Supplementary Information

A Physico-Chemical Model for Analyzing DNA Sequences

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Table S1. Gene evaluation data as obtained with the physico-chemical model for 331 prokaryotic genomes for experimentally verified gene (non-overlapping) and non-genes (frame-shifted genes).

S.No.	NCBI_ID	Species Name	Genes	TP [#]	FP [#]	SS [#]	SP [#]	CC [#]
1	NC_000117	<i>Chlamydia trachomatis</i>	463	458	4	0.98	.99	0.98
2	NC_000853	<i>Thermotoga maritima</i> MSB8	641	619	3	0.96	0.99	0.96
3	NC_000854	<i>Aeropyrum pernix</i> K1	561	532	7	0.94	0.98	0.93
4	NC_000868	<i>Pyrococcus abyssi</i> GE5	632	630	241	0.99	0.63	0.49
5	NC_000907	<i>Haemophilus influenzae</i>	955	953	7	0.99	0.99	0.99
6	NC_000908	<i>Mycoplasma genitalium</i> G-37	189	186	2	0.98	0.98	0.97
7	NC_000909	<i>Methanocaldococcus janaschii</i>	720	708	9	0.98	0.98	0.97
8	NC_000912	<i>Mycoplasma pneumoniae</i> M129	243	241	2	0.99	0.99	0.98
9	NC_000913	<i>Escherichia coli</i> K12	2759	175	659	0.63	0.72	0.39
10	NC_000915	<i>Helicobacter pylori</i>	731	727	4	0.99	.99	0.98
11	NC_000916	<i>Methanobacterium thermoautotrophicum</i>	719	711	4	0.98	0.99	0.98
12	NC_000917	<i>Archaeoglobus fulgidus</i>	782	774	8	0.98	0.98	0.97
13	NC_000917	<i>Archaeoglobus fulgidus</i> DSM4304	782	774	8	0.98	0.98	0.98
14	NC_000918	<i>Aquifex aeolicus</i> VF5	584	575	3	0.98	0.99	0.97
15	NC_000921	<i>Helicobacter pylori</i> strain J99	658	648	9	0.98	0.98	0.97
16	NC_000922	<i>Chlamydophila pneumoniae</i> CWL029	597	590	9	0.98	0.98	0.97
17	NC_000948	<i>Borrelia burgdorferi</i> B31 plsmids cp32-1	11	11	0	1.0	1.0	1.0

18	NC_000949	<i>Borrelia burgdorferi</i> B31 plsmids cp32-3	11	11	0	1.0	1.0	1.0
19	NC_000950	<i>Borrelia burgdorferi</i> B31 plsmids cp32-4	11	11	0	1.0	1.0	1.0
20	NC_000951	<i>Borrelia burgdorferi</i> B31 plsmids cp32-6	10	10	0	1.0	1.0	1.0
21	NC_000952	<i>Borrelia burgdorferi</i> B31 plsmids cp32-7	11	11	0	1.0	1.0	1.0
22	NC_000953	<i>Borrelia burgdorferi</i> B31 plsmids cp32-8	11	11	0	1.0	1.0	1.0
23	NC_000954	<i>Borrelia burgdorferi</i> B31 plsmids cp32-9	12	12	0	1.0	1.0	1.0
24	NC_000955	<i>Borrelia burgdorferi</i> B31 plsmids lp21	1	1	0	1.0	1.0	1.0
25	NC_000956	<i>Borrelia burgdorferi</i> B31 plsmids lp56	14	14	0	1.0	1.0	1.0
26	NC_000957	<i>Borrelia burgdorferi</i> B31 plsmids lp51	1	1	0	1.0	1.0	1.0
27	NC_000958	<i>Deinococcus radiodurans</i> R1 plasmid MP1	50	50	0	1.0	1.0	1.0
28	NC_000959	<i>Deinococcus radiodurans</i> R1 plasmid CP1	13	13	0	1.0	1.0	1.0
29	NC_000961	<i>Pyrococcus horikoshii</i> OT3	470	242	18	0.51	0.93	0.53
30	NC_000962	<i>Mycobacterium tuberculosis</i> H37RV	2003	1979	22	0.98	0.98	0.97
31	NC_000963	<i>Rickettsia prowazekii</i> str. Madrid E	447	447	2	1.0	0.99	0.99
32	NC_000964	<i>Bacillus subtilis</i> str.168	1113	612	382	0.45	0.56	0.09
33	NC_001263	<i>Deinococcus radiodurans</i> chromosome 1	1066	1065	2	0.99	0.99	0.99
34	NC_001264	<i>Deinococcus radiodurans</i> R1 chromosome 2	129	128	2	0.99	0.99	0.99
35	NC_001318	<i>Borrelia burgdorferi</i> B31	407	404	1	0.99	0.99	0.99
36	NC_001732	<i>Methanocaldococcus janaschii</i> DSM 2661 extrachromosomal	11	11	0	1.0	1.0	1.0
37	NC_001850	<i>Borrelia burgdorferi</i> B31 plsmids lp25	3	3	0	1.0	1.0	1.0
38	NC_001851	<i>Borrelia burgdorferi</i> B31 plsmids lp28-1	2	2	0	1.0	1.0	1.0
39	NC_001852	<i>Borrelia burgdorferi</i> B31 plsmids lp28-2	2	2	0	1.0	1.0	1.0
40	NC_001853	<i>Borrelia burgdorferi</i> B31 plsmids lp28-3	2	2	0	1.0	1.0	1.0
41	NC_001854	<i>Borrelia burgdorferi</i> B31 plsmids lp28-4	4	4	0	1.0	1.0	1.0

42	NC_001855	<i>Borrelia burgdorferi</i> B31 plsmids lp36	8	8	0	1.0	1.0	1.0
43	NC_001856	<i>Borrelia burgdorferi</i> B31 plsmids lp38	3	3	0	1.0	1.0	1.0
44	NC_001857	<i>Borrelia burgdorferi</i> B31 plsmids lp54	19	19	0	1.0	1.0	1.0
45	NC_001869	<i>Halobacterium</i> sp. NRC-1 plasmid pNRC100	3	3	0	1.0	1.0	1.0
46	NC_001880	<i>Aquifex aeolicus</i> VF5 plasmid ecel	1	1	0	1.0	1.0	1.0
47	NC_001903	<i>Borrelia burgdorferi</i> plasmid cp26	9	9	0	1.0	1.0	1.0
48	NC_001904	<i>Borrelia burgdorferi</i> B31 plasmid cp9	2	2	0	1.0	1.0	1.0
49	NC_001988	<i>Clostridium acetobutylicum</i> ATCC 824 plasmid pSOL1	137	136	0	0.99	0.99	0.99
50	NC_002127	<i>Escherichia coli</i> O157:H7 plasmid pOSAKI	1	1	0	1.0	1.0	1.0
51	NC_002128	<i>Escherichia coli</i> O157:H7 plasmid p0157	34	32	1	0.94	0.96	0.90
52	NC_002162	<i>Ureaplasma parvum</i> serovar 3 str.ATCC 700970	323	321	0	0.99	1.0	0.99
53	NC_002163	<i>Campylobacter jejuni</i> subsp.jejuni NCTC 11168	730	720	5	0.98	0.99	0.97
54	NC_002179	<i>Chlamydomydia pneumoniae</i> AR39	439	437	2	0.99	0.99	0.99
55	NC_002182	<i>Chlamydia muridarum</i> plasmid pMOPn	5	5	0	1.0	1.0	1.0
56	NC_002252	<i>Buchnera aphidicola</i> str.APS plasmid pTrp	3	3	0	1.0	1.0	1.0
57	NC_002253	<i>Buchnera aphidicola</i> str.APS plasmid pLeu	4	4	0	1.0	1.0	1.0
58	NC_002488	<i>Xylella fastidiosa</i> 9a5c	990	988	3	0.99	0.99	0.99
59	NC_002489	<i>Xylella fastidiosa</i> 9a5c plasmid pXF1.3	1	1	0	1.0	1.0	1.0
60	NC_002491	<i>Neisseria meningitidis</i> MC58	611	604	8	0.98	0.98	0.97
61	NC_002505	<i>Vibrio cholerae</i> O1 biovar eltor str.N16961 chromosome I	1365	1357	4	0.99	0.99	0.99
62	NC_002506	<i>Vibrio cholerae</i> O1 biovar eltor str.N16961 chromosome II	444	443	2	0.99	0.99	0.99
63	NC_002528	<i>Staphylococcus aureus</i> Mu50 chromosome	413	407	3	0.98	0.99	0.97
64	NC_002570	<i>Bacillus halodurans</i>	1731	892	244	0.51	0.78	0.39
65	NC_002607	<i>Halobacterium</i> sp. NRC-1	736	736	0	1.0	1.0	1.0

66	NC_002608	<i>Porphyromonas gingivalis</i> W83	78	78	0	1.0	1.0	1.0
67	NC_002620	<i>Xylella fastidiosa</i> chromosome	421	419	2	0.99	0.99	0.99
68	NC_002655	<i>Escherichia coli</i> O157:H7 EDL933	2728	2692	36	0.98	0.98	0.97
69	NC_002662	<i>Lactococcus lactis</i>	1151	1146	4	0.99	0.99	0.99
70	NC_002663	<i>Pasteurella multocida</i> subsp. <i>Multocida</i> str. Pm 70	917	914	3	0.99	0.99	0.99
71	NC_002677	<i>Mycobacterium leprae</i> TN	1722	1405	288	0.81	0.82	0.64
72	NC_002678	<i>Mesorhizobium loti</i>	2841	1820	699	0.64	0.72	0.38
73	NC_002679	<i>Streptococcus agalactiae</i> NEM316	101	101	0	1.0	1.0	1.0
74	NC_002682	<i>Streptococcus agalactiae</i> 2603	57	57	0	1.0	1.0	1.0
75	NC_002689	<i>Thermoplasma volcanium</i> GSS1	921	906	12	0.98	0.98	0.97
76	NC_002695	<i>Escherichia coli</i> O157:H7	2478	2447	36	0.98	0.98	0.97
77	NC_002696	<i>Caulobacter crescentus</i>	1773	1772	1	0.99	0.99	0.99
78	NC_002737	<i>Streptococcus pyogenes</i> M1 GAS	847	847	8	1.0	0.99	0.99
79	NC_002745	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> N315	690	690	8	1.0	0.98	0.98
80	NC_002754	<i>Sulfolobus solfataricus</i> P2	1143	1126	378	0.98	0.74	0.68
81	NC_002755	<i>Mycobacterium tuberculosis</i> CDC1551	1673	1665	9	0.99	0.99	0.98
82	NC_002758	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> Mu50	1340	1338	9	0.99	0.99	0.99
83	NC_002771	<i>Mycoplasma pulmonis</i> UAB CTIP	325	320	4	0.98	0.98	0.97
84	NC_002774	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> Mu50 plasmid VRSAp	16	16	0	1.0	1.0	1.0
85	NC_002490	<i>Xylella fastidiosa</i> 9a5c plasmid pXF51	19	19	0	1.0	1.0	1.0
86	NC_002927	<i>Bordetella bronchiseptica</i>	2727	2719	7	0.99	0.99	0.99
87	NC_002928	<i>Bordetella parapertussis</i>	2437	2403	31	0.98	0.98	0.97
88	NC_002929	<i>Bordetella pertussis</i> Tohama I	2102	2100	3	0.99	0.99	0.99
89	NC_002932	<i>Chlorobium tepidum</i> TLS	1094	1092	4	0.99	0.99	0.99

90	NC_002935	<i>Corynebacterium diphtheriae</i>	1313	1307	10	0.99	0.99	0.98
91	NC_002936	<i>Dehalococcoides ethenogenes</i> 195	844	838	6	0.99	0.99	0.98
92	NC_002937	<i>Desulfovibrio vulgaris</i> subsp. <i>vulgaris</i> str. <i>Hildenborough</i>	1764	1760	3	0.99	0.99	0.99
93	NC_002939	<i>Geobacter sulfurreducens</i> PCA	1916	1912	7	0.99	0.99	0.99
94	NC_002940	<i>Haemophilus ducreyi</i> 35000HP	950	944	10	0.99	0.98	0.98
95	NC_002942	<i>Legionella pneumophila</i> subsp. <i>pneumophila</i> str. <i>Philadelphia 1</i>	1420	1414	9	0.99	0.99	0.98
96	NC_002944	<i>Mycobacterium avium</i> paratuberculosis	964	961	3	0.99	0.99	0.99
97	NC_002945	<i>Mycobacterium bovis</i> subsp. <i>bovis</i> AF2122/97	1938	1927	17	0.98	0.99	0.98
98	NC_002947	<i>Pseudomonas putida</i> KT2440	2862	2850	12	0.99	0.99	0.99
99	NC_002950	<i>Porphyromonas gingivalis</i> W83	1035	1035	5	1.0	0.99	0.99
100	NC_002951	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> COL	1376	1372	9	0.99	0.99	0.99
101	NC_002952	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> MRSA252	1507	1492	19	0.99	0.98	0.97
102	NC_002953	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> MSSA476	1457	1452	19	0.99	0.98	0.98
103	NC_002967	<i>Treponema denticola</i> ATCC 35405	1234	1232	3	0.99	0.99	0.99
104	NC_002971	<i>Coxiella burnetii</i>	830	826	9	0.99	0.98	0.98
105	NC_002973	<i>Listeria monocytogenes</i> str. 4b F2365	1654	1652	8	0.99	0.99	0.99
106	NC_002976	<i>Staphylococcus epidermidis</i> RP62A	1329	1321	6	0.99	0.99	0.98
107	NC_002977	<i>Methylococcus capsulatus</i> str. <i>Bath</i>	1522	1520	3	0.99	0.99	0.99
108	NC_002978	<i>Wolbachia endosymbiont of Drosophila melanogaster</i>	604	603	21	0.99	0.96	0.96
109	NC_003028	<i>Streptococcus pneumoniae</i> TIGR4	1068	1061	6	0.99	0.99	0.98
110	NC_003030	<i>Clostridium acetobutylicum</i> ATCC824	2665	2655	24	0.99	0.99	0.98
111	NC_003037	<i>Sinorhizobium meliloti</i> 1021 plasmid pSymA	512	511	0	0.99	1.0	0.99
112	NC_003042	<i>Streptococcus pneumoniae</i> R6	17	17	1	1.0	0.94	.94
113	NC_003047	<i>Sinorhizobium meliloti</i> 1021	1963	1957	7	0.99	0.99	0.99

114	NC_003062	<i>Agrob tumefaciens str. C58 (Cereon) circular</i>	1	1	0	1.0	1.0	1.0
115	NC_003065	<i>Nostoc sp. PCC 7120</i>	79	62	34	0.74	0.64	0.34
116	NC_003078	<i>Sinorhizobium meliloti 1021 plasmid pSymB</i>	750	749	0	0.99	1.0	0.99
117	NC_003098	<i>Streptococcus pneumoniae R6</i>	909	900	3	0.99	0.99	0.98
118	NC_003103	<i>Rickettsia conorii str. Malish 7</i>	886	583	4	0.99	0.99	0.98
119	NC_003106	<i>Sulfolobus tokodaii str. 7</i>	47	45	3	0.95	0.93	0.88
120	NC_003112	<i>Neisseria meningitidis MC 58</i>	1128	1111	5	0.99	0.99	0.98
121	NC_003116	<i>Neisseria meningitidis Z2491</i>	1178	1164	11	0.98	0.99	0.97
122	NC_003131	<i>Yersinia pestis CO92 plasmid pcD1</i>	24	24	0	1.0	1.0	1.0
123	NC_003132	<i>Yersinia pestis CO92 plasmid pPCP1</i>	5	5	0	1.0	1.0	1.0
124	NC_003140	<i>Staphylococcus aureus subsp. aureusN315plasmid pN315</i>	9	9	0	1.0	1.0	1.0
125	NC_003155	<i>Streptomyces avermitilis MA-4680</i>	3854	3843	11	0.99	0.99	0.99
126	NC_003197	<i>Salmonella typhimurium LT2</i>	3127	3083	44	0.98	0.98	0.97
127	NC_003198	<i>Salmonella enterica subsp. enterica serovar Typhi str. CT18</i>	2494	2446	33	0.98	0.98	0.96
128	NC_003210	<i>Listeria monocytogenes Clip11262</i>	242	241	5	0.99	0.97	0.97
129	NC_003212	<i>Listeria innocua chromosome</i>	449	446	3	0.99	0.99	0.98
130	NC_003240	<i>Nostoc sp. PCC 7120 plasmid pCC7120beta</i>	24	11	23	0.54	0.92	0.55
131	NC_003267	<i>Nostoc sp. PCC 7120 plasmid pCC7120gamma</i>	14	13	0	0.92	1.0	0.93
132	NC_003270	<i>Nostoc sp. PCC 7120 plasmid pCC7120epsilon</i>	7	7	0	1.0	1.0	1.0
133	NC_003272	<i>Nostoc sp. PCC 7120</i>	1805	1796	9	0.99	0.99	0.98
134	NC_003273	<i>Nostoc sp. PCC 7120 plasmid pCC7120delta</i>	10	9	0	0.90	1.0	0.90
135	NC_003276	<i>Nostoc sp. PCC 7120 plasmid pCC7120alpha</i>	60	60	0	1.0	1.0	1.0
136	NC_003277	<i>Salmonella typhimurium LT2 plasmid pSLT</i>	52	51	2	0.98	0.96	0.94
137	NC_003295	<i>Ralstonia solanacearum GMI1000</i>	2096	2088	8	0.99	0.99	0.99

138	NC_003296	<i>Ralstonia solanacearum</i> GM11000 plasmid pGM11000MP	945	938	3	0.99	0.90	0.98
139	NC_003304	<i>Agrobacterium tumefaciens</i> str. C58 (U. Washington) circular chromosome	1358	1358	0	1.0	1.0	1.0
140	NC_003305	<i>Agrobac tumefaciens</i> str. C58 linear chromosome	951	949	0	0.99	1.0	0.99
141	NC_003306	<i>Agrobacterium tumefaciens</i> str.C58 plasmid AT	245	245	0	1.0	1.0	1.0
142	NC_003308	<i>Agrobacterium tumefaciens</i> str.C58 plasmid Ti	95	94	0	0.98	1.0	0.98
143	NC_003317	<i>Brucella melitensis</i> chromosome I	1248	1244	4	0.99	0.99	0.99
144	NC_003318	<i>Brucella melitensis</i> 16M chromosome II	653	648	0	0.99	1.0	0.99
145	NC_003361	<i>Chlamyophila caviae</i> GPIC	477	475	1	0.99	0.99	0.99
146	NC_003364	<i>Pyrobaculum aerophilum</i> str. IM2	963	935	24	0.97	0.97	0.94
147	NC_003366	<i>Clostridium perfringens</i>	1313	1307	9	0.99	0.99	0.98
148	NC_003383	<i>Listeria innocua</i> plasmid pLI100	10	10	0	1.0	1.0	1.0
149	NC_003383	<i>Listeria innocua</i> plasmid pLI100	10	10	0	1.0	1.0	1.0
150	NC_003384	<i>Salmonella enterica</i> subsp. enterica serovar Typhi str. CT18 plasmid pHCM1	79	57	78	0.72	1.0	0.27
151	NC_003385	<i>Salmonella enterica</i> subsp. enterica serovar Typhi str. CT18 plasmid pHCM2	31	31	0	1.0	1.0	1.0
152	NC_003413	<i>Pyrococcus furiosus</i> DSM 3638	733	728	12	0.99	0.98	0.97
153	NC_003425	<i>Wigglesworthia glossinidia</i> endosymbiont of <i>Glossina brevipalpis</i> plasmid pWb1	5	5	0	1.0	1.0	1.0
154	NC_003450	<i>Corynebacterium glutamicum</i> ATCC 13032	1508	1507	0	0.99	1.0	0.99
155	NC_003454	<i>Fusobacterium nucleatum</i>	1193	1186	4	0.99	0.99	0.99
156	NC_003551	<i>Methanopyrus kandleri</i> AV19	998	987	14	0.98	0.98	0.97
157	NC_003552	<i>Methanosarcina acetivorans</i>	1721	1716	5	0.99	0.99	0.99
158	NC_003869	<i>Thermoanaerobacter tengcongensis</i> MB4	1367	1362	6	0.99	0.99	0.99
159	NC_003888	<i>Streptomyces coelicolor</i> A3(2)	4218	4193	26	0.99	0.99	0.98

160	NC_003901	<i>Methanosarcina mazei</i> Go1	1515	1509	7	0.99	0.99	0.99
161	NC_003902	<i>Xanthomonas campestris</i> pv. <i>Campestris</i> str. ATCC 33913	2037	2020	11	0.99	0.99	0.98
162	NC_003909	<i>Bacillus cereus</i> ATCC 10987	2911	2903	21	0.99	0.99	0.98
163	NC_003911	<i>Silicibacter pomeroyi</i> DSS-3	2083	2078	4	0.99	0.99	0.99
164	NC_003912	<i>Campylobacter jejuni</i> RM1221	694	694	1	1.0	0.99	0.99
165	NC_003919	<i>Xanthomonas axonopodis</i> pv. <i>citri</i> str. 306	2052	2045	10	0.99	0.99	0.99
166	NC_003921	<i>Xanthomonas axonopodis</i> pv. <i>citri</i> str. 306 plasmid pXAC33	15	15	0	1.0	1.0	1.0
167	NC_003922	<i>Xanthomonas axonopodis</i> pv. <i>citri</i> str. 306 plasmid pXAC64	29	29	0	1.0	1.0	1.0
168	NC_003923	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> MW2	662	661	8	0.99	0.98	0.98
169	NC_003980	<i>Bacillus anthracis</i> str. A2012 plasmid pXO1	40	39	0	0.97	1.0	0.97
170	NC_003981	<i>Bacillus anthracis</i> str. A2012 plasmid pXO2	22	22	0	1.0	1.0	1.0
171	NC_004061	<i>Buchnera aphidicola</i> str. Sg	407	407	3	1.0	0.99	0.99
172	NC_004070	<i>Streptococcus pyogenes</i> MGAS315	981	977	5	0.99	0.99	0.99
173	NC_004088	<i>Yersinia pestis</i> KIM	1883	1816	8	0.96	0.99	0.96
174	NC_004113	<i>Thermosynechococcus elongatus</i> BP-1	1190	1187	7	0.99	0.99	0.99
175	NC_004116	<i>Streptococcus agalactiae</i> 2603V/R	1196	1189	6	0.99	0.99	0.98
176	NC_004193	<i>Oceanobacillus iheyensis</i> HTE831	1558	1549	6	0.99	0.99	0.99
177	NC_004307	<i>Bifidobacterium longum</i>	1030	1021	532	0.99	0.68	0.58
178	NC_004310	<i>Brucella suis</i> chromosome I	1125	661	133	0.58	0.83	0.48
179	NC_004311	<i>Brucella suis</i> 1330 chromosome II,	606	603	1	0.99	0.99	0.99
180	NC_004337	<i>Shigella flexneri</i> 2a str. 301	2391	2352	11	0.98	0.95	0.93
181	NC_004342	<i>Leptospira interrogans</i> I	1441	1430	11	0.99	0.99	0.98
182	NC_004343	<i>Leptospira interrogans</i> seovar Lai.str.56601 chromosome II	123	123	0	1.0	1.0	1.0
183	NC_004347	<i>Shewanella oneidensis</i> MR-1	2334	2328	8	0.99	0.99	0.99

184	NC_004349	<i>Shewanella oneidensis</i> MR-1 megaplasmid pMR-1	67	67	0	1.0	1.0	1.0
185	NC_004368	<i>Streptococcus agalactiae</i> NEM316	190	189	5	0.99	0.97	0.98
186	NC_004369	<i>Corynebacterium efficiens</i> YS-314	1119	1116	2	0.99	0.99	0.99
187	NC_004431	<i>Escherichia coli</i> CFT073	2888	2841	9	0.98	0.99	0.99
188	NC_004432	<i>Mycoplasma penetrans</i> HF-2	540	538	1	0.99	0.99	0.99
189	NC_004459	<i>Vibrio vulnificus</i> CMCP6 chromosome I	1901	1894	21	0.99	0.98	0.97
190	NC_004460	<i>Vibrio vulnificus</i> CMCP6 chromosome II	1055	1046	3	0.99	0.99	0.98
191	NC_004461	<i>Staphylococcus epidermidis</i> ATCC 12228	1154	1154	15	1.0	0.98	0.98
192	NC_004463	<i>Bradyrhizobium japonicum</i>	3246	3230	10	0.99	0.99	0.99
193	NC_004545	<i>Buchnera aphidicola</i>	408	402	6	0.98	0.98	0.97
194	NC_004547	<i>Erwinia carotovora</i> subsp. atroseptica SCRI1043	2674	2638	35	0.98	0.98	0.97
195	NC_004551	<i>Tropheryma whipplei</i> TWO8/27	510	509	0	0.99	1.0	0.99
196	NC_004554	<i>Xylella fastidiosa</i> Temecula1 plasmid pXFPD1.3	2	2	0	1.0	1.0	1.0
197	NC_004556	<i>Xylella fastidiosa</i> Temecula1	1051	1046	5	0.99	0.99	0.99
198	NC_004557	<i>Clostridium tetani</i> E88	1556	1550	8	0.99	0.99	0.99
199	NC_004565	<i>Clostridium tetani</i> plasmid pE88	29	29	0	1.0	1.0	1.0
200	NC_004567	<i>Lactobacillus plantarum</i>	1954	1940	19	0.99	0.99	0.98
201	NC_004572	<i>Tropheryma whipplei</i> str. Twist	385	385	1	1.0	0.99	0.99
202	NC_004578	<i>Pseudomonas syringae</i> pv. Tomato str. DC3000	3048	3029	20	0.99	0.99	0.98
203	NC_004603	<i>Vibrio parahaemolyticus</i> RIMD 2210633 chromosome I	1633	1627	8	0.99	0.99	0.99
204	NC_004605	<i>Vibrio parahaemolyticus</i> RIMD 2210633 chromosome II	826	818	5	0.99	0.99	0.98
205	NC_004631	<i>Salmonella enterica</i> subsp. enterica serovar Typhi Ty2	2458	2413	31	0.98	0.99	0.96
206	NC_004632	<i>Pseudomonas syringae</i> pv. Tomato str. DC3000 plasmid pDC3000B	29	29	2	1.0	0.93	0.93
207	NC_004663	<i>Bacteroides thetaiotaomicron</i> VPI-5482	1324	1320	3	0.99	0.99	0.99

208	NC_004668	<i>Enterococcus faecalis</i> V583	1643	1639	11	0.99	0.99	0.99
209	NC_004669	<i>Enterococcus faecalis</i> V583 plasmid pTEF1	34	34	0	1.0	1.0	1.0
210	NC_004670	<i>Enterococcus faecalis</i> V583 plasmid pTEF3	11	11	0	1.0	1.0	1.0
211	NC_004671	<i>Enterococcus faecalis</i> V583 plasmid pTEF2	22	21	0	0.95	1.0	0.95
212	NC_004703	<i>Bacteroides thetaiotaomicron</i> plasmid P5482	8	8	0	1.0	1.0	1.0
213	NC_004704	<i>Coxiella burnetii</i> RSA 493 plasmid pQpH1	8	8	0	1.0	1.0	1.0
215	NC_004720	<i>Chlamydomophila carviae</i> GPIC plasmid pCpGP1	5	5	0	1.0	1.0	1.0
217	NC_004721	<i>Bacillus cereus</i> ATCC 14579 plasmid PBClin15	2	2	0	1.0	1.0	1.0
218	NC_004722	<i>Bacillus cereus</i> ATCC14579	3122	3101	26	0.99	0.99	0.98
219	NC_004741	<i>Shigella flexneri</i> 2a str. 2457T	2155	2131	27	0.98	0.98	0.97
220	NC_004757	<i>Nitrosomonas europaea</i> ATCC 19718	1470	1463	6	0.99	0.99	0.99
221	NC_004829	<i>Mycoplasma gallisepticum</i> R	299	297	2	0.99	0.99	0.98
222	NC_004842	<i>Anaplasma marginale</i> str. St. Maries	470	462	3	0.98	0.99	0.97
223	NC_004851	<i>Shigella flexneri</i> 2a str. 301 plasmid pCP301	163	156	14	0.95	0.91	0.87
224	NC_004917	<i>Helicobacter hepaticus</i> ATCC 51449	602	602	0	1.0	1.0	1.0
225	NC_005027	<i>Pirellula</i> sp.	2213	2187	25	0.98	0.98	0.97
226	NC_005042	<i>Prochlorococcus marinus</i> subsp. marinus str. CCMP1375	1223	1202	17	0.98	0.98	0.96
227	NC_005043	<i>Chlamyophila pneumoniae</i> TW-183	479	476	4	0.99	0.99	0.98
228	NC_005061	<i>Candidatus Blochmannia floridanus</i>	504	490	11	0.97	0.97	0.94
229	NC_005070	<i>Synechococcus</i> sp. WH 8102	1018	1038	6	0.99	0.99	0.99
230	NC_005071	<i>Prochlorococcus marinus</i> str. MIT 9313	1251	1236	15	0.98	0.98	0.97
231	NC_005072	<i>Prochlorococcus marinus</i> subsp. pastoris str. CCMP1986	1054	1042	11	0.98	0.98	0.97
232	NC_005085	<i>Chromobacterium violaceum</i> ATCC 12472	2186	2180	8	0.99	0.99	0.99
233	NC_005090	<i>Wolinella succinogenes</i> DSM 1740	891	891	0	1.0	1.0	1.0

234	NC_005125	<i>Gloeobacter violaceus</i> PCC 7421	1531	1525	6	0.99	0.99	0.99
235	NC_005126	<i>Photorhabdus luminescens</i>	1337	1331	6	0.99	0.99	0.99
236	NC_005128	<i>Vibrio vulnificus</i> YJ016 plasmid pYJ016	10	10	0	1.0	1.0	1.0
237	NC_005139	<i>Vibrio vulnificus</i> YJ016 chromosome I	1699	1695	9	0.99	0.99	0.99
238	NC_005140	<i>Vibrio vulnificus</i> YJ016 chromosome II	845	843	2	0.99	0.99	0.99
239	NC_005295	<i>Ehrlichia ruminantium</i> str. Welgevonden	656	653	6	0.99	0.99	0.99
240	NC_005296	<i>Rhodopseudomonas palustris</i> CGA009	2719	2716	5	0.99	0.99	0.99
241	NC_005362	<i>Lactobacillus johnsonii</i> NCC 533	680	676	3	0.99	0.99	0.98
242	NC_005363	<i>Bdellovibrio bacteriovorus</i>	1402	1396	7	0.99	0.95	0.99
243	NC_005364	<i>Mycoplasma mycoides</i> subsp. <i>mycoides</i> SC str. PGI	604	595	1	0.98	0.99	0.98
244	NC_005791	<i>Methanococcus maripaludis</i> S@	959	956	13	0.99	0.98	0.98
245	NC_005810	<i>Yersinia pestis</i> biovar <i>Medievalis</i> str. 91001	2301	2238	25	0.97	0.98	0.96
246	NC_005813	<i>Yersinia pestis</i> biovar <i>Medievalis</i> str. 91001 plasmid pCD1	29	28	0	0.96	1.0	0.96
247	NC_005814	<i>Yersinia pestis</i> biovar <i>Medievalis</i> str. 91001 plasmid pCRY	14	14	0	1.0	1.0	1.0
248	NC_005815	<i>Yersinia pestis</i> biovar <i>Medievalis</i> str. 91001 plasmid pMT1	34	33	0	0.97	1.0	0.97
249	NC_005816	<i>Yersinia pestis</i> biovar <i>Medievalis</i> str. 91001 plasmid pPCP1	5	5	0	1.0	1.0	1.0
250	NC_005823	<i>Leptospira interrogans</i> serovar <i>Copenhageni</i> str. Fiocruz LI-130 chromosome I	1382	1374	11	0.99	0.99	0.98
251	NC_005824	<i>Leptospira interrogans</i> serovar <i>Copenhageni</i> str. Fiocruz LI-130 chromosome II	115	115	0	1.0	1.0	1.0
252	NC_005835	<i>Thermus thermophilus</i> HB27	850	850	1	1.0	0.99	0.99
253	NC_005863	<i>Desulfovibrio vulgaris</i> subsp. <i>vulgaris</i> str. Hildenborough megaplasmid	70	70	0	1.0	1.0	1.0
254	NC_005877	<i>Picrophilus torridus</i> DSM 9790	723	704	4	0.97	0.99	0.96
255	NC_005945	<i>Bacillus anthracis</i> str. <i>Sterne</i>	2872	2863	17	0.99	0.99	0.99
256	NC_005951	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> MSSA476 plasmid pSAS	11	10	2	0.90	0.83	0.73

257	NC_005955	<i>Bartonella quintana str. Toulouse</i>	742	690	11	0.92	0.98	0.91
258	NC_005956	<i>Bartonella quintana str. Houston-1</i>	859	818	21	0.95	0.97	0.92
259	NC_005957	<i>Bacillus thuringiensis serovar konkukian str. 97-27</i>	2967	2965	14	0.99	0.99	0.99
260	NC_005966	<i>Acinetobacter sp. ADP1</i>	2093	2087	7	0.99	0.99	0.99
261	NC_006055	<i>Mesoplasma florum L1</i>	474	473	4	0.99	0.99	0.98
262	NC_006085	<i>Propionibacterium acnes KPA171202</i>	1127	1124	2	0.99	0.99	0.99
263	NC_006086	<i>Streptococcus pyogenes MGAS10394</i>	1124	1111	13	.98	.98	.97
264	NC_006087	<i>Leifsonia xyli subsp. xyli str. CTCB07</i>	1053	1047	2	.99	.99	.99
265	NC_006128	<i>Borrelia garinii PBi plasmid cp26</i>	9	9	0	1.0	1.0	1.0
266	NC_006129	<i>Borrelia garinii PBi plasmid lp54</i>	18	18	0	1.0	1.0	1.0
267	NC_006138	<i>Desulfotalea psychrophila LSv54</i>	1400	1397	2	0.99	0.99	0.99
268	NC_006139	<i>Desulfotalea psychrophila LSv54 plasmid large</i>	41	41	1	1.0	0.97	0.97
269	NC_006140	<i>Desulfotalea psychrophila LSv54 plasmid small</i>	4	4	0	1.0	1.0	1.0
270	NC_006142	<i>Rickettsia typhi str. Wilmington</i>	566	562	3	0.99	0.99	0.99
271	NC_006153	<i>Yersinia pseudotuberculosis IP 32953 plasmid pYV</i>	38	35	0	0.92	1.0	0.92
272	NC_006154	<i>Yersinia pseudotuberculosis IP 32953 plasmid pYptb32953</i>	13	13	0	1.0	1.0	1.0
273	NC_006155	<i>Yersinia pseudotuberculosis IP 32953</i>	2327	2303	21	0.99	0.99	0.98
274	NC_006156	<i>Borrelia garinii PBi chromosome linear</i>	403	400	3	0.99	0.99	0.98
275	NC_006177	<i>Symbiobacterium thermophilum IAM 14863</i>	1689	1683	5	0.99	0.99	0.99
276	NC_006270	<i>Bacillus licheniformis ATCC 14580</i>	2598	2590	22	0.99	0.99	0.98
277	NC_006274	<i>Bacillus cereus ZK</i>	3389	3381	36	0.99	0.98	0.98
278	NC_006297	<i>Bacteroides fragilis YCH46 plasmid pBFY46</i>	15	15	0	1.0	1.0	1.0
279	NC_006300	<i>Mannheimia succiniciproducens MBEL55E</i>	1262	1260	6	0.99	0.99	0.99
280	NC_006322	<i>Bacillus licheniformis ATCC 14580</i>	2383	2371	13	0.99	0.99	0.98

281	NC_006347	<i>Bacteroides fragilis</i> YCH46	2135	2131	5	0.99	0.99	0.99
282	NC_006348	<i>Burkholderia mallei</i> ATCC 23344 chromosome 1	1969	1959	6	0.99	0.99	0.99
283	NC_006349	<i>Burkholderia mallei</i> ATCC 23344 chromosome 2	1045	1041	5	0.99	0.99	0.99
284	NC_006350	<i>Burkholderia pseudomallei</i> K96243 chromosome 1	2124	2098	10	0.99	0.98	0.97
285	NC_006351	<i>Burkholderia pseudomallei</i> K96243 chromosome 2	1289	1277	15	0.99	0.98	0.97
286	NC_006360	<i>Mycoplasma hyopneumoniae</i> 232	253	251	0	0.99	0.99	0.98
287	NC_006368	<i>Legionella pneumophila</i> str. Paris	407	407	1	1.0	0.99	0.99
288	NC_006369	<i>Legionella pneumophila</i> str. Lens	401	399	1	0.99	0.99	0.99
289	NC_006370	<i>Photobacterium profundum</i> SS9 chromosome 1	1607	1603	1	0.99	0.99	0.99
290	NC_006371	<i>Photobacterium profundum</i> SS9 chromosome 2	530	528	1	0.99	0.99	0.99
291	NC_006375	<i>Lactobacillus plantarum</i> WCFS1 plasmid pWCFS101	1	1	0	1.0	1.0	1.0
292	NC_006377	<i>Lactobacillus plantarum</i> WCFS1 plasmid pWCFS103	12	11	0	0.91	1.0	0.91
293	NC_006389	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG100	5	5	0	1.0	1.0	1.0
294	NC_006390	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG200	11	11	0	1.0	1.0	1.0
295	NC_006391	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG300	7	7	1	1.0	0.87	0.86
296	NC_006392	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG400	12	12	0	1.0	1.0	1.0
297	NC_006393	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG500	44	44	1	1.0	0.97	0.97
298	NC_006394	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG600	44	44	0	1.0	1.0	1.0
299	NC_006395	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG700	178	178	0	1.0	1.0	1.0
300	NC_006396	<i>Haloarcula marismortui</i> ATCC 43049 chromosome I	1407	1406	1	0.99	0.99	0.99
301	NC_006397	<i>Haloarcula marismortui</i> ATCC 43049 chromosome II	96	96	0	1.0	1.0	1.0
302	NC_006448	<i>Streptococcus thermophilus</i> LMG 18311	1106	1105	14	0.99	0.98	0.98
303	NC_006461	<i>Thermus thermophilus</i> HB8	831	829	4	0.99	0.99	0.99
304	NC_006462	<i>Thermus thermophilus</i> HB8 plasmid pTT27	67	67	0	1.0	1.0	1.0

305	NC_006463	<i>Thermus thermophilus</i> HB8 plasmid pTT8	1	1	0	1.0	1.0	1.0
306	NC_006509	<i>Geobacillus kaustophilus</i> HTA426 plasmid pHTA426	24	24	0	1.0	1.0	1.0
307	NC_006510	<i>Geobacillus kaustophilus</i> HTA426	1488	1479	10	0.99	0.99	0.98
308	NC_006511	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Paratyphi</i> A str. ATCC 9150	2414	2386	24	0.98	0.99	0.97
309	NC_006512	<i>Idiomarina loihiensis</i> L2TR	1719	1710	9	0.99	0.99	0.98
310	NC_006513	<i>Azoarcus</i> sp. EbN1	1929	1918	10	0.99	0.99	0.98
311	NC_006526	<i>Zymomonas mobilis</i> subsp. <i>mobilis</i> ZM4	1065	1063	4	0.99	0.99	0.98
312	NC_006569	<i>Silicibacter pomeroyi</i> DSS-3 megaplasmid	247	247	0	1.0	1.0	1.0
313	NC_006570	<i>Francisella tularensis</i> subsp. <i>tularensis</i> Schu 4	1016	997	13	0.98	0.98	0.96
314	NC_006576	<i>Synechococcus elongatus</i> PCC 6301	1175	843	80	0.77	0.91	0.66
315	NC_006578	<i>Bacillus thuringiensis</i> serovar <i>konkukian</i> str. 97-27 plasmid pBT9727	22	22	0	1.0	1.0	1.0
316	NC_006582	<i>Bacillus clausii</i> KSM-K16	2129	2128	11	0.99	0.99	0.99
317	NC_006624	<i>Thermococcus kodakaraensis</i> KOD1	1011	586	59	0.57	0.90	0.55
318	NC_006629	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> COL plasmid pT181	3	3	0	1.0	1.0	1.0
319	NC_006663	<i>Staphylococcus epidermidis</i> RP62A plasmid pSERP	21	21	0	1.0	1.0	1.0
320	NC_006672	<i>Gluconobacter oxydans</i> 621H plasmid pGOX1	46	46	0	1.0	1.0	1.0
321	NC_006673	<i>Gluconobacter oxydans</i> 621H plasmid pGOX2	17	17	0	1.0	1.0	1.0
322	NC_006674	<i>Gluconobacter oxydans</i> 621H plasmid pGOX3	8	8	0	1.0	1.0	1.0
323	NC_006675	<i>Gluconobacter oxydans</i> 621H plasmid pGOX4	9	9	0	1.0	1.0	1.0
324	NC_006676	<i>Gluconobacter oxydans</i> 621H plasmid pGOX5	2	2	0	1.0	1.0	1.0
325	NC_006677	<i>Gluconobacter oxydans</i> 621H	1196	1186	6	0.99	0.99	0.98
326	NC_006814	<i>Lactobacillus acidophilus</i> NCFM	1126	1122	3	0.99	0.99	0.99
327	NC_006908	<i>Mycoplasma mobile</i> 163K	384	383	1	0.99	0.99	0.99
328	NC_007322	<i>Bacillus anthracis</i> str. 'Ames Ancestor' plasmid pXOI	40	39	0	0.97	1.0	0.97

329	NC_007323	<i>Bacillus anthracis str. 'Ames Ancestor' plasmid pXO2</i>	24	24	0	1.0	1.0	1.0
330	NC_007530	<i>Bacillus anthracis str. 'Ames Ancestor'</i>	2792	2785	15	0.99	0.99	0.99
331	NC_00919	<i>Treponema pallidum subsp. Pallidum str. Nichols</i>	454	449	6	0.98	0.98	0.97

Table S2. Gene evaluation data as obtained with the physico-chemical model for 331 prokaryotic genomes for experimentally verified genes (non- overlapping) and non-genes (pre-genes).

S.No.	NCBI_ID	Species Name	Genes	TP	FP	SS	SP	CC
1	NC_000117	<i>Chlamydia trachomatis</i>	463	426	93	0.92	0.82	0.73
2	NC_000853	<i>Thermotoga maritima</i> MSB8	641	579	149	0.90	0.79	0.67
3	NC_000854	<i>Aeropyrum pernix</i> K1	561	441	113	0.79	0.80	0.67
4	NC_000868	<i>Pyrococcus abyssi</i> GE5	632	329	8	0.52	0.98	0.45
5	NC_000907	<i>Haemophilus influenzae</i>	955	898	120	0.94	0.88	0.82
6	NC_000908	<i>Mycoplasma genitalium</i> G-37	189	175	22	0.92	0.89	0.80
7	NC_000909	<i>Methanocaldococcus janaschii</i>	720	646	117	0.90	0.85	0.80
8	NC_000912	<i>Mycoplasma pneumoniae</i> M129	243	218	53	0.90	0.80	0.69
9	NC_000913	<i>Escherichia coli</i> K12	2759	1946	645	0.70	0.75	0.47
10	NC_000915	<i>Helicobacter pylori</i>	731	679	155	0.93	0.81	0.71
11	NC_000916	<i>Methanobacterium thermoautotrophicum</i>	719	675	190	0.94	0.78	0.68
12	NC_000917	<i>Archaeoglobus fulgidus</i>	782	724	251	0.92	0.74	0.61
13	NC_000917	<i>Archaeoglobus fulgidus</i> DSM4304	782	724	251	0.92	0.74	0.61
14	NC_000918	<i>Aquifex aeolicus</i> VF5	584	534	186	0.91	0.74	0.62
15	NC_000921	<i>Helicobacter pylori</i> strain J99	658	615	109	0.93	0.85	0.76
16	NC_000922	<i>Chlamydomydia pneumoniae</i> CWL029	597	573	170	0.96	0.77	0.72
17	NC_000948	<i>Borrelia burgdorferi</i> B31 plsmids cp32-1	11	11	1	1.0	0.92	0.90
18	NC_000949	<i>Borrelia burgdorferi</i> B31 plsmids cp32-3	11	11	0	1.0	1.0	1.0
19	NC_000950	<i>Borrelia burgdorferi</i> B31 plsmids cp32-4	11	10	1	0.91	0.91	0.80
20	NC_000951	<i>Borrelia burgdorferi</i> B31 plsmids cp32-6	10	10	0	1.0	1.0	1.0
21	NC_000952	<i>Borrelia burgdorferi</i> B31 plsmids cp32-7	11	11	2	1.0	0.85	0.81

22	NC_000953	<i>Borrelia burgdorferi</i> B31 plsmids cp32-8	11	11	1	1.0	0.92	0.90
23	NC_000954	<i>Borrelia burgdorferi</i> B31 plsmids cp32-9	12	12	0	1.0	1.0	1.0
24	NC_000955	<i>Borrelia burgdorferi</i> B31 plsmids lp21	1	1	0	1.0	1.0	1.0
25	NC_000956	<i>Borrelia burgdorferi</i> B31 plsmids lp56	14	13	1	0.93	0.93	0.84
26	NC_000957	<i>Borrelia burgdorferi</i> B31 plsmids lp51	1	1	0	1.0	1.0	1.0
27	NC_000958	<i>Deinococcus radiodurans</i> R1 plasmid MP1	50	49	27	0.98	0.62	0.51
28	NC_000959	<i>Deinococcus radiodurans</i> R1 plasmid CP1	13	13	6	1.0	0.68	0.62
29	NC_000961	<i>Pyrococcus horikoshii</i> OT3	470	226	6	0.48	0.97	0.44
30	NC_000962	<i>Mycobacterium tuberculosis</i> H37RV	2003	1932	979	0.96	0.63	0.49
31	NC_000963	<i>Rickettsia prowazekii</i> str. Madrid E	447	437	75	0.98	0.85	0.82
32	NC_000964	<i>Bacillus subtilis</i> str. 168	1113	1067	45	0.96	0.94	0.90
33	NC_001263	<i>Deinococcus radiodurans</i> chromosome 1	1066	1035	459	0.97	0.69	0.59
34	NC_001264	<i>Deinococcus radiodurans</i> R1 chromosome 2	129	124	50	0.96	0.71	0.61
35	NC_001318	<i>Borrelia burgdorferi</i> B31	407	374	49	0.92	0.88	0.79
36	NC_001732	<i>Methanocaldococcus janaschii</i> DSM 2661 extrachromosomal	11	11	0	1.0	1.0	1.0
37	NC_001850	<i>Borrelia burgdorferi</i> B31 plsmids lp25	3	3	0	1.0	1.0	1.0
38	NC_001851	<i>Borrelia burgdorferi</i> B31 plsmids lp28-1	2	2	0	1.0	1.0	1.0
39	NC_001852	<i>Borrelia burgdorferi</i> B31 plsmids lp28-2	2	2	0	1.0	1.0	1.0
40	NC_001853	<i>Borrelia burgdorferi</i> B31 plsmids lp28-3	2	2	0	1.0	1.0	1.0
41	NC_001854	<i>Borrelia burgdorferi</i> B31 plsmids lp28-4	4	4	1	1.0	0.80	0.77
42	NC_001855	<i>Borrelia burgdorferi</i> B31 plsmids lp36	8	8	0	1.0	1.0	1.0
43	NC_001856	<i>Borrelia burgdorferi</i> B31 plsmids lp38	3	3	0	1.0	1.0	1.0
44	NC_001857	<i>Borrelia burgdorferi</i> B31 plsmids lp54	19	18	2	0.95	0.90	0.84
45	NC_001869	<i>Halobacterium</i> sp. NRC-1 plasmid pNRC100	3	3	0	1.0	1.0	1.0

46	NC_001880	<i>Aquifex aeolicus VF5 plasmid ecel</i>	1	1	0	1.0	1.0	1.0
47	NC_001903	<i>Borrelia burgdorferi plasmid cp26</i>	9	9	0	1.0	1.0	1.0
48	NC_001904	<i>Borrelia burgdorferi B31 plasmid cp9</i>	2	2	0	1.0	1.0	1.0
49	NC_001988	<i>Clostridium acetobutylicum ATCC 824 plasmid pSOL1</i>	137	126	12	0.92	0.91	0.83
50	NC_002127	<i>Escherichia coli O157:H7 plasmid pOSAKI</i>	1	1	0	1.0	1.0	1.0
51	NC_002128	<i>Escherichia coli O157:H7 plasmid p0157</i>	34	31	14	0.91	0.69	0.47
52	NC_002162	<i>Ureaplasma parvum serovar 3 str.ATCC 700970</i>	323	309	42	0.96	0.88	0.82
53	NC_002163	<i>Campylobacter jejuni subsp.jejuni NCTC 11168</i>	730	698	101	0.96	0.87	0.82
54	NC_002179	<i>Chlamydomphila pneumoniae AR39</i>	439	424	68	0.96	0.86	0.82
55	NC_002182	<i>Chlamydia muridarum plasmid pMOPn</i>	5	2	0	0.40	1.0	0.52
56	NC_002252	<i>Buchnera aphidicola str.APS plasmid pTrp</i>	3	3	0	1.0	1.0	1.0
57	NC_002253	<i>Buchnera aphidicola str.APS plasmid pLeu</i>	4	4	0	1.0	1.0	1.0
58	NC_002488	<i>Xylella fastidiosa 9a5c</i>	990	929	233	0.94	0.80	0.71
59	NC_002489	<i>Xylella fastidiosa 9a5c plasmid pXF1.3</i>	1	1	0	1.0	1.0	1.0
60	NC_002490	<i>Xylella fastidiosa 9a5c plasmid pXF51</i>	19	18	3	0.95	0.86	0.79
61	NC_002491	<i>Neisseria meningitidis MC58</i>	611	590	168	0.96	0.78	0.73
62	NC_002505	<i>Vibrio cholerae O1 biovar eltor str.N16961 chromosome I</i>	1365	1301	326	0.95	0.80	0.73
63	NC_002506	<i>Vibrio cholerae O1 biovar eltor str.N16961 chromosome II</i>	444	404	80	0.91	0.83	0.73
64	NC_002528	<i>Staphylococcus aureus Mu50 chromosome</i>	413	389	87	0.94	0.82	0.74
65	NC_002570	<i>Bacillus halodurans</i>	1731	900	193	0.52	0.82	0.31
66	NC_002607	<i>Halobacterium sp. NRC-1</i>	736	672	143	0.91	0.82	0.72
67	NC_002608	<i>Porphyromonas gingivalis W83</i>	78	75	30	0.96	0.71	0.62
68	NC_002620	<i>Xylella fastidiosa chromosome</i>	421	406	93	0.96	0.81	0.76
69	NC_002655	<i>Escherichia coli O157:H7 EDL933</i>	2728	2465	925	0.90	0.73	0.60

70	NC_002662	<i>Lactococcus lactis</i>	1151	1108	244	0.96	0.82	0.76
71	NC_002663	<i>Pasteurella multocida subsp. Multocida str. Pm 70</i>	917	858	110	0.93	0.89	0.82
72	NC_002677	<i>Mycobacterium leprae TN</i>	1722	1480	725	0.86	0.59	0.30
73	NC_002678	<i>Mesorhizobium loti</i>	2841	560	40	0.20	0.93	0.03
74	NC_002679	<i>Streptococcus agalactiae NEM316</i>	101	97	29	0.96	0.77	0.72
75	NC_002682	<i>Streptococcus agalactiae 2603</i>	57	54	13	0.95	0.80	0.73
76	NC_002689	<i>Thermoplasma volcanium GSS1</i>	921	901	344	0.98	0.58	0.42
77	NC_002695	<i>Escherichia coli O157:H7</i>	2478	2227	702	0.90	0.76	0.62
78	NC_002696	<i>Caulobacter crescentus</i>	1773	1575	265	0.89	0.85	0.74
79	NC_002737	<i>Streptococcus pyogenes M1 GAS</i>	847	814	163	0.96	0.83	0.78
80	NC_002745	<i>Staphylococcus aureus subsp. aureus N315</i>	690	662	123	0.96	0.84	0.79
81	NC_002754	<i>Sulfolobus solfataricus P2</i>	1143	1044	0	0.91	1.0	0.92
82	NC_002755	<i>Mycobacterium tuberculosis CDC1551</i>	1673	1461	393	0.87	0.79	0.64
83	NC_002758	<i>Staphylococcus aureus subsp. aureus Mu50</i>	1340	1306	297	0.97	0.81	0.77
84	NC_002771	<i>Mycoplasma pulmonis UAB CTIP</i>	325	316	60	0.97	0.84	0.80
85	NC_002774	<i>Staphylococcus aureus subsp. aureus Mu50 plasmid VRSAp</i>	16	16	1	1.0	0.94	0.94
86	NC_002927	<i>Bordetella bronchiseptica</i>	2727	2715	870	1.0	0.58	0.41
87	NC_002928	<i>Bordetella parapertussis</i>	2437	2388	1095	0.98	0.64	0.50
88	NC_002929	<i>Bordetella pertussis Tohama I</i>	2102	2093	935	1.0	0.62	0.51
89	NC_002932	<i>Chlorobium tepidum TLS</i>	1094	1008	324	0.92	0.76	0.64
90	NC_002935	<i>Corynebacterium diphtheriae</i>	1313	1206	303	0.92	0.80	0.70
91	NC_002936	<i>Dehalococcoides ethenogenes 195</i>	844	755	171	0.90	0.81	0.70
92	NC_002937	<i>Desulfovibrio vulgaris subsp. vulgaris str. Hildenborough</i>	1764	1649	449	0.93	0.78	0.69
93	NC_002939	<i>Geobacter sulfurreducens PCA</i>	1916	1706	530	0.89	0.76	0.63

94	NC_002940	<i>Haemophilus ducreyi</i> 35000HP	950	879	171	0.92	0.84	0.75
95	NC_002942	<i>Legionella pneumophila</i> subsp. <i>pneumophila</i> str. <i>Philadelphia I</i>	1420	1381	374	0.97	0.79	0.74
96	NC_002944	<i>Mycobacterium avium</i> paratuberculosis	964	942	328	0.98	0.74	0.66
97	NC_002945	<i>Mycobacterium bovis</i> subsp. <i>bovis</i> AF2122/97	1938	1890	954	0.97	0.62	0.49
98	NC_002947	<i>Pseudomonas putida</i> KT2440	2862	2650	899	0.92	0.75	0.64
99	NC_002950	<i>Porphyromonas gingivalis</i> W83	1035	974	284	0.94	0.77	0.69
100	NC_002951	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> COL	1376	1351	364	0.98	0.79	0.74
101	NC_002952	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> MRSA252	1507	1409	340	0.93	0.80	0.72
102	NC_002953	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> MSSA476	1457	1388	393	0.95	0.78	0.71
103	NC_002967	<i>Treponema denticola</i> ATCC 35405	1234	1178	242	0.95	0.83	0.76
104	NC_002971	<i>Coxiella burnetii</i>	830	815	244	0.98	0.77	0.72
105	NC_002973	<i>Listeria monocytogenes</i> str.4b F2365	1654	1586	409	0.96	0.79	0.73
106	NC_002976	<i>Staphylococcus epidermidis</i> RP62A	1329	1290	277	0.97	0.82	0.78
107	NC_002977	<i>Methylococcus capsulatus</i> str. <i>Bath</i>	1522	1440	597	0.95	0.71	0.61
108	NC_002978	<i>Wolbachia endosymbiont of Drosophila melanogaster</i>	604	584	239	0.97	0.71	0.62
109	NC_003028	<i>Streptococcus pneumoniae</i> TIGR4	1068	1012	204	0.95	0.83	0.78
110	NC_003030	<i>Clostridium acetobutylicum</i> ATCC824	2665	2651	1319	0.99	0.67	0.58
111	NC_003037	<i>Sinorhizobium meliloti</i> 1021 plasmid pSymA	512	454	104	0.89	0.81	0.69
112	NC_003042	<i>Streptococcus pneumoniae</i> R6	17	15	4	0.88	0.79	0.64
113	NC_003047	<i>Sinorhizobium meliloti</i> 1021	1963	1732	453	0.88	0.79	0.66
114	NC_003062	<i>Agrobacterium tumefaciens</i> str. C58 (Cereon) circular	1	1	0	1.0	1.0	1.0
115	NC_003065	<i>Nostoc</i> sp. PCC 7120	79	67	12	0.85	0.92	0.77
116	NC_003078	<i>Sinorhizobium meliloti</i> 1021 plasmid pSymB	750	648	147	0.86	0.81	0.68
117	NC_003098	<i>Streptococcus pneumoniae</i> R6	909	856	202	0.94	0.81	0.73

118	NC_003103	<i>Rickettsia conorii str. Malish 7</i>	886	563	115	0.96	0.83	0.77
119	NC_003106	<i>Sulfolobus tokodaii str. 7</i>	47	37	0	0.79	1.0	0.79
120	NC_003112	<i>Neisseria meningitidis MC 58</i>	1128	1013	276	0.86	0.78	0.62
121	NC_003116	<i>Neisseria meningitidis Z2491</i>	1178	1056	317	0.90	0.77	0.63
122	NC_003131	<i>Yersinia pestis CO92 plasmid pcD1</i>	24	22	12	0.92	0.65	0.54
123	NC_003132	<i>Yersinia pestis CO92 plasmid pPCP1</i>	5	3	0	0.60	1.0	0.67
124	NC_003140	<i>Staphylococcus aureus subsp. aureus N315 plasmid pN315</i>	9	9	0	1.0	1.0	1.0
125	NC_003155	<i>Streptomyces avermitilis MA-4680</i>	3854	3535	1945	0.92	0.64	0.48
126	NC_003197	<i>Salmonella typhimurium LT2</i>	3127	2802	1227	0.90	0.69	0.55
127	NC_003198	<i>Salmonella enterica subsp. enterica serovar Typhi str. CT18</i>	2494	2164	862	0.87	0.71	0.55
128	NC_003210	<i>Listeria monocytogenes Clp11262</i>	242	231	54	0.95	0.81	0.74
129	NC_003212	<i>Listeria innocua chromosome</i>	449	429	73	0.95	0.85	0.80
130	NC_003240	<i>Nostoc sp. PCC 7120 plasmid pCC7120beta</i>	24	11	0	0.46	1.0	0.49
131	NC_003267	<i>Nostoc sp. PCC 7120 plasmid pCC7120gamma</i>	14	13	5	0.93	0.72	0.63
132	NC_003270	<i>Nostoc sp. PCC 7120 plasmid pCC7120epsilon</i>	7	7	1	1.0	0.88	0.85
133	NC_003272	<i>Nostoc sp. PCC 7120</i>	1805	1703	302	0.94	0.85	0.78
134	NC_003273	<i>Nostoc sp. PCC 7120 plasmid pCC7120delta</i>	10	8	1	0.80	0.89	0.70
135	NC_003276	<i>Nostoc sp. PCC 7120 plasmid pCC7120alpha</i>	60	58	16	0.97	0.78	0.72
136	NC_003277	<i>Salmonella typhimurium LT2 plasmid pSLT</i>	52	49	25	0.94	0.66	0.57
137	NC_003295	<i>Ralstonia solanacearum GMI1000</i>	2096	2078	630	0.99	0.57	0.39
138	NC_003296	<i>Ralstonia solanacearum GMI1000 plasmid pGMI1000MP</i>	945	904	40	0.96	0.67	0.54
139	NC_003304	<i>Agrobacterium tumefaciens str. C58 (U. Washington) circular chromosome</i>	1358	1237	330	0.91	0.79	0.68
140	NC_003305	<i>Agrobacterium tumefaciens str. C58 linear chromosome</i>	951	886	257	0.93	0.77	0.69
141	NC_003306	<i>Agrobacterium tumefaciens str. C58 plasmid AT</i>	245	234	47	0.95	0.83	0.77

142	NC_003308	<i>Agrobacterium tumefaciens str.C58 plasmid Ti</i>	95	90	21	0.95	0.81	0.75
143	NC_003317	<i>Brucella melitensis chromosome I</i>	1248	1241	588	0.99	0.68	0.62
144	NC_003318	<i>Brucella melitensis 16M chromosome II</i>	653	645	319	0.99	0.67	0.60
145	NC_003361	<i>Chlamyphila caviae GPIC</i>	477	440	79	0.92	0.85	0.76
146	NC_003364	<i>Pyrobaculum aerophilum str. IM2</i>	963	809	381	0.84	0.68	0.47
147	NC_003366	<i>Clostridium perfringens</i>	1313	1289	460	0.98	0.74	0.67
148	NC_003383	<i>Listeria innocua plasmid pLI100</i>	10	10	1	1.0	0.91	0.88
149	NC_003383	<i>Listeria innocua plasmid pLI100</i>	10	10	1	1.0	0.91	0.88
150	NC_003384	<i>Salmonella enterica subsp. enterica serovar Typhi str. CT18 plasmid pHCM1</i>	79	69	17	0.87	0.80	0.61
151	NC_003385	<i>Salmonella enterica subsp. enterica serovar Typhi str. CT18 plasmid pHCM2</i>	31	29	3	0.93	0.91	0.79
152	NC_003413	<i>Pyrococcus furiosus DSM 3638</i>	733	643	145	0.88	0.81	0.68
153	NC_003425	<i>Wigglesworthia glossinidia endosymbiont of Glossina brevipalpis plasmid pWb1</i>	5	5	2	1.0	0.71	0.65
154	NC_003450	<i>Corynebacterium glutamicum ATCC 13032</i>	1508	1368	266	0.91	0.84	0.73
155	NC_003454	<i>Fusobacterium nucleatum</i>	1193	1187	624	1.0	0.63	0.55
156	NC_003551	<i>Methanopyrus kandleri AV19</i>	998	931	447	0.93	0.67	0.54
157	NC_003552	<i>Methanosarcina acetivorans</i>	1721	1564	333	0.91	0.82	0.72
158	NC_003869	<i>Thermoanaerobacter tengcongensis MB4</i>	1367	1261	330	0.92	0.80	0.70
159	NC_003888	<i>Streptomyces coelicolor A3(2)</i>	4218	4151	1742	0.98	0.70	0.61
160	NC_003901	<i>Methanosarcina mazei Goe1</i>	1515	1406	246	0.93	0.85	0.77
161	NC_003902	<i>Xanthomonas campestris pv. Campestris str. ATCC 33913</i>	2037	1909	1014	0.94	0.65	0.51
162	NC_003909	<i>Bacillus cereus ATCC 10987</i>	2911	2758	700	0.95	0.80	0.72
163	NC_003911	<i>Silicibacter pomeroyi DSS-3</i>	2083	2038	1049	0.98	0.63	0.52

164	NC_003912	<i>Campylobacter jejuni</i> RM1221	694	674	139	0.97	0.83	0.79
165	NC_003919	<i>Xanthomonas axonopodis</i> pv. citri str. 306	2052	1954	1040	0.95	0.65	0.52
166	NC_003921	<i>Xanthomonas axonopodis</i> pv. citri str. 306 plasmid pXAC33	15	15	9	1.0	0.62	0.56
167	NC_003922	<i>Xanthomonas axonopodis</i> pv. citri str. 306 plasmid pXAC64	29	29	13	1.0	0.62	0.51
168	NC_003923	<i>Staphylococcus aureus</i> subsp. aureus MW2	662	624	105	0.94	0.85	0.79
169	NC_003980	<i>Bacillus anthracis</i> str. A2012 plasmid pXO1	40	37	5	0.92	0.88	0.80
170	NC_003981	<i>Bacillus anthracis</i> str. A2012 plasmid pXO2	22	22	4	1.0	0.85	0.83
171	NC_004061	<i>Buchnera aphidicola</i> str.Sg	407	406	194	1.0	0.68	0.60
172	NC_004070	<i>Streptococcus pyogenes</i> MGAS315	981	951	220	0.97	0.81	0.76
173	NC_004088	<i>Yersinia pestis</i> KIM	1883	1650	473	0.88	0.78	0.64
174	NC_004113	<i>Thermosynechococcus elongatus</i> BP-1	1190	1118	298	0.94	0.79	0.70
175	NC_004116	<i>Streptococcus agalactiae</i> 2603V/R	1196	1089	180	0.91	0.86	0.76
176	NC_004193	<i>Oceanobacillus iheyensis</i> HTE831	1558	1545	540	0.99	0.74	0.69
177	NC_004307	<i>Bifidobacterium longum</i>	1030	1005	24	0.98	0.93	0.91
178	NC_004310	<i>Brucella suis</i> chromosome I	1125	1103	22	0.98	0.95	0.93
179	NC_004311	<i>Brucella suis</i> 1330 chromosome II,	606	569	139	0.94	0.78	0.73
180	NC_004337	<i>Shigella flexneri</i> 2a str. 301	2391	2127	658	0.89	0.76	0.63
181	NC_004342	<i>Leptospira interrogans</i> I	1441	1427	409	0.99	0.78	0.73
182	NC_004343	<i>Leptospira interrogans</i> seovar Lai.str.56601 chromosome II	123	122	27	0.99	0.82	0.80
183	NC_004347	<i>Shewanella oneidensis</i> MR-1	2334	2100	441	0.90	0.83	0.71
184	NC_004349	<i>Shewanella oneidensis</i> MR-1 megaplasmid pMR-1	67	65	10	0.97	0.87	0.83
185	NC_004368	<i>Streptococcus agalactiae</i> NEM316	190	181	21	0.95	0.90	0.84
186	NC_004369	<i>Corynebacterium efficiens</i> YS-314	1119	987	212	0.88	0.82	0.70
187	NC_004431	<i>Escherichia coli</i> CFT073	2888	2606	948	0.90	0.73	0.61

188	NC_004432	<i>Mycoplasma penetrans</i> HF-2	540	515	92	0.95	0.85	0.78
189	NC_004459	<i>Vibrio vulnificus</i> CMCP6 chromosome I	1901	1763	499	0.92	0.78	0.68
190	NC_004460	<i>Vibrio vulnificus</i> CMCP6 chromosome II	1055	980	255	0.93	0.79	0.70
191	NC_004461	<i>Staphylococcus epidermidis</i> ATCC 12228	1154	1120	283	0.97	0.80	0.74
192	NC_004463	<i>Bradyrhizobium japonicum</i>	3246	2814	901	0.87	0.76	0.60
193	NC_004545	<i>Buchnera aphidicola</i>	408	398	118	0.98	0.77	0.72
194	NC_004547	<i>Erwinia carotovora</i> subsp. <i>atroseptica</i> SCRI1043	2674	2345	879	0.88	0.73	0.57
195	NC_004551	<i>Tropheryma whipplei</i> TWO8/27	510	474	124	0.93	0.79	0.70
196	NC_004554	<i>Xylella fastidiosa</i> TemeculaI plasmid pXFPD1.3	2	2	0	1.0	1.0	1.0
197	NC_004556	<i>Xylella fastidiosa</i> TemeculaI	1051	992	278	0.94	0.78	0.70
198	NC_004557	<i>Clostridium tetani</i> E88	1556	1550	792	1.0	0.66	0.56
199	NC_004565	<i>Clostridium tetani</i> plasmid pE88	29	28	2	0.96	0.93	0.89
200	NC_004567	<i>Lactobacillus plantarum</i>	1954	1718	426	0.88	0.80	0.67
201	NC_004572	<i>Tropheryma whipplei</i> str. Twist	385	367	72	0.95	0.83	0.78
202	NC_004578	<i>Pseudomonas syringae</i> pv. <i>Tomato</i> str. DC3000	3048	2746	1095	0.90	0.71	0.57
203	NC_004603	<i>Vibrio parahaemolyticus</i> RIMD 2210633 chromosome I	1633	1553	358	0.95	0.81	0.74
204	NC_004605	<i>Vibrio parahaemolyticus</i> RIMD 2210633 chromosome II	826	786	255	0.95	0.75	0.67
205	NC_004631	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Typhi Ty2	2458	2146	804	0.87	0.73	0.57
206	NC_004632	<i>Pseudomonas syringae</i> pv. <i>Tomato</i> str. DC3000 plasmid pDC3000B	29	23	10	0.79	0.68	0.57
207	NC_004663	<i>Bacteroides thetaiotaomicron</i> VPI-5482	1324	1183	228	0.89	0.84	0.72
208	NC_004668	<i>Enterococcus faecalis</i> V583	1643	1536	357	0.93	0.81	0.73
209	NC_004669	<i>Enterococcus faecalis</i> V583 plasmid pTEF1	34	30	6	0.88	0.83	0.70
210	NC_004670	<i>Enterococcus faecalis</i> V583 plasmid pTEF3	11	11	0	1.0	1.0	1.0
211	NC_004671	<i>Enterococcus faecalis</i> V583 plasmid pTEF2	22	21	1	0.95	0.95	0.90

212	NC_004703	<i>Bacteroides thetaiotaomicron</i> plasmid P5482	8	8	0	1.0	1.0	1.0
213	NC_004704	<i>Coxiella burnetii</i> RSA 493 plasmid pQpH1	8	7	0	0.87	1.0	0.89
215	NC_004720	<i>Chlamyophila caviae</i> GPIC plasmid pCpGP1	5	5	2	1.0	0.71	0.69
217	NC_004721	<i>Bacillus cereus</i> ATCC 14579 plasmid pBClin15	2	2	0	1.0	1.0	1.0
218	NC_004722	<i>Bacillus cereus</i> ATCC14579	3122	3074	1116	0.98	0.73	0.67
219	NC_004741	<i>Shigella flexneri</i> 2a str. 2457T	2155	1954	672	0.91	0.74	0.63
220	NC_004757	<i>Nitrosomonas europaea</i> ATCC 19718	1470	1329	349	0.90	0.80	0.68
221	NC_004829	<i>Mycoplasma gallisepticum</i> R	299	283	64	0.95	0.81	0.75
222	NC_004842	<i>Anaplasma marginale</i> str. St. Maries	470	444	183	0.94	0.71	0.59
223	NC_004851	<i>Shigella flexneri</i> 2a str. 301 plasmid pCP301	163	142	60	0.87	0.70	0.54
224	NC_004917	<i>Helicobacter hepaticus</i> ATCC 51449	602	552	41	0.92	0.93	0.84
225	NC_005027	<i>Pirellula</i> sp.	2213	2004	628	0.90	0.76	0.62
226	NC_005042	<i>Prochlorococcus marinus</i> subsp. <i>Marinus</i> str. CCMP1375	1223	1210	518	0.99	0.70	0.63
227	NC_005043	<i>Chlamyophila pneumoniae</i> TW-183	479	475	170	0.99	0.74	0.69
228	NC_005061	<i>Candidatus Blochmannia floridanus</i>	504	455	122	0.90	0.79	0.67
229	NC_005070	<i>Synechococcus</i> sp. WH 8102	1018	874	237	0.84	0.79	0.61
230	NC_005071	<i>Prochlorococcus marinus</i> str. MIT 9313	1251	1161	286	0.93	0.80	0.71
231	NC_005072	<i>Prochlorococcus marinus</i> subsp. <i>Pastoris</i> str. CCMP1986	1054	986	204	0.93	0.83	0.74
232	NC_005085	<i>Chromobacterium violaceum</i> ATCC 12472	2186	2150	875	0.98	0.61	0.47
233	NC_005090	<i>Wolinella succinogenes</i> DSM 1740	891	800	176	0.90	0.82	0.70
234	NC_005125	<i>Gloeobacter violaceus</i> PCC 7421	1531	1348	312	0.88	0.81	0.68
235	NC_005126	<i>Photorhabdus luminescens</i>	1337	1272	316	0.95	0.80	0.73
236	NC_005128	<i>Vibrio vulnificus</i> YJ016 plasmid pYJ016	10	9	2	0.9	0.82	0.70
237	NC_005139	<i>Vibrio vulnificus</i> YJ016 chromosome I	1699	1579	413	0.93	0.79	0.70

238	NC_005140	<i>Vibrio vulnificus</i> YJ016 chromosome II	845	774	177	0.91	0.81	0.71
239	NC_005295	<i>Ehrlichia ruminantium</i> str. Welgevonden	656	610	102	0.93	0.86	0.77
240	NC_005296	<i>Rhodopseudomonas palustris</i> CGA009	2719	2667	1309	0.98	0.63	0.51
241	NC_005362	<i>Lactobacillus johnsonii</i> NCC 533	680	653	130	0.96	0.83	0.78
242	NC_005363	<i>Bdellovibrio bacteriovorus</i>	1402	1265	322	0.90	0.80	0.67
243	NC_005364	<i>Mycoplasma mycoides</i> subsp. <i>mycoides</i> SC str. PG1	604	592	205	0.98	0.74	0.68
244	NC_005791	<i>Methanococcus maripaludis</i> S@	959	912	146	0.95	0.86	0.80
245	NC_005810	<i>Yersinia pestis</i> biovar <i>Medievalis</i> str. 91001	2301	1978	590	0.86	0.77	0.62
246	NC_005813	<i>Yersinia pestis</i> biovar <i>Medievalis</i> str. 91001 plasmid pCD1	29	27	14	0.93	0.66	0.53
247	NC_005814	<i>Yersinia pestis</i> biovar <i>Medievalis</i> str. 91001 plasmid pCRY	14	14	6	1.0	0.70	0.67
248	NC_005815	<i>Yersinia pestis</i> biovar <i>Medievalis</i> str. 91001 plasmid pMT1	34	32	7	0.94	0.82	0.73
249	NC_005816	<i>Yersinia pestis</i> biovar <i>Medievalis</i> str. 91001 plasmid pPCP1	5	5	1	1.0	0.83	0.83
250	NC_005823	<i>Leptospira interrogans</i> serovar <i>Copenhageni</i> str. Fiocruz LI-130 chromosome I	1382	1334	239	0.96	0.85	0.80
251	NC_005824	<i>Leptospira interrogans</i> serovar <i>Copenhageni</i> str. Fiocruz LI-130 chromosome II	115	112	14	0.97	0.89	0.85
252	NC_005835	<i>Thermus thermophilus</i> HB27	850	844	270	0.99	0.76	0.72
253	NC_005863	<i>Desulfovibrio vulgaris</i> subsp. <i>vulgaris</i> str. Hildenborough megaplasmid	70	67	37	0.96	0.64	0.51
254	NC_005877	<i>Picrophilus torridus</i> DSM 9790	723	716	264	0.99	0.57	0.41
255	NC_005945	<i>Bacillus anthracis</i> str. <i>Sterne</i>	2872	2804	927	0.98	0.75	0.69
256	NC_005951	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> MSSA476 plasmid pSAS	11	11	6	1.0	0.65	0.59
257	NC_005955	<i>Bartonella quintana</i> str. <i>Toulouse</i>	742	652	128	0.88	0.83	0.71
258	NC_005956	<i>Bartonella quintana</i> str. <i>Houston-1</i>	859	788	136	0.92	0.85	0.76
259	NC_005957	<i>Bacillus thuringiensis</i> serovar <i>konkukian</i> str. 97-27	2967	2967	1486	1.0	0.67	0.59
260	NC_005966	<i>Acinetobacter</i> sp. ADP1	2093	2025	441	0.97	0.82	0.77

261	NC_006055	<i>Mesoplasma florum</i> L1	474	435	105	0.92	0.80	0.70
262	NC_006085	<i>Propionibacterium acnes</i> KPA171202	1127	1105	451	0.98	0.71	0.65
263	NC_006086	<i>Streptococcus pyogenes</i> MGAS10394	1124	1077	339	0.96	0.76	0.70
264	NC_006087	<i>Leifsonia xyli</i> subsp. <i>xyli</i> str. CTCB07	1053	1016	542	0.96	0.64	0.51
265	NC_006128	<i>Borrelia garinii</i> PBi plasmid cp26	9	9	0	1.0	1.0	1.0
266	NC_006129	<i>Borrelia garinii</i> PBi plasmid lp54	18	17	1	0.94	0.94	0.89
267	NC_006138	<i>Desulfotalea psychrophila</i> LSv54	1400	1302	276	0.93	0.82	0.74
268	NC_006139	<i>Desulfotalea psychrophila</i> LSv54 plasmid large	41	39	13	0.95	0.75	0.68
269	NC_006140	<i>Desulfotalea psychrophila</i> LSv54 plasmid small	4	4	0	1.0	1.0	1.0
270	NC_006142	<i>Rickettsia typhi</i> str. Wilmington	566	527	90	0.93	0.85	0.78
271	NC_006153	<i>Yersinia pseudotuberculosis</i> IP 32953 plasmid pYV	38	32	23	0.84	0.58	0.36
272	NC_006154	<i>Yersinia pseudotuberculosis</i> IP 32953 plasmid pYptb32953	13	13	4	1.0	0.76	0.74
273	NC_006155	<i>Yersinia pseudotuberculosis</i> IP 32953	2327	2112	607	0.91	0.78	0.66
274	NC_006156	<i>Borrelia garinii</i> PBi chromosome linear	403	374	44	0.93	0.89	0.81
275	NC_006177	<i>Symbiobacterium thermophilum</i> IAM 14863	1689	1680	771	0.99	0.64	0.52
276	NC_006270	<i>Bacillus licheniformis</i> ATCC 14580	2598	2340	694	0.90	0.78	0.66
277	NC_006274	<i>Bacillus cereus</i> ZK	3389	3344	1320	0.99	0.72	0.65
278	NC_006297	<i>Bacteroides fragilis</i> YCH46 plasmid pBFY46	15	15	1	1.0	0.94	0.92
279	NC_006300	<i>Mannheimia succiniciproducens</i> MBEL55E	1262	1175	213	0.93	0.85	0.76
280	NC_006322	<i>Bacillus licheniformis</i> ATCC 14580	2383	2217	694	0.93	0.76	0.67
281	NC_006347	<i>Bacteroides fragilis</i> YCH46	2135	1952	455	0.91	0.81	0.70
282	NC_006348	<i>Burkholderia mallei</i> ATCC 23344 chromosome 1	1969	1960	835	0.99	0.62	0.50
283	NC_006349	<i>Burkholderia mallei</i> ATCC 23344 chromosome 2	1045	1036	452	0.99	0.62	0.50
284	NC_006350	<i>Burkholderia pseudomallei</i> K96243 chromosome 1	2124	2106	665	0.99	0.58	0.40

285	NC_006351	<i>Burkholderia pseudomallei</i> K96243 chromosome 2	1289	1281	343	0.99	0.56	0.36
286	NC_006360	<i>Mycoplasma hyopneumoniae</i> 232	253	239	35	0.94	0.87	0.80
287	NC_006368	<i>Legionella pneumophila</i> str. Paris	407	384	58	0.95	0.87	0.80
288	NC_006369	<i>Legionella pneumophila</i> str. Lens	401	370	64	0.92	0.85	0.76
289	NC_006370	<i>Photobacterium profundum</i> SS9 chromosome 1	1607	1549	272	0.96	0.85	0.80
290	NC_006371	<i>Photobacterium profundum</i> SS9 chromosome 2	530	502	75	0.95	0.87	0.80
291	NC_006375	<i>Lactobacillus plantarum</i> WCFS1 plasmid pWCFS101	1	1	0	1.0	1.0	1.0
292	NC_006377	<i>Lactobacillus plantarum</i> WCFS1 plasmid pWCFS103	12	10	0	0.83	1.0	0.84
293	NC_006389	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG100	5	5	0	1.0	1.0	1.0
294	NC_006390	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG200	11	10	2	0.91	0.83	0.71
295	NC_006391	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG300	7	6	0	0.86	1.0	0.84
296	NC_006392	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG400	12	9	1	0.75	0.9	0.61
297	NC_006393	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG500	44	40	7	0.91	0.85	0.74
298	NC_006394	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG600	44	44	10	1.0	0.81	0.78
299	NC_006395	<i>Haloarcula marismortui</i> ATCC 43049 plasmid pNG700	178	161	44	0.90	0.78	0.67
300	NC_006396	<i>Haloarcula marismortui</i> ATCC 43049 chromosome I	1407	1277	302	0.91	0.81	0.70
301	NC_006397	<i>Haloarcula marismortui</i> ATCC 43049 chromosome II	96	72	13	0.75	0.85	0.62
302	NC_006448	<i>Streptococcus thermophilus</i> LMG 18311	1106	1062	279	0.96	0.79	0.73
303	NC_006461	<i>Thermus thermophilus</i> HB8	831	821	257	0.99	0.76	0.72
304	NC_006462	<i>Thermus thermophilus</i> HB8 plasmid pTT27	67	64	19	0.95	0.77	0.72
305	NC_006463	<i>Thermus thermophilus</i> HB8 plasmid pTT8	1	1	0	1.0	1.0	1.0
306	NC_006509	<i>Geobacillus kaustophilus</i> HTA426 plasmid pHTA426	24	21	3	0.87	0.87	0.74
307	NC_006510	<i>Geobacillus kaustophilus</i> HTA426	1488	1328	483	0.89	0.73	0.59
308	NC_006511	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Paratyphi A str. ATCC 9150	2414	2124	819	0.88	0.72	0.57

309	NC_006512	<i>Idiomarina loihiensis</i> L2TR	1719	1609	537	0.94	0.75	0.66
310	NC_006513	<i>Azoarcus</i> sp. EbN1	1929	1897	1003	0.98	0.65	0.55
311	NC_006526	<i>Zymomonas mobilis</i> subsp. <i>mobilis</i> ZM4	1065	1006	247	0.94	0.80	0.73
312	NC_006569	<i>Silicibacter pomeroyi</i> DSS-3 megaplasmid	247	215	78	0.87	0.73	0.58
313	NC_006570	<i>Francisella tularensis</i> subsp. <i>Tularensis</i> Schu 4	1016	951	168	0.94	0.85	0.76
314	NC_006576	<i>Synechococcus elongatus</i> PCC 6301	1175	869	163	0.74	0.84	0.51
315	NC_006578	<i>Bacillus thuringiensis</i> serovar <i>konkukian</i> str. 97-27 plasmid pBT9727	22	22	3	1.0	0.88	0.86
316	NC_006582	<i>Bacillus clausii</i> KSM-K16	2129	2006	559	0.94	0.78	0.70
317	NC_006624	<i>Thermococcus kodakaraensis</i> KOD1	1011	417	54	0.41	0.88	0.33
318	NC_006629	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> COL plasmid pT181	3	3	0	1.0	1.0	1.0
319	NC_006663	<i>Staphylococcus epidermidis</i> RP62A plasmid pSERP	21	21	2	1.0	0.91	0.91
320	NC_006672	<i>Gluconobacter oxydans</i> 621H plasmid pGOX1	46	45	4	0.98	0.92	0.89
321	NC_006673	<i>Gluconobacter oxydans</i> 621H plasmid pGOX2	17	15	2	0.88	0.88	0.76
322	NC_006674	<i>Gluconobacter oxydans</i> 621H plasmid pGOX3	8	7	1	0.87	0.875	0.75
323	NC_006675	<i>Gluconobacter oxydans</i> 621H plasmid pGOX4	9	6	0	0.67	1.0	0.70
324	NC_006676	<i>Gluconobacter oxydans</i> 621H plasmid pGOX5	2	2	0	1.0	1.0	1.0
325	NC_006677	<i>Gluconobacter oxydans</i> 621H	1196	1127	600	0.94	0.65	0.52
326	NC_006814	<i>Lactobacillus acidophilus</i> NCFM	1126	1060	220	0.94	0.83	0.75
327	NC_006908	<i>Mycoplasma mobile</i> 163K	384	384	164	1.0	0.70	0.65
328	NC_007322	<i>Bacillus anthracis</i> str. 'Ames Ancestor' plasmid pXO1	40	37	5	0.92	0.88	0.80
329	NC_007323	<i>Bacillus anthracis</i> str. 'Ames Ancestor' plasmid pXO2	24	22	1	0.92	0.96	0.87
330	NC_007530	<i>Bacillus anthracis</i> str. 'Ames Ancestor'	2792	2660	589	0.95	0.82	0.75
331	NC_00919	<i>Treponema pallidum</i> subsp. <i>Pallidum</i> str. <i>Nichols</i>	454	420	131	0.92	0.76	0.65