
2634	Bacteria; Chlamydiae; Chlamydiales; Chlamydiaceae; Chlamydomphila. Chlamydomphila abortus S26/3	3.00E-130	88.24
2638	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella amazonensis SB2B	8.00E-137	89
2640	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M21	1.00E-148	89.32
2644	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. Mesorhizobium ciceri biovar biserrulae WSM1271	2.00E-165	91.49
2645	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Gramella. Gramella forsetii KT0803	8.00E-143	89.93
2649	Bacteria; Proteobacteria; Deltaproteobacteria; Syntrophobacterales; Syntrophaceae; Syntrophus. Syntrophus aciditrophicus SB	8.00E-140	89.57
2650	Bacteria; Bacteroidetes; Flavobacteria; Flavobacteriales; Flavobacteriaceae; Polaribacter. Polaribacter sp. MED152	2.00E-121	87.85
2662	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	6.00E-131	96.84
2663	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Chelativorans. Chelativorans sp. BNC1	3.00E-148	90.48

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
2673	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	1.00E-123	91.4
2676	Bacteria; Verrucomicrobia; Verrucomicrobiae; Verrucomicrobiales. Verrucomicrobiae bacterium DG1235	2.00E-171	97.13
2677	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	0	99.75
2681	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	3.00E-176	96.59
2688	Bacteria; Proteobacteria; Betaproteobacteria; Candidatus Accumulibacter. Candidatus Accumulibacter phosphatis clade IIA str. UW-1	0	95.87
2692	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. Mesorhizobium ciceri biovar biserrulae WSM1271	1.00E-144	89.65
2693	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	95.24
2694	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	1.00E-95	88.25
2695	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	1.00E-172	94.99
2700	Bacteria; Proteobacteria; Deltaproteobacteria; Syntrophobacteriales; Syntrophobacteraceae; Syntrophobacter	4.00E-165	88.79
2701	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	1.00E-174	97.46
2710	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	1.00E-144	94.54
2711	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	6.00E-168	95.08
2712	Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales; Vibrionaceae; Vibrio. Vibrio vulnificus MO6-24/O	0	98.74
2716	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Corynebacterineae; Corynebacteriaceae; Corynebacterium. Corynebacterium kroppenstedtii DSM 44385	9.00E-96	89.02
2717	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. Mesorhizobium ciceri biovar biserrulae WSM1271	1.00E-157	91.56
2720	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	0	95.87
2721	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	9.00E-152	97.12
2733	Bacteria; Firmicutes; Clostridia; Thermoanaerobacteriales; Thermoanaerobacteraceae; Thermoanaerobacter. Thermoanaerobacter brockii subsp. finii Ako-1	3.00E-80	86.24
2736	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfovibrionaceae; Desulfovibrio. Desulfovibrio salexigens DSM 2638	9.00E-72	85.14
2738	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	2.00E-109	90.25
2740	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Thioalkalivibrio. Thioalkalivibrio sulfidophilus HL-EbGr7	1.00E-166	91.52
2742	Bacteria; Proteobacteria; Alphaproteobacteria; SAR116 cluster; Candidatus Puniceispirillum. Candidatus Puniceispirillum marinum IMCC1322	1.00E-101	88.79
2745	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	99.71
2746	Bacteria; Proteobacteria; Gammaproteobacteria. gamma proteobacterium NOR51-B	2.00E-79	86.32
2747	Bacteria; Bacteroidetes; Sphingobacteria; Sphingobacteriales; Sphingobacteriaceae; Sphingobacterium. Sphingobacterium spiritivorum ATCC 33861	1.00E-82	88.31
2751	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	3.00E-96	88.32
2760	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Hahellaceae; Hahella. Hahella chejuensis KCTC 2396	0	92.8
2766	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Leptothrix. Leptothrix cholodnii SP-6	0	94.48
2767	Bacteria; Firmicutes; Clostridia; Halanaerobiales; Halanaerobiaceae; Halothermothrix. Halothermothrix orenii H 168	2.00E-82	86.65
2768	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Thioalkalivibrio. Thioalkalivibrio sp. K90mix	8.00E-177	91.77
2776	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Frankineae; Frankiaceae; Frankia. Frankia sp. EAN1pec	2.00E-168	90.7
2777	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Thioalkalivibrio. Thioalkalivibrio sp. K90mix	0	92.18
2782	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	7.00E-128	91.95
2783	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	1.00E-113	89.08
2784	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter propionicus DSM 2379	4.00E-151	89.32
2785	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	5.00E-150	90.02
2786	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	1.00E-85	96.37
2787	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	0	95.28
2789	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	1.00E-166	91.97
2795	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Hahellaceae; Hahella. Hahella chejuensis KCTC 2396	3.00E-176	92.56

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
2797	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Cellvibrio. Cellvibrio japonicus Ueda107	1.00E-70	85.51
2804	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus subsp. marinus str. CCMP1375	0	97.24
2805	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. FRC-32	1.00E-77	86.32
2806	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter carbinolicus DSM 2380	3.00E-121	91.4
2809	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Xanthobacteraceae; Azorhizobium. Azorhizobium caulinodans ORS 571	1.00E-125	92.33
2815	Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales; Coxiellaceae; Coxiella. Coxiella burnetii CbuK_Q154	6.00E-110	89.19
2816	Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales; Xanthomonadaceae; Xanthomonas. Xanthomonas campestris pv. campestris str. B100	4.00E-89	87.46
2817	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter propionicus DSM 2379	6.00E-116	86.68
2820	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella sp. ANA-3	1.00E-95	88
2823	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	7.00E-94	88.32
2825	Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales; Sphingomonadaceae; Sphingomonas. Sphingomonas wittichii RW1	1.00E-135	89.62
2826	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacteriales; Desulfobacteraceae; Desulfococcus. Desulfococcus oleovorans Hxd3	2.00E-130	91.13
2827	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Alcanivoracaceae; Alcanivorax. Alcanivorax borkumensis SK2	1.00E-129	88.55
2828	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M21	7.00E-131	92.26
2833	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	8.00E-167	98.21
2834	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	4.00E-80	93.06
2836	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Pelobacteraceae; Pelobacter. Pelobacter carbinolicus DSM 2380	2.00E-109	89.68
2841	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacteriales; Desulfomicrobiaceae; Desulfomicrobium. Desulfomicrobium baculatum DSM 4028	5.00E-67	84.57
2842	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1062	1.00E-138	94.07
2843	Bacteria; Verrucomicrobia; Opitutae; Puniceococcales; Puniceococcaceae; Coraliomargarita. Coraliomargarita akajimensis DSM 45221	0	95.43
2849	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	2.00E-122	91.35
2851	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	1.00E-113	90.8
2852	Bacteria; Proteobacteria; Gammaproteobacteria; Oceanospirillales; Hahellaceae; Hahella. Hahella chejuensis KCTC 2396	0	92.92
2853	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	4.00E-138	91.27
2856	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	7.00E-180	99.4
2858	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	92.26
2861	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Alteromonadaceae; Alteromonas. Alteromonas macleodii str. 'Deep ecotype'	0	96.69
2867	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	1.00E-76	92.2
2869	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	0	99.71
2870	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Corynebacterineae; Nocardiaceae; Rhodococcus. Rhodococcus jostii RHA1	2.00E-100	89.43
2871	Bacteria; Planctomycetes; Planctomycetacia; Planctomycetales; Planctomycetaceae; Blastopirellula. Blastopirellula marina DSM 3645	2.00E-122	91.17
2872	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Halothiobacillaceae; Halothiobacillus. Halothiobacillus neapolitanus c2	1.00E-86	87.46
2876	Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales; Ectothiorhodospiraceae; Alkalilimnicola. Alkalilimnicola ehrlichii MLHE-1	2.00E-155	95.43
2878	Bacteria; Cyanobacteria; Chroococcales; Synechococcus. Synechococcus sp. RS9916	0	98.69
2880	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacteriales; Rhodobacteraceae; Roseibium. Roseibium sp. TrichSKD4	0	97.73
2882	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	7.00E-109	90.16
2883	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella baltica OS223	2.00E-137	89.73
2890	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M21	2.00E-91	87.71
2892	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	2.00E-108	90.75
2894	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Corynebacterineae; Nocardiaceae; Rhodococcus. Rhodococcus jostii RHA1	7.00E-106	89.63
2904	Bacteria; Planctomycetes; Planctomycetacia; Planctomycetales; Planctomycetaceae; Blastopirellula. Blastopirellula marina DSM 3645	1.00E-116	90.93
2905	Bacteria; Proteobacteria; Epsilonproteobacteria; Campylobacteriales; Helicobacteraceae; Wolinella. Wolinella succinogenes DSM 1740	6.00E-38	85.25

OTU	Phylogeny of best BLAST hit (refseq_genomic)	e value	percent identity
2910	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Bradyrhizobiaceae; Rhodopseudomonas. Rhodopseudomonas palustris BisA53	9.00E-65	85.71
2911	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Shewanellaceae; Shewanella. Shewanella baltica OS223	1.00E-83	86.57
2913	Bacteria; Cyanobacteria; Chroococcales; Cyanothece. Cyanothece sp. ATCC 51142	1.00E-165	96.87
2915	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	100
2916	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sp. M21	7.00E-94	88.29
2918	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales; Desulfovibrionaceae; Desulfovibrio. Desulfovibrio aespoensis Aspo-2	2.00E-91	88.03
2922	Bacteria; Proteobacteria; Gammaproteobacteria. gamma proteobacterium NOR51-B	3.00E-81	86.57
2924	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Brucellaceae; Brucella. Brucella abortus bv. 5 str. B3196	2.00E-134	89.63
2929	Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales; Sphingomonadaceae; Sphingopyxis. Sphingopyxis alaskensis RB2256	2.00E-149	90.22
2932	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster. alpha proteobacterium HIMB114	0	96.04
2933	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	6.00E-143	96.65
2934	Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales; Xanthomonadaceae; Xanthomonas. Xanthomonas oryzae pv. oryzae PXO99A	3.00E-132	93.29
2940	Bacteria; Firmicutes; Bacillales; Listeriaceae; Listeria. Listeria monocytogenes 08-5923	1.00E-39	85.78
2946	Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales; Geobacteraceae; Geobacter. Geobacter sulfurreducens PCA	2.00E-158	90.85
2948	Bacteria; Proteobacteria; Gammaproteobacteria. gamma proteobacterium NOR51-B	9.00E-75	86.32
2949	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium. Mesorhizobium ciceri biovar biserrulae WSM1271	7.00E-165	91.77
2953	Bacteria; Proteobacteria; Zetaproteobacteria; Mariprofundales; Mariprofundaceae; Mariprofundus. Mariprofundus ferrooxydans PV-1	6.00E-82	87.18
2954	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus subsp. marinus str. CCMP1375	0	97.96
2957	Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus. Bacillus licheniformis ATCC 14580	1.00E-132	88.2
2960	Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales; Pseudoalteromonadaceae; Pseudoalteromonas. Pseudoalteromonas sp. SM9913	0	94.57
2961	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter ubique HTCC1002	3.00E-164	91.54
2964	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	92.13
2973	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales; Rhodospirillaceae; Rhodospirillum. Rhodospirillum rubrum ATCC 11170	1.00E-101	88.64
2974	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	97.63
2981	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Corynebacterineae; Nocardiaceae; Rhodococcus. Rhodococcus jostii RHA1	7.00E-109	89.66
2983	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	5.00E-172	92.41
2985	Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae; Clostridium. Clostridium sp. SS2/1	2.00E-45	86.24
2986	Bacteria; Proteobacteria; Gammaproteobacteria; OMG group; SAR92 clade. gamma proteobacterium HTCC2207	2.00E-161	96.07
2989	Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; SAR11 cluster; Candidatus Pelagibacter. Candidatus Pelagibacter sp. HTCC7211	0	98.6
2992	Bacteria; Spirochaetes; Spirochaetales; Brachyspiraceae; Brachyspira. Brachyspira pilosicoli 95/1000	1.00E-33	85.15
2994	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. NATL2A	0	98.54
2997	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	0	99.71
3002	Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae; Prochlorococcus. Prochlorococcus marinus str. MIT 9202	2.00E-156	89.88