

Supporting Online Material

Song, C., et al. 2009. Bioinformatic comparison of bacterial secretomes. *Genomics Proteomics Bioinformatics* 7: 37-46.
DOI: 10.1016/S1672-0229(08)60031-5

Table S1 Predicted secretomes

Bacterium	Proteome (# of ORFs)	Secretome	% of Proteome	Accession #	Reference
Gram negative					
<i>Acinetobacter</i> sp. ADP1*	3325	869	26.1	NC_005966	1
<i>Agrobacterium tumefaciens</i> str. C58 chromosome circular*	2715	754	27.8	NC_003062	2
<i>Anabaena variabilis</i> ATCC 29413	5039	1177	23.4	NC_007413	3
<i>Anaplasma marginale</i> str. St. Maries*	949	277	29.2	NC_004842	4
<i>Aquifex aeolicus</i> VF5	1529	319	20.9	NC_000918	5
<i>Azoarcus</i> sp.	4133	1198	29.0	NC_006513	6
<i>Bacillus clausii</i> KSM-K16	4096	970	23.7	NC_006582	7
<i>Bacteroides fragilis</i> NCTC 9343*	4184	1504	35.9	NC_003228	8
<i>Bacteroides thetaiotaomicron</i> VPI-5482	4778	1797	37.6	NC_004663	9
<i>Bartonella henselae</i> str. Houston-1*	1488	371	24.9	NC_005956	10
<i>Bartonella quintana</i> str. Toulouse*	1142	287	25.1	NC_005955	10
<i>Bdellovibrio bacteriovorus</i> HD 100	3587	1520	42.4	NC_005363	11
<i>Bordetella bronchiseptica</i> RB 50*	4994	1807	36.2	NC_002927	12
<i>Bordetella parapertussis</i> 12822*	4185	1506	36.0	NC_002928	12
<i>Borrelia burgdorferi</i> B31*	851	199	23.4	NC_001318	13
<i>Borrelia garini</i> PBii*	832	192	23.1	NC_006156	14
<i>Bradyrhizobium japonicum</i> USDA 110	8317	2577	31.0	NC_004463	15
<i>Brucella abortus</i> biovar 1 str. 9-941 chromosome I*	2030	551	27.1	NC_006932	16
<i>Brucella melitensis</i> 16M chromosome I*	2059	489	23.7	NC_003317	17
<i>Brucella suis</i> 1330*	2123	583	27.5	NC_004310	17
<i>Buchnera aphidicola</i> str. APS	564	71	12.6		

(Acyrtosiphon pisum)				NC_002528	18
<i>Burkholderia mallei</i> ATCC 23344 chromosome 1*	2996	1017	33.9	NC_006348	19
<i>Burkholderia pseudomallei</i> 1710b chromosome I*	3736	1150	30.8	NC_007434	20
<i>Burkholderia</i> sp. 383*	1209	398	32.9	NC_007509	21
<i>Campylobacter jejuni</i> RM1221*	1838	437	23.8	NC_003912	22
<i>Caulobacter crescentus</i> CB15	3737	1196	32.0	NC_002696	23
<i>Chlamydia muridarum</i> Nigg*	904	255	28.2	NC_002620	24
<i>Chlamydia trachomatis</i> A/HAR-13*	911	259	28.4	NC_007429	25
<i>Chlamydophila abortus</i> S26/3*	932	253	27.1	NC_004552	26
<i>Chlamydophila caviae</i> GPIC*	998	272	27.3	NC_003361	27
<i>Chlamydophila pneumoniae</i> AR39*	1112	294	26.4	NC_002179	24
<i>Chlorobium tepidum</i> TLS	2252	519	23.0	NC_002932	28
<i>Chromobacterium violaceum</i> ATCC 12472	4407	1461	33.2	NC_005085	29
<i>Coxiella burnetii</i> RSA 493*	2016	435	21.6	NC_002971	30
<i>Dechloromonas aromatica</i> RCB	4171	1449	34.7	NC_007298	31
<i>Dehalococcoides ethenogenes</i> 195	1580	332	21.0	NC_002936	32
<i>Desulfotalea psychrophila</i> LSv54	3116	823	26.4	NC_006138	33
<i>Desulfovibrio vulgaris</i> subsp. <i>vulgaris</i> str. Hildenborough	3379	915	27.1	NC_002937	34
<i>Ehrlichia canis</i> str. Jake*	925	243	26.3	NC_007354	35
<i>Ehrlichia ruminantium</i> str. Gardel*	950	227	23.9	NC_006831	36
<i>Erwinia carotovora</i> subsp. <i>atroseptica</i> SCRI1043*	4472	1339	29.9	NC_004547	37
<i>Escherichia coli</i> CFT073*	5379	1468	27.3	NC_004431	38
<i>Francisella tularensis</i> subsp. <i>tularensis</i> SCHU S4*	1603	420	26.2	NC_006570	39
<i>Fusobacterium nucleatum</i> subsp. <i>nucleatum</i> ATCC 25586	2067	361	17.5	NC_003454	40
<i>Geobacter sulfurreducens</i> PCA	3446	1047	30.4	NC_002939	41

<i>Gloeobacter violaceus</i> PCC 7421	4430	1267	28.6	NC_005125	42
<i>Gluconobacter oxydans</i> 621H	2432	730	30.0	NC_006677	43
<i>Haemophilus ducreyi</i> 35000HP*	1717	460	26.8	NC_002940	44
<i>Haemophilus influenzae</i> 86-028NP*	1791	451	25.2	NC_007146	45
<i>Helicobacter hepaticus</i> ATCC 51449*	1875	454	24.2	NC_004917	46
<i>Helicobacter pylori</i> 26695*	1576	444	28.2	NC_000915	47
<i>Idiomarina loihiensis</i> L2TR	2628	843	32.1	NC_006512	48
<i>Legionella pneumophila</i> str. Lens*	2878	772	26.8	NC_006369	49
<i>Leptospira interrogans</i> serovar Copenhageni str. Fiocruz L1-130*	3394	796	23.5	NC_005823	50
<i>Mannheimia succiniciproducens</i> MBEL55E	2380	603	25.3	NC_006300	51
<i>Mesorhizobium loti</i> MAFF303099	6743	1911	28.3	NC_002678	3
<i>Neisseria gonorrhoeae</i> FA 1090*	2002	530	26.5	NC_002946	52
<i>Neisseria meningitidis</i> Z2491*	2065	550	26.6	NC_003116	53
<i>Nitrobacter winogradskyi</i> Nb-255	3122	881	28.2	NC_007406	54
<i>Nitrosomonas europaea</i> ATCC 19718	2461	638	25.9	NC_004757	55
<i>Nostoc</i> sp. PCC 7120	5366	1219	22.7	NC_003272	56
<i>Oceanobacillus iheyensis</i> HTE831	3500	752	21.5	NC_004193	57
<i>Pasteurella multocida</i> subsp. multocida str. Pm70*	2015	595	29.5	NC_002663	58
<i>Pelobacter carbinolicus</i> DSM 2380	3118	803	25.8	NC_007498	59
<i>Pelodictyon luteolum</i> DSM 273	2083	541	26.0	NC_007512	60
<i>Photobacterium profundum</i> SS9 chromosome 1	3416	941	27.5	NC_006370	61
<i>Pirellula</i> sp.	7325	2043	27.9	NC_005027	15
<i>Porphyromonas gingivalis</i> W83*	1909	509	26.7	NC_002950	62
<i>Prochlorococcus marinus</i> str. MIT 9313	2265	614	27.1	NC_005071	63
<i>Pseudoalteromonas haloplanktis</i> TAC125 chromosome I	2940	942	32.0	NC_007481	64
<i>Pseudomonas aeruginosa</i> PAO1*	5567	1979	35.5	NC_002516	65
<i>Pseudomonas fluorescens</i> Pf-5	6137	2089	34.0	NC_004129	66

<i>Pseudomonas putida</i> KT2440	5350	1744	32.6	NC_002947	67
<i>Ralstonia eutropha</i> JMP134 chromosome 1	3439	1119	32.5	NC_007347	68
<i>Ralstonia solanacearum</i> *	3440	1166	33.9	NC_003295	69
<i>Rhodobacter sphaeroides</i> 2.4.1 chromosome 1	3022	932	30.8	NC_007493	70
<i>Rhodopirellula baltica</i> SH 1	7325	2043	27.9	NC_005027	15
<i>Rhodopseudomonas palustris</i> CGA009	4813	1576	32.7	NC_005296	71
<i>Rickettsia conorii</i> str. Malish 7*	1374	258	18.8	NC_003103	72
<i>Rickettsia felis</i> URRWXC2*	1400	244	17.4	NC_007109	73
<i>Rickettsia prowazekii</i> str. Madrid Ei*	835	176	21.1	NC_000963	74
<i>Rickettsia typhi</i> str. Wilmingtoni*	838	172	20.5	NC_006142	75
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Choleraesuis str.*	4441	1314	29.6	NC_006905	76
<i>Salmonella typhimurium</i> LT2*	4425	1358	30.7	NC_003197	77
<i>Shewanella oneidensis</i> MR-1	4324	1393	32.2	NC_004347	78
<i>Shigella flexneri</i> 2a str. 2457T*	4068	1052	25.9	NC_004741	79
<i>Shigella sonnei</i> Ss046*	4223	1086	25.7	NC_007384	80
<i>Silicibacter pomeroyi</i> DSS-3	3810	1155	30.3	NC_003911	81
<i>Sinorhizobium meliloti</i> 1021	3341	1021	30.6	NC_003047	82
<i>Symbiobacterium thermophilum</i> IAM 14863	3337	901	27.0	NC_006177	83
<i>Synechococcus</i> sp. CC9605	2638	688	26.1	NC_007516	84
<i>Synechocystis</i> sp. PCC 6803	3167	783	24.7	NC_000911	85
<i>Thermoanaerobacter tengcongensis</i> MB4	2588	524	20.2	NC_003869	86
<i>Thermotoga maritima</i> MSB8	1858	421	22.7	NC_000853	87
<i>Thermus thermophilus</i> HB8	1973	620	31.4	NC_006461	88
<i>Thiobacillus denitrificans</i> ATCC 25259	2827	1019	36.0	NC_007404	89
<i>Thiomicrospira crunogena</i> XCL-2	2192	597	27.2	NC_007520	90
<i>Thiomicrospira denitrificans</i> ATCC 33889	2097	556	26.5	NC_007575	91
<i>Treponema denticola</i> ATCC 35405*	2767	772	27.9	NC_002967	92
<i>Treponema pallidum</i> subsp. <i>pallidum</i> str. Nichols*	1036	348	33.6	NC_000919	93

<i>Ureaplasma parvum</i> serovar 3 str. ATCC 700970*	614	119	19.4	NC_002162	94
<i>Vibrio cholerae</i> O1 biovar eltor str. N16961 chromosome I*	2742	799	29.1	NC_002505	95
<i>Vibrio fischeri</i> ES114 chromosome I	2575	756	29.4	NC_006840	96
<i>Vibrio parahaemolyticus</i> RIMD 2210633 chromosome I*	3080	904	29.4	NC_004603	97
<i>Vibrio vulnificus</i> YJ016 chromosome I*	3259	944	29.0	NC_005139	98
<i>Wigglesworthia glossinidia</i> endosymbiont of <i>Glossina brevipalpis</i>	611	79	12.9	NC_004344	99
<i>Wolbachia</i> endosymbiont of <i>Drosophila melanogaster</i>	1195	215	18.0	NC_002978	100
<i>Wolinella succinogenes</i> DSM 1740	2043	592	29.0	NC_005090	101
<i>Xanthomonas axonopodis</i> pv. citri str. 306*	4312	1606	37.2	NC_003919	102
<i>Xanthomonas campestris</i> pv. campestris str. 8004*	4273	1589	37.2	NC_007086	103
<i>Xanthomonas oryzae</i> pv. oryzae KACC10331*	4080	1254	30.7	NC_006834	104
<i>Xylella fastidiosa</i> 9a5c*	2766	742	26.8	NC_002488	105
<i>Yersinia pestis</i> CO92*	3885	1146	29.5	NC_003143	106
<i>Yersinia pseudotuberculosis</i> IP 32953*	3901	1150	29.5	NC_006155	107
<i>Zymomonas mobilis</i> subsp. mobilis ZM4	1998	515	25.8	NC_006526	108

Gram positive

<i>Bacillus anthracis</i> Str. Ames*	5311	936	17.6	NC_003997	109
<i>Bacillus cereus</i> ATCC 14579*	5234	914	17.5	NC_004722	110
<i>Bacillus halodurans</i> C-125	4066	580	14.3	NC_002570	111
<i>Bacillus licheniformis</i> ATCC 14580	4196	745	17.8	NC_006322	112
<i>Bacillus subtilis</i> subsp. subtilis str. 168*	4112	737	17.9	NC_000964	113
<i>Bacillus thuringiensis</i> serovar konkukian	5117	865	16.9	NC_005957	

str. 97-27*					114
<i>Bifidobacterium longum</i> NCC2705	1727	364	21.1	NC_004307	115
Candidatus <i>Blochmannia floridanus</i>	583	80	13.7	NC_005061	116
Candidatus <i>Pelagibacter ubique</i> HTCC1062	1354	431	31.8	NC_007205	117
<i>Carboxydotherrmus hydrogenoformans</i> Z-2901	2620	383	14.6	NC_007503	118
<i>Clostridium acetobutylicum</i> ATCC 824	3672	878	23.9	NC_003030	119
<i>Clostridium perfringens</i> *	2660	442	16.6	NC_003366	120
<i>Clostridium tetani</i> E88*	2373	445	18.8	NC_004557	121
<i>Cohwellia psychrerythraea</i> 34H	4910	1237	25.2	NC_003910	122
<i>Corynebacterium diphtheriae</i> NCTC 13129*	2272	466	20.5	NC_002935	123
<i>Corynebacterium efficiens</i> YS-314	2950	574	19.5	NC_004369	124
<i>Corynebacterium glutamicum</i> ATCC 13032	2993	519	17.3	NC_003450	125
<i>Corynebacterium jeikeium</i> K411*	2137	478	22.4	NC_007164	126
<i>Dehalococcoides</i> sp. CBDB1	1458	254	17.4	NC_007356	127
<i>Deinococcus radiodurans</i> R1	2629	649	24.7	NC_001263	128
<i>Enterococcus faecalis</i> V583*	3113	620	19.9	NC_004668	129
<i>Geobacillus kaustophilus</i> HTA426	3498	497	14.2	NC_006510	130
<i>Lactobacillus acidophilus</i> NCFM	1864	497	26.7	NC_006814	131
<i>Lactobacillus johnsonii</i> NCC 533	1821	433	23.8	NC_005362	132
<i>Lactobacillus plantarum</i> WCFS1	3009	704	23.4	NC_004567	133
<i>Lactococcus lactis</i> subsp. cremoris SK11	2321	453	19.5	NC_008527	134
<i>Leifsonia xyli</i> subsp. xyli str. CTCB07*	2030	421	20.7	NC_006087	135
<i>Listeria innocua</i> Clip11262	2968	534	18.0	NC_003212	136
<i>Listeria monocytogenes</i> str. 4b F2365*	2821	491	17.4	NC_002973	137
<i>Mesoplasma florum</i> L1	682	127	18.6	NC_006055	138
<i>Methylococcus capsulatus</i> str. Bath	2960	567	19.2	NC_002977	139
<i>Mycobacterium avium</i> subsp. paratuberculosis K-10*	4350	849	19.5	NC_002944	140
<i>Mycobacterium bovis</i> AF2122/97*	3920	888	22.7	NC_002945	141

<i>Mycobacterium leprae</i> TN*	1605	328	20.4	NC_002677	142
<i>Mycobacterium tuberculosis</i> CDC1551*	4189	1010	24.1	NC_002755	143
<i>Mycoplasma gallisepticum</i> R*	726	242	33.3	NC_004829	144
<i>Mycoplasma genitalium</i> *	484	142	29.3	NC_000908	145
<i>Mycoplasma hyopneumoniae</i> 232*	691	192	27.8	NC_006360	146
<i>Mycoplasma mobile</i> 163K*	633	131	20.7	NC_006908	147
<i>Mycoplasma mycoides</i> subsp. <i>mycoides</i> SC str. PG1*	1016	366	36.0	NC_005364	148
<i>Mycoplasma penetrans</i> HF-2*	1037	387	37.3	NC_004432	149
<i>Mycoplasma pneumoniae</i> *	689	252	36.6	NC_000912	150
<i>Mycoplasma pulmonis</i> *	782	216	27.6	NC_002771	151
<i>Mycoplasma synoviae</i> 53*	672	291	43.3	NC_007294	152
<i>Nitrosococcus oceani</i> ATCC 19707	2974	491	16.5	NC_007484	153
<i>Propionibacterium acnes</i> KPA171202	2297	488	21.2	NC_006085	154
<i>Psychrobacter arcticus</i> 273-4	2120	428	20.2	NC_007204	155
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> MW2*	2632	509	19.3	NC_003923	156
<i>Staphylococcus epidermidis</i> ATCC 12228	2419	442	18.3	NC_004461	157
<i>Staphylococcus haemolyticus</i> JCSC1435	2676	525	19.6	NC_007168	158
<i>Staphylococcus saprophyticus</i> subsp. <i>saprophyticus</i> *	2446	389	15.9	NC_007350	159
<i>Streptococcus agalactiae</i> 2603V/R*	2124	440	20.7	NC_004116	160
<i>Streptococcus mutans</i> UA159	1960	366	18.7	NC_004350	161
<i>Streptococcus pneumoniae</i> R6*	2043	368	18.0	NC_003098	162
<i>Streptococcus pyogenes</i> M1 GAS*	1697	337	19.9	NC_002737	163
<i>Streptococcus thermophilus</i> CNRZ1066	1915	441	23.0	NC_006449	164
<i>Streptomyces avermitilis</i> MA-4680	7575	1899	25.1	NC_003155	165
<i>Streptomyces coelicolor</i> A3(2)	7769	1914	24.6	NC_003888	166
<i>Thermobifida fusca</i> YX	3110	552	17.7	NC_007333	167
<i>Thermosynechococcus elongatus</i> BP-1	2475	361	14.6	NC_004113	168
<i>Tropheryma whipplei</i> TW08/27*	783	168	21.5	NC_004551	169

* Considered pathogenic to generate the data for Figure 3.

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