

Table 1. Various statistics of prokaryotic genomes

Species	Genome size (kb)	No. of genes	Gene density (per 1 kb)	Fraction of non-coding DNA
<i>Aeropyrum pernix</i>	1670	1688	1.01	0.14
<i>Sulfolobus solfataricus</i>	2592	3012	1.16	0.15
<i>Sulfolobus tokodaii</i>	2695	2956	1.10	0.15
<i>Methanococcus jannaschii</i>	1665	1828	1.10	0.12
<i>Methanobacterium thermoautotrophicum</i>	1751	1917	1.09	0.09
<i>Pyrococcus horikoshii</i>	1739	1796	1.03	0.09
<i>Pyrococcus abyssi</i>	1765	1802	1.02	0.08
<i>Archaeoglobus fulgidus</i>	2178	2467	1.13	0.07
<i>Thermoplasma acidophilum</i>	1565	1528	0.98	0.12
<i>Thermoplasma volcanium</i>	1585	1548	0.98	0.14
<i>Halobacterium</i> sp. ^a	2570	2640	1.03	0.14
<i>Escherichia coli</i> K12	4639	4375	0.94	0.12
<i>Buchnera</i> sp.	641	610	0.95	0.12
<i>Salmonella typhi</i>	4809	4696	0.98	0.13
<i>Vibrio cholerae</i> ^a	4033	3949	0.98	0.13
<i>Yersinia pestis</i>	4654	4096	0.88	0.19
<i>Haemophilus influenzae</i>	1830	1746	0.96	0.11
<i>Pasteurella multocida</i>	2258	2064	0.91	0.10
<i>Pseudomonas aeruginosa</i>	6264	5642	0.90	0.10
<i>Xylella fastidiosa</i>	2679	2886	1.08	0.16
<i>Neisseria meningitidis</i> MC58	2272	2150	0.95	0.20
<i>Caulobacter crescentus</i>	4017	3782	0.94	0.09
<i>Mesorhizobium loti</i> ^a	7596	7296	0.96	0.14
<i>Sinorhizobium meliloti</i> ^a	6691	6258	0.94	0.13
<i>Agrobacterium tumefaciens</i> ^a	5674	5357	0.94	0.10
<i>Rickettsia prowazekii</i>	1112	920	0.83	0.24
<i>Rickettsia conorii</i>	1269	1402	1.11	0.19
<i>Helicobacter pylori</i>	1668	1532	0.92	0.09
<i>Campylobacter jejunii</i>	1642	1677	1.02	0.06
<i>Bacillus subtilis</i>	4215	4233	1.00	0.12
<i>Bacillus halodurans</i>	4201	4182	1.00	0.14
<i>Lactococcus lactis</i>	2366	2355	1.00	0.14
<i>Staphylococcus aureus</i>	2878	2788	0.97	0.16
<i>Streptococcus pyogenes</i>	1852	1768	0.96	0.16
<i>Streptococcus pneumoniae</i>	2039	2113	1.04	0.17
<i>Clostridium acetobutylicum</i>	3941	3777	0.96	0.13
<i>Mycoplasma pneumoniae</i>	816	721	0.88	0.08
<i>Mycoplasma genitalium</i>	580	517	0.89	0.08
<i>Mycoplasma pulmonis</i>	964	807	0.84	0.10
<i>Ureaplasma urealyticum</i>	752	650	0.86	0.08
<i>Mycobacterium tuberculosis</i>	4404	3961	0.90	0.09
<i>Mycobacterium leprae</i>	3288	1653	0.50	0.50
<i>Synechocystis</i> PCC6803	3574	3203	0.90	0.12
<i>Deinococcus radiodurans</i> ^a	3242	3229	1.00	0.10
<i>Borrelia burgdorferi</i>	911	874	0.96	0.14
<i>Treponema pallidum</i>	1114	1084	0.97	0.07
<i>Chlamydomonada pneumoniae</i>	1230	1094	0.89	0.11
<i>Chlamydia trachomatis</i>	1043	935	0.90	0.09
<i>Aquifex aeolicus</i>	1551	1606	1.04	0.07
<i>Thermotoga maritima</i>	1861	1906	1.02	0.05

^aSeveral chromosomes or large extrachromosomal elements were included in the analysis.