

Table 3: Genome highlights from the Campylobacteriales bacteria found on *Osedax*, compared to the genomes of 6 closest relatives, both cultured and uncultured from the deep sea. For a complete list of comparison genomes and genomic features see Tables S1-S5.

Bacterial ID	Genome size (bp)	# secreted proteins	% of SP with ELP	# insertion sequences	% IS (by length)
<i>Arcobacter</i> epibiont	2901687	349	59.3	227	4.5
<i>Arcobacter anaerophilus</i> (CP041070_0)	3016922	159	13.2	10	0.6
<i>Arcobacter aquamarinus</i> (CP042812_0)	2829476	175	8.0	8	0.5
<i>Arcobacter butzleri</i> (CP000361_0)	2341251	146	2.7	3	0.4
<i>Pseudoarcobacter acticola</i> (CP042652_0)	3019071	256	36.7	105	4.2
GCA_000585115.1	2287768	185	6.5	7	0.8
GCA_000585155.1	2496885	178	12.9	27	1.3
<i>Sulfurospirillum</i> epibiont	2726105	313	41.5	205	6.5
<i>Sulfurospirillum deleyianum</i> (GCA_000024885)	2306351	97	32.0	35	1.7
<i>Sulfurospirillum multivorans</i> (GCA_000568815)	3175729	204	48.0	73	2.4
GCA_000265295.1	2510109	90	23.3	13	0.9
GCA_002205395.1	2876607	176	41.5	8	0.4
GCA_002309535.1	2814086	148	35.1	20	0.7
GCA_008083195.1	3181530	202	47.5	67	2.3
<i>Sulfurimonas</i> epibiont (HC)	2827517	255	46.3	68	2.5
<i>Sulfurimonas</i> epibiont (LC)	2607188	196	30.6	41	2.2
<i>Sulfurimonas autotrophica</i> (CP002205)	2153198	112	20.5	11	1.1
<i>Sulfurimonas denitrificans</i> (CP000153)	2201561	112	13.4	8	0.9
<i>Sulfurimonas sediminis</i> (CP041235_0)	2320257	154	39	76	2.9
GCA_000242915.2	2952682	321	62	24	0.7
GCA_000445475.1	2302023	106	17	9	0.6
GCA_009192995.1	2093483	106	14.2	6	0.8