

Table S4**Archaea. Longest satellites**

Species	Code	Satellite Start	Satellite Length	Number of repeats	Repeat length	Ni	Score
NC_018876.1_Methanobrevibacterium_thermautotrophicum_str._Delta_H	74	3058409	3921	23	147	14	0.6907
NC_015416.1_Methanohalobium_evestigatum_str._ATCC_35061 Methanosaeta concilii GP-6	97	2497766	3826	12	255	9	0.6354
NZ_CP009515.1_Methanosarcina_lacustris_Z-7289	84	506749	3278	53	39	46	0.888
NC_007796.1_Methanospirillum_hungatei_JF-1	91	1464547	2875	55	42	42	0.6057
NZ_CP009506.1_Methanosarcina_siciliae_T4/M	86	2150348	2431	11	126	7	0.6792
NZ_CP009516.1_Methanosarcina_horonobensis_HB-1	83	4033713	2314	8	255	5	0.6639
NZ_CP009506.1_Methanosarcina_siciliae_T4/M	86	1980464	2125	14	108	10	0.5935
NZ_CP009515.1_Methanosarcina_lacustris_Z-7289	84	2396966	2017	8	252	8	0.8863
NZ_CP009520.1_Methanosarcina_vacuolata_Z-761	88	3931052	1960	16	108	14	0.8677
NZ_CP009520.1_Methanosarcina_vacuolata_Z-761	88	3373643	1954	18	93	14	0.7334
NZ_CP009528.1_Methanosarcina_barkeri_MS	82	2243257	1855	14	123	10	0.7445
NC_015574.1_Methanobacterium_paludis_SWAN1	47	1056639	1849	20	69	12	0.6498
NC_003552.1_Methanosarcina_acetivorans_str._C2A	80	3137895	1843	15	123	14	0.7496
NC_003552.1_Methanosarcina_acetivorans_str._C2A	80	2347432	1816	7	255	5	0.6062
NZ_CP009501.1_Methanosarcina_thermophila_TM-1	87	1491871	1804	8	255	5	0.7089
NZ_CP009516.1_Methanosarcina_horonobensis_HB-1	83	4667608	1798	7	258	5	0.5873
NC_015416.1_Methanohalobium_evestigatum_str._ATCC_35061 Methanosaeta concilii GP-6	97	2581430	1639	12	126	11	0.7916
NZ_CP009528.1_Methanosarcina_barkeri_MS	82	2957391	1600	13	123	10	0.7408
NC_003552.1_Methanosarcina_acetivorans_str._C2A	80	4063362	1585	11	144	11	0.8648
NZ_CP009520.1_Methanosarcina_vacuolata_Z-761	88	912557	1579	6	264	5	0.9333
NC_017527.1_Methanosaeta_harundinacea_6Ac	78	1496150	1564	10	150	9	0.7904
NC_003552.1_Methanosarcina_acetivorans_str._C2A	80	2350333	1561	10	126	6	0.4655
NZ_CP009520.1_Methanosarcina_vacuolata_Z-761	88	598900	1548	6	258	5	0.9494
NZ_CP009528.1_Methanosarcina_barkeri_MS	82	1451926	1516	6	246	4	0.9106
NZ_CP009520.1_Methanosarcina_vacuolata_Z-761	88	2165164	1513	13	108	10	0.6825
NC_017527.1_Methanosaeta_harundinacea_6Ac	78	2246493	1513	11	126	10	0.776
NC_007796.1_Methanospirillum_hungatei_JF-1	91	1468566	1495	6	249	4	0.8522

Bacteria. Longest satellites

NCBI code	Species Code	Satellite Start	Satellite Length	Nr repeats	Repeat length	Ni	Score
NC_009613	52	2274517	5662	20	297	14	0.9911
NC_004567	65	1197875	4753	200	18	139	0.7437
NC_004113	113	1066146	3898	28	138	22	0.7964
NC_002967	116	367152	3762	58	66	55	0.2611
NC_006841	120	1309867	3565	14	255	9	0.8117
NC_004116	103	448190	3319	14	237	14	1
NC_015663	61	3319081	3043	147	18	121	0.7717
NC_009613	52	888739	2920	12	243	11	0.9733
NC_002516	85	5187169	2905	12	243	8	0.8323
NC_004605	122	1426926	2833	10	228	6	0.9739
NC_009009	108	808979	2665	56	36	34	0.7142
NC_003902	123	611083	2641	46	48	38	0.5476
NC_007005	87	1808215	2545	36	48	25	0.5567
NC_005957	10	3540669	2521	56	45	45	0.8278
NC_011661	43	1306108	2495	14	156	10	0.7726
NC_006055	72	518523	2467	10	261	9	0.9879
NC_010175	33	3822728	2377	12	198	9	0.7385
NC_010175	33	4575796	2269	18	126	18	0.8689
NC_016603	1	2278104	2077	5	258	3	0.7588
NC_004342	69	2941021	2014	17	69	11	0.6251
NC_007929	66	120838	1899	28	66	27	0.2806
NC_010175	33	324795	1882	25	48	17	0.9252
NC_004342	69	3289635	1757	14	69	9	0.6714
NC_009636	99	3729038	1756	8	219	5	0.7204
NC_007005	87	5621795	1755	15	118	11	0.9441
NC_014318	4	341402	1723	10	153	9	0.3366
NC_013853	104	1548744	1711	18	54	13	0.8873
NC_007644	74	505880	1656	23	72	16	0.3241
NC_004116	103	908162	1651	25	66	23	0.3432
NC_013853	104	1716731	1549	27	48	22	0.5148
NC_009009	108	666850	1537	6	252	4	0.7756
NC_009613	52	1325546	1516	20	76	15	0.4394