

ATGC	GENERA	Total Branch Length	Tree Depth	Total inferred number				Rate per substitution per site				Rate per substitution per gene				Principal components				Total Flux rate	Balance Ratio	Pangenome	Number of non-ancestral gains	Number of multiple non-ancestral gains	Supergenome estimate, uniform distribution			Supergenome estimate, power law distribution		Supergenome estimate, binomial mixture		Supergenome estimate, capture-recapture	Number of genomes	Median genome Size			Median GC content	Median dN/dS	Synteny distance (dY) at 0.01 dNT	Lifestyle	
				Gain	Loss	Expansion	Reduction	Gain	Loss	Expansion	Reduction	Gain	Loss	Expansion	Reduction	PC1	PC2	PC3	PC4						Size	Confidence interval width	Relative to genome size	Size	Exponent	Relative to genome size	Size			Number of categories	bp	Protein-coding genes					Gene Families
ATGC001	Citrobacter-Enterobacter-Escherichia-Salmonella-Shigella	1.689	0.183	31359	85342	3149	7441	18562.6	50516.8	1863.8	4404.7	17.306	47.098	1.738	4.107	-1.361	0.275	0.694	0.238	75348	0.372	24845	28950	10059	37267	458	8.84	45092	0.44	10.70	33452	6	55175	109	4989733	4652	4215	0.528	0.045	0.04255	facultative host-associated
ATGC002	Enterobacter-Klebsiella	0.350	0.066	9050	2256	670	83	25865.7	6447.7	1914.3	236.7	24.475	6.101	1.811	0.224	0.898	2.117	-0.711	0.165	34464	4.156	10802	8922	2429	17560	429	3.35	18403	0.23	3.52	14326	4	17357	11	5680456	5375	5234	0.583	0.039	0.00819	facultative host-associated
ATGC003	Streptococcus	0.208	0.067	2479	11153	285	1061	11893.5	53500.2	1368.4	5091.6	11.783	53.004	1.356	5.044	-1.040	-0.325	0.922	0.244	71854	0.226	4478	2117	482	6754	297	3.34	6754	0.00	3.34	5907	6	7051	22	2133789	2114	2020	0.408	0.182	0.04313	free-living
ATGC004	Streptococcus	0.264	0.094	1485	7707	422	787	5632.8	29232.9	1600.8	2984.4	5.500	28.543	1.563	2.914	-0.198	-0.864	0.212	0.540	39451	0.225	3746	1209	167	6664	554	3.69	6664	0.00	3.69	5872	5	5332	22	1910066	1865	1808	0.395	0.176	0.03210	free-living
ATGC005	Streptococcus	0.106	0.023	1260	4456	396	251	11939.7	42215.0	3755.0	2379.5	11.322	40.030	3.561	2.256	-1.206	0.003	-0.439	0.292	60289	0.352	3466	1186	124	7669	877	3.94	7669	0.00	3.94	4688	5	5814	16	2084900	1977	1948	0.422	0.093	0.01850	free-living
ATGC014	Bacillus	0.459	0.073	11687	35535	1786	3168	25485.4	77488.3	3895.5	6908.0	25.539	77.651	3.904	6.922	-2.422	0.426	0.305	0.325	113777	0.348	16678	10985	1514	43303	1676	7.83	43303	0.00	7.83	26600	6	37108	31	5691541	5704	5533	0.361	0.054	0.02911	free-living
ATGC015	Bacillus	0.658	0.223	4292	16649	529	884	6521.1	25293.2	803.6	1342.8	6.562	25.453	0.809	1.351	0.611	-0.467	0.596	0.018	33961	0.275	9242	4094	162	55655	7699	14.00	78848	0.36	19.83	67131	7	18605	24	4063283	4089	3976	0.459	0.058	0.01422	free-living
ATGC021	Chlamydia	0.029	0.004	471	748	12	7	16346.1	25967.5	418.8	240.0	14.033	22.293	0.360	0.206	1.343	1.029	0.833	-1.202	42972	0.640	1168	439	193	1260	31	1.40	1344	0.51	1.49	1303	5	1567	44	1046020	898	901	0.417	0.429	0.00275	intracellular parasite
ATGC022	Chlamydia-Chlamydophila	0.116	0.046	628	1295	140	61	5434.3	11201.6	1212.8	524.3	5.232	10.784	1.168	0.505	1.308	-0.148	-0.376	0.252	18373	0.567	1441	536	163	1758	83	1.74	1759	0.00	1.74	1576	5	1792	19	1169029	1126	1011	0.397	0.400	0.00840	intracellular parasite
ATGC025	Mycobacterium	0.110	0.007	5579	8218	561	407	50822.9	74867.5	5109.4	3708.1	45.888	67.598	4.613	3.348	-2.635	1.430	-0.001	0.010	134508	0.712	7293	5264	1850	9484	190	2.47	13514	0.63	3.52	13106	6	17474	32	4409130	3981	3836	0.659		0.03113	facultative host-associated
ATGC033	Mycoplasma	0.026	0.013	152	216	64	14	5864.8	8335.1	2483.7	547.6	4.611	6.553	1.953	0.431	0.952	0.064	-1.086	0.678	17231	0.940	883	178	14	1784	539	2.40	1785	0.00	2.41	901	3	901	11	968554	762	742	0.319			facultative host-associated
ATGC046	Rickettsia	0.482	0.097	3222	11422	157	362	6677.0	23673.5	324.6	750.0	7.440	26.379	0.362	0.836	1.477	-0.309	1.258	-0.492	31425	0.287	4454	3109	344	14677	1293	13.26	24011	0.47	21.69	7280	6	11509	40	1233088	1374	1107	0.322	0.117	0.05306	intracellular parasite
ATGC052	Helicobacter	1.157	0.117	4320	9597	333	1127	3732.7	8293.4	287.7	973.6	3.584	7.964	0.276	0.935	2.284	-0.720	1.164	0.450	13287	0.434	4568	3978	1351	6377	179	4.25	7246	0.40	4.83	8632	6	11675	51	1628207	1564	1501	0.397	0.160	0.00712	facultative host-associated
ATGC054	Staphylococcus	0.085	0.014	1834	12525	249	1849	21511.8	146937.4	2923.8	21695.6	19.886	135.834	2.703	20.056	-3.023	-0.300	1.098	0.404	193069	0.145	4815	1917	334	8071	464	3.29	8322	0.20	3.39	5792	7	7074	41	2837953	2624	2452	0.337	0.100	0.04813	free-living
ATGC056	Lactobacillus	0.316	0.147	1078	5540	345	99	3417.1	17553.4	1093.8	313.6	3.341	17.160	1.069	0.307	1.602	-0.722	-0.591	-0.316	22378	0.252	4893	1055	0 open						5784	4	6340	10	3024728	2957	2896	0.473	0.033	0.04546	free-living	
ATGC067	Corynebacterium	0.025	0.009	253	3690	40	19	10013.0	146236.3	1581.7	734.4	9.006	131.524	1.423	0.661	-0.691	-0.361	0.022	-1.447	158565	0.079	2721	287	0 open						3144	5	3588	15	2322675	2089	2074	0.530	0.136	0.00693	free-living	
ATGC068	Corynebacterium	0.081	0.012	431	6691	188	356	5337.6	82891.0	2334.8	4413.8	4.894	76.005	2.141	4.047	-1.146	-1.362	0.109	0.097	94977	0.088	3453	499	0 open						3889	4	4519	12	2466919	2262	2227	0.543	0.111	0.01556	free-living	
ATGC072	Pseudomonas	0.550	0.107	5760	14042	1190	972	10466.9	25516.1	2162.0	1766.2	9.248	22.545	1.910	1.561	-0.384	0.067	-0.119	0.368	39911	0.463	11389	5603	129	125699	20767	23.73	125700	0.00	23.73	24983	5	28686	12	6095696	5386	5297	0.633	0.033	0.02630	free-living
ATGC082	Clostridium	0.117	0.024	843	9655	437	120	7222.7	82676.3	3745.0	1030.4	6.623	75.815	3.434	0.945	-0.926	-0.604	-0.878	-0.576	94674	0.131	5993	1007	0 open						9718	5	8607	10	4025029	3691	3655	0.292	0.099	0.01886	free-living	
ATGC089	Burkholderia	0.117	0.024	4630	29516	583	400	39592.8	252405.6	4988.0	3417.1	35.492	226.265	4.471	3.063	-3.105	0.745	0.053	-0.894	300403	0.174	13381	4901	12 open						30825	5	30581	13	6406482	5743	5707	0.688	0.077	0.05573	free-living	
ATGC090	Burkholderia	0.389	0.070	5936	21057	1781	639	15276.1	54191.8	4582.4	1643.7	13.586	48.196	4.075	1.462	-1.418	0.316	-0.682	-0.061	75694	0.356	14540	6508	0 open						23983	5	28567	12	7530187	6697	6428	0.678	0.057	0.00406	free-living	
ATGC094	Sulfolobus	0.162	0.071	963	6893	635	266	5955.8	42639.2	3930.5	1643.1	6.064	43.415	4.002	1.673	-0.722	-0.729	-0.876	0.190	54169	0.223	4471	986	0 open						5629	5	6483	12	2686155	2735	2638	0.356	0.231	0.07020	free-living	
ATGC105	Bifidobacterium	0.287	0.117	2983	3202	188	235	10383.5	11147.5	654.8	817.4	8.342	8.955	0.526	0.657	1.173	0.479	0.648	0.239	23003	0.923	4352	2913	411	11174	829	5.72	11174	0.00	5.72	30285	5	6607	11	2454110	1972	1952	0.609	0.086	0.07281	facultative host-associated
ATGC106	Bifidobacterium	0.047	0.023	523	781	35	38	11039.4	16473.2	742.2	811.7	8.922	13.314	0.600	0.656	0.858	0.428	0.588	-0.022	29067	0.682	2018	452	32	4631	1020	2.95	5619	0.37	3.58	2221	4	2363	10	1938894	1567	1568	0.615			facultative host-associated
ATGC109	Listeria	0.656	0.168	5021	2239	362	136	7650.2	3411.0	551.3	207.2	7.536	3.360	0.543	0.204	2.698	0.861	-0.009	0.371	11820	2.267	5834	4899	1623	8207	210	2.89	11712	0.59	4.12	6625	6	6881	31	2934366	2891	2843	0.385	0.030	0.01692	free-living
ATGC121	Shewanella	0.644	0.172	5522	3438	626	224	8575.7	5339.8	972.9	348.5	7.295	4.543	0.828	0.296	1.802	0.738	-0.265	0.459	15237	1.679	8090	5274	1024	15597	633	3.74	15929	0.16	3.82	58299	5	13057	14	5125160	4360	4166	0.475	0.045	0.02065	free-living
ATGC128	Yersinia	0.238	0.102	4821	9403	570	564	20234.4	39460.0	2390.6	2368.8	17.546	34.216	2.073	2.054	-1.145	0.632	0.181	0.149	64454	0.541	8287	4421	729	16479	778	4.19	20747	0.41	5.27	1007										