

S1. The genomes of the order Burkholderiales (taxid:80840) in the NCBI Genome List (<http://www.ncbi.nlm.nih.gov/genome/browse/>) 05-09-2014

N	Organism/Name	Kingdom	Group	SubGroup	Size (Mb)	Chr	Plasmids	Assemblies
1.	Burkholderiales bacterium JGI 0001003-L21	Bacteria	Proteobacteria	Betaproteobacteria	0,070281	-	-	1
2.	Comamonadaceae bacterium JGI 0001003-E14	Bacteria	Proteobacteria	Betaproteobacteria	0,113075	-	-	1
3.	Candidatus Zinderia insecticola	Bacteria	Proteobacteria	Betaproteobacteria	0,208564	1	-	1
4.	Comamonadaceae bacterium JGI 0001013-A16	Bacteria	Proteobacteria	Betaproteobacteria	0,295955	-	-	1
5.	Oxalobacteraceae bacterium JGI 0001004-J12	Bacteria	Proteobacteria	Betaproteobacteria	0,301938	-	-	1
6.	Oxalobacteraceae bacterium JGI 0001002-K6	Bacteria	Proteobacteria	Betaproteobacteria	0,368093	-	-	1
7.	Burkholderiales bacterium JGI 0001003-J08	Bacteria	Proteobacteria	Betaproteobacteria	0,394907	-	-	1
8.	Burkholderiales bacterium JGI 0001002-H06	Bacteria	Proteobacteria	Betaproteobacteria	0,415398	-	-	1
9.	Pelomonas	Bacteria	Proteobacteria	Betaproteobacteria	0,507844	-	-	2
10.	Leptothrix ochracea	Bacteria	Proteobacteria	Betaproteobacteria	0,510792	-	-	1
11.	Oxalobacteraceae bacterium JGI 0001012-C15	Bacteria	Proteobacteria	Betaproteobacteria	0,640975	-	-	1
12.	Burkholderiales bacterium JGI 0001003-A5	Bacteria	Proteobacteria	Betaproteobacteria	0,686115	-	-	1
13.	Oxalobacteraceae bacterium JGI 001010-B17	Bacteria	Proteobacteria	Betaproteobacteria	0,825556	-	-	1
14.	Rhizobacter	Bacteria	Proteobacteria	Betaproteobacteria	1,05799	-	-	2
15.	Taylorella asinigenitalis	Bacteria	Proteobacteria	Betaproteobacteria	1,63856	1	-	3
16.	Candidatus Glomeribacter gigasporarum	Bacteria	Proteobacteria	Betaproteobacteria	1,72695	-	-	1
17.	Taylorella equigenitalis	Bacteria	Proteobacteria	Betaproteobacteria	1,73212	1	-	3
18.	Brackiella oedipodis	Bacteria	Proteobacteria	Betaproteobacteria	1,9221	-	-	1
19.	Basilea psittacipulmonis DSM 24701	Bacteria	Proteobacteria	Betaproteobacteria	1,95907	1	-	1
20.	Polynucleobacter necessarius	Bacteria	Proteobacteria	Betaproteobacteria	2,15949	1	-	2
21.	Oligella urethralis	Bacteria	Proteobacteria	Betaproteobacteria	2,31161	-	-	1
22.	Sutterella parvirubra	Bacteria	Proteobacteria	Betaproteobacteria	2,3769	-	-	1
23.	Oxalobacter formigenes	Bacteria	Proteobacteria	Betaproteobacteria	2,48839	-	-	2

24.	Comamonadaceae bacterium H1	Bacteria	Proteobacteria	Betaproteobacteria	2,49225	-	1	1
25.	Brachymonas chironomi	Bacteria	Proteobacteria	Betaproteobacteria	2,50356	-	-	1
26.	Pelistega	Bacteria	Proteobacteria	Betaproteobacteria	2,50491	-	-	1
27.	Oxalobacteraceae bacterium JGI 0001004-K23	Bacteria	Proteobacteria	Betaproteobacteria	2,57348	-	-	1
28.	Glomeribacter sp. 1016415	Bacteria	Proteobacteria	Betaproteobacteria	2,63764	-	-	1
29.	Burkholderiales bacterium 1_1_47	Bacteria	Proteobacteria	Betaproteobacteria	2,65565	-	-	1
30.	Oligella ureolytica	Bacteria	Proteobacteria	Betaproteobacteria	2,6683	-	-	1
31.	Parasutterella excrementihominis	Bacteria	Proteobacteria	Betaproteobacteria	2,8317	-	-	1
32.	Sutterella wadsworthensis	Bacteria	Proteobacteria	Betaproteobacteria	2,98833	-	-	3
33.	Candidatus Symbiobacter mobilis CR	Bacteria	Proteobacteria	Betaproteobacteria	2,99184	1	-	1
34.	Alicyclophilus	Bacteria	Proteobacteria	Betaproteobacteria	3,00778	-	-	1
35.	Lautropia mirabilis	Bacteria	Proteobacteria	Betaproteobacteria	3,15192	-	-	1
36.	Herminiimonas	Bacteria	Proteobacteria	Betaproteobacteria	3,38088	-	-	1
37.	Limnobacter	Bacteria	Proteobacteria	Betaproteobacteria	3,39027	-	-	1
38.	Limnohabitans	Bacteria	Proteobacteria	Betaproteobacteria	3,41171	-	-	2
39.	Herminiimonas arsenicoxydans	Bacteria	Proteobacteria	Betaproteobacteria	3,42431	1	-	1
40.	Thiomonas intermedia	Bacteria	Proteobacteria	Betaproteobacteria	3,4621	1	2	1
41.	Comamonas granuli	Bacteria	Proteobacteria	Betaproteobacteria	3,50599	-	-	1
42.	Caldimonas manganoxidans	Bacteria	Proteobacteria	Betaproteobacteria	3,53212	-	-	1
43.	Simplicispira psychrophila	Bacteria	Proteobacteria	Betaproteobacteria	3,60077	-	-	1
44.	Comamonas badia	Bacteria	Proteobacteria	Betaproteobacteria	3,68102	-	-	1
45.	Bordetella avium	Bacteria	Proteobacteria	Betaproteobacteria	3,73225	1	-	1
46.	Burkholderia rhizoxinica	Bacteria	Proteobacteria	Betaproteobacteria	3,75014	1	2	1
47.	Bordetella holmesii	Bacteria	Proteobacteria	Betaproteobacteria	3,76689	1	-	19

48.	Thiomonas arsenitoxydans	Bacteria	Proteobacteria	Betaproteobacteria	3,78553	1	1	1
49.	Acidovorax ebreus	Bacteria	Proteobacteria	Betaproteobacteria	3,79657	1	-	1
50.	Hylemonella gracilis	Bacteria	Proteobacteria	Betaproteobacteria	3,82161	-	-	2
51.	Pusillimonas noertemanni	Bacteria	Proteobacteria	Betaproteobacteria	3,91698	-	-	1
52.	Pusillimonas	Bacteria	Proteobacteria	Betaproteobacteria	3,92481	1	1	1
53.	Castellaniella defragrans	Bacteria	Proteobacteria	Betaproteobacteria	3,95282	1	-	1
54.	Comamonas aquatica	Bacteria	Proteobacteria	Betaproteobacteria	3,95606	-	-	2
55.	Candidatus Burkholderia kirkii	Bacteria	Proteobacteria	Betaproteobacteria	4,00944	-	-	1
56.	Ramlibacter tataouinensis	Bacteria	Proteobacteria	Betaproteobacteria	4,07019	1	-	1
57.	Bordetella	Bacteria	Proteobacteria	Betaproteobacteria	4,07972	-	-	1
58.	Bordetella pertussis	Bacteria	Proteobacteria	Betaproteobacteria	4,15026	1	1	40
59.	Rubrivivax benzoatilyticus	Bacteria	Proteobacteria	Betaproteobacteria	4,16007	-	-	2
60.	Herbaspirillum massiliense	Bacteria	Proteobacteria	Betaproteobacteria	4,18827	-	-	1
61.	Alcaligenes faecalis	Bacteria	Proteobacteria	Betaproteobacteria	4,24831	-	-	3
62.	Rhodoferax saidenbachensis ED16	Bacteria	Proteobacteria	Betaproteobacteria	4,24939	-	-	1
63.	Thiomonas	Bacteria	Proteobacteria	Betaproteobacteria	4,38846	-	-	2
64.	Methylibium	Bacteria	Proteobacteria	Betaproteobacteria	4,44942	-	-	2
65.	Bordetella trematum	Bacteria	Proteobacteria	Betaproteobacteria	4,46463	-	-	1
66.	Oxalobacteraceae bacterium IMCC9480	Bacteria	Proteobacteria	Betaproteobacteria	4,5015	-	-	1
67.	Sphaerotilus natans	Bacteria	Proteobacteria	Betaproteobacteria	4,59282	-	-	1
68.	Comamonas composti	Bacteria	Proteobacteria	Betaproteobacteria	4,63407	-	-	1
69.	Methylibium petroleiphilum	Bacteria	Proteobacteria	Betaproteobacteria	4,64364	1	1	1
70.	Verminephrobacter aporrectodeae	Bacteria	Proteobacteria	Betaproteobacteria	4,6818	-	-	1
71.	Advenella mimigardefordensis	Bacteria	Proteobacteria	Betaproteobacteria	4,76413	1	1	1

72.	<i>Acidovorax delafieldii</i>	Bacteria	Proteobacteria	Betaproteobacteria	4,84209	-	-	1
73.	<i>Advenella kashmirensis</i>	Bacteria	Proteobacteria	Betaproteobacteria	4,84603	1	1	2
74.	<i>Bordetella parapertussis</i>	Bacteria	Proteobacteria	Betaproteobacteria	4,89957	1	1	2
75.	Comamonadaceae bacterium URHA0028	Bacteria	Proteobacteria	Betaproteobacteria	4,90412	-	-	1
76.	<i>Herbaspirillum lusitanum</i>	Bacteria	Proteobacteria	Betaproteobacteria	4,90487	-	-	1
77.	<i>Leptothrix cholodnii</i>	Bacteria	Proteobacteria	Betaproteobacteria	4,9094	1	-	1
78.	<i>Ideonella</i>	Bacteria	Proteobacteria	Betaproteobacteria	4,93675	-	-	1
79.	<i>Rhodoferax ferrireducens</i>	Bacteria	Proteobacteria	Betaproteobacteria	4,96978	1	1	1
80.	<i>Rubrivivax gelatinosus</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,04325	1	-	2
81.	<i>Alicyclophilus denitrificans</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,07075	1	2	2
82.	<i>Hydrogenophaga</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,14453	-	-	2
83.	<i>Derxia gummosa</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,18517	-	-	1
84.	<i>Collimonas fungivorans</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,1869	1	1	1
85.	<i>Comamonas</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,24376	-	1	1
86.	<i>Polaromonas glacialis</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,28404	-	-	1
87.	<i>Bordetella petrii</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,28795	1	-	3
88.	<i>Hydrogenophaga intermedia</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,28813	-	-	1
89.	<i>Massilia consociata</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,32616	-	-	1
90.	<i>Acidovorax citrulli</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,35277	1	-	2
91.	<i>Polaromonas naphthalenivorans</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,36614	1	8	1
92.	<i>Herbaspirillum frisingense</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,40833	-	-	1
93.	<i>Pandoraea pnomensua</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,43513	1	-	2
94.	<i>Acidovorax avenae</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,52228	1	-	2
95.	<i>Acidovorax oryzae</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,52678	-	-	1

96.	<i>Acidovorax radidis</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,53023	-	-	2
97.	<i>Chitinimonas koreensis</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,5861	-	-	1
98.	<i>Verminephrobacter eiseniae</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,59794	1	1	1
99.	Burkholderiales bacterium JOSHI_001	Bacteria	Proteobacteria	Betaproteobacteria	5,60063	1	-	1
100.	<i>Herbaspirillum seropedicae</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,63315	1	-	2
101.	<i>Pseudacidovorax intermedius</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,69128	-	-	1
102.	<i>Pandoraea</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,77201	1	-	5
103.	<i>Herbaspirillum huttiense</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,77792	-	-	1
104.	<i>Massilia</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,79957	-	-	3
105.	<i>Bordetella bronchiseptica</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,83141	1	-	62
106.	<i>Polaromonas</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,89868	1	2	3
107.	<i>Burkholderia mallei</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,93808	2	-	16
108.	<i>Janthinobacterium agaricidamnosum</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,949	1	-	1
109.	<i>Ralstonia solanacearum</i>	Bacteria	Proteobacteria	Betaproteobacteria	5,96071	1	2	18
110.	<i>Comamonas testosteroni</i>	Bacteria	Proteobacteria	Betaproteobacteria	6,0627	1	4	7
111.	<i>Pseudoduganella violaceinigra</i>	Bacteria	Proteobacteria	Betaproteobacteria	6,11035	-	-	1
112.	<i>Massilia alkalitolerans</i>	Bacteria	Proteobacteria	Betaproteobacteria	6,11168	-	-	1
113.	<i>Massilia timonae</i>	Bacteria	Proteobacteria	Betaproteobacteria	6,1365	-	-	1
114.	<i>Herbaspirillum rubrisubalbicans</i>	Bacteria	Proteobacteria	Betaproteobacteria	6,15299	-	-	1
115.	<i>Achromobacter arsenitoxydans</i>	Bacteria	Proteobacteria	Betaproteobacteria	6,15666	-	-	1
116.	<i>Burkholderia andropogonis</i>	Bacteria	Proteobacteria	Betaproteobacteria	6,17866	-	-	1
117.	<i>Janthinobacterium lividum</i>	Bacteria	Proteobacteria	Betaproteobacteria	6,21274	-	-	2
118.	<i>Duganella zoogloeoides</i>	Bacteria	Proteobacteria	Betaproteobacteria	6,27295	-	-	1
119.	<i>Herbaspirillum</i>	Bacteria	Proteobacteria	Betaproteobacteria	6,28457	-	-	7

120.	Burkholderia dolosa	Bacteria	Proteobacteria	Betaproteobacteria	6,4204	3	-	2
121.	Burkholderia acidipaludis	Bacteria	Proteobacteria	Betaproteobacteria	6,47543	-	-	1
122.	Xenophilus azovorans	Bacteria	Proteobacteria	Betaproteobacteria	6,53517	-	-	1
123.	Burkholderia ginsengisoli	Bacteria	Proteobacteria	Betaproteobacteria	6,54189	-	-	1
124.	Massilia niastensis	Bacteria	Proteobacteria	Betaproteobacteria	6,59449	-	-	1
125.	Variovorax	Bacteria	Proteobacteria	Betaproteobacteria	6,63234	-	1	13
126.	Mitsuaria	Bacteria	Proteobacteria	Betaproteobacteria	6,65505	-	-	1
127.	Burkholderia grimmiae	Bacteria	Proteobacteria	Betaproteobacteria	6,7043	-	-	1
128.	Delftia tsuruhatensis	Bacteria	Proteobacteria	Betaproteobacteria	6,73215	-	-	1
129.	Curvibacter gracilis	Bacteria	Proteobacteria	Betaproteobacteria	6,74824	-	-	1
130.	Delftia	Bacteria	Proteobacteria	Betaproteobacteria	6,75271	1	1	4
131.	Ralstonia	Bacteria	Proteobacteria	Betaproteobacteria	6,76618	-	-	9
132.	Cupriavidus taiwanensis	Bacteria	Proteobacteria	Betaproteobacteria	6,77177	2	2	3
133.	Curvibacter lanceolatus	Bacteria	Proteobacteria	Betaproteobacteria	6,83252	-	-	1
134.	Achromobacter piechaudii	Bacteria	Proteobacteria	Betaproteobacteria	6,8922	-	-	2
135.	Burkholderia ubonensis	Bacteria	Proteobacteria	Betaproteobacteria	6,93253	-	-	1
136.	Delftia acidovorans	Bacteria	Proteobacteria	Betaproteobacteria	6,95318	1	4	4
137.	Burkholderia multivorans	Bacteria	Proteobacteria	Betaproteobacteria	7,00881	3	1	7
138.	Oxalobacteraceae bacterium AB_14	Bacteria	Proteobacteria	Betaproteobacteria	7,02801	-	-	1
139.	Burkholderia oklahomensis	Bacteria	Proteobacteria	Betaproteobacteria	7,04716	-	-	2
140.	Ottowia thiooxydans	Bacteria	Proteobacteria	Betaproteobacteria	7,04872	-	-	1
141.	Acidovorax	Bacteria	Proteobacteria	Betaproteobacteria	7,08623	1	2	7
142.	Janthinobacterium	Bacteria	Proteobacteria	Betaproteobacteria	7,11467	1	-	4
143.	Burkholderia kururiensis	Bacteria	Proteobacteria	Betaproteobacteria	7,12886	-	-	3

144.	Alcaligenes	Bacteria	Proteobacteria	Betaproteobacteria	7,13895	-	-	3
145.	Burkholderia thailandensis	Bacteria	Proteobacteria	Betaproteobacteria	7,24599	2	-	12
146.	Cupriavidus pinatubonensis	Bacteria	Proteobacteria	Betaproteobacteria	7,25529	2	2	1
147.	Burkholderia caledonica	Bacteria	Proteobacteria	Betaproteobacteria	7,28235	-	-	1
148.	Burkholderia glumae	Bacteria	Proteobacteria	Betaproteobacteria	7,28464	2	4	5
149.	Cupriavidus metallidurans	Bacteria	Proteobacteria	Betaproteobacteria	7,29187	1	3	5
150.	Achromobacter xylosoxidans	Bacteria	Proteobacteria	Betaproteobacteria	7,35915	1	2	5
151.	Burkholderia bryophila	Bacteria	Proteobacteria	Betaproteobacteria	7,38182	-	-	1
152.	Burkholderia pseudomallei	Bacteria	Proteobacteria	Betaproteobacteria	7,45365	2	1	68
153.	Burkholderia graminis	Bacteria	Proteobacteria	Betaproteobacteria	7,47726	-	-	1
154.	Variovorax paradoxus	Bacteria	Proteobacteria	Betaproteobacteria	7,51589	2	-	5
155.	Burkholderia dilworthii	Bacteria	Proteobacteria	Betaproteobacteria	7,67907	-	-	1
156.	Burkholderia sprentiae	Bacteria	Proteobacteria	Betaproteobacteria	7,76106	-	-	1
157.	Burkholderia zhejiangensis	Bacteria	Proteobacteria	Betaproteobacteria	7,76722	-	-	1
158.	Burkholderia phenoliruptrix	Bacteria	Proteobacteria	Betaproteobacteria	7,81103	2	1	2
159.	Burkholderia ambifaria	Bacteria	Proteobacteria	Betaproteobacteria	7,85547	3	1	4
160.	Cupriavidus	Bacteria	Proteobacteria	Betaproteobacteria	7,89301	-	-	9
161.	Burkholderia ferrariae	Bacteria	Proteobacteria	Betaproteobacteria	7,93864	-	-	1
162.	Burkholderia heleaia	Bacteria	Proteobacteria	Betaproteobacteria	8,00747	-	-	1
163.	Burkholderia pyrrocinia	Bacteria	Proteobacteria	Betaproteobacteria	8,0497	-	-	2
164.	Burkholderia cenocepacia	Bacteria	Proteobacteria	Betaproteobacteria	8,05578	3	1	13
165.	Ralstonia pickettii	Bacteria	Proteobacteria	Betaproteobacteria	8,12585	3	3	7
166.	Burkholderia phytofirmans	Bacteria	Proteobacteria	Betaproteobacteria	8,21466	2	1	1
167.	Burkholderia vietnamiensis	Bacteria	Proteobacteria	Betaproteobacteria	8,39107	3	5	1

168.	Cupriavidus basilensis	Bacteria	Proteobacteria	Betaproteobacteria	8,54679	-	-	2
169.	Burkholderia glathei	Bacteria	Proteobacteria	Betaproteobacteria	8,63738	-	-	1
170.	Burkholderia mimosarum	Bacteria	Proteobacteria	Betaproteobacteria	8,64028	-	-	3
171.	Burkholderia bannensis	Bacteria	Proteobacteria	Betaproteobacteria	8,64877	-	-	1
172.	Burkholderia lata	Bacteria	Proteobacteria	Betaproteobacteria	8,67628	3	-	1
173.	Burkholderia phymatum	Bacteria	Proteobacteria	Betaproteobacteria	8,67656	2	2	1
174.	Burkholderia fungorum	Bacteria	Proteobacteria	Betaproteobacteria	8,69621	-	-	1
175.	Azohydromonas australica	Bacteria	Proteobacteria	Betaproteobacteria	8,78678	-	-	1
176.	Burkholderia cepacia	Bacteria	Proteobacteria	Betaproteobacteria	8,94713	2	3	5
177.	Burkholderia gladioli	Bacteria	Proteobacteria	Betaproteobacteria	9,0523	2	4	3
178.	Bordetella hinzii	Bacteria	Proteobacteria	Betaproteobacteria	9,13822	-	-	8
179.	Burkholderia caribensis	Bacteria	Proteobacteria	Betaproteobacteria	9,43603	-	-	1
180.	Burkholderia nodosa	Bacteria	Proteobacteria	Betaproteobacteria	9,62797	-	-	1
181.	Burkholderia xenovorans	Bacteria	Proteobacteria	Betaproteobacteria	9,73114	3	-	1
182.	Cupriavidus necator	Bacteria	Proteobacteria	Betaproteobacteria	9,74138	2	2	3
183.	Burkholderia sordidicola	Bacteria	Proteobacteria	Betaproteobacteria	10,2619	-	-	1
184.	Burkholderia oxyphila	Bacteria	Proteobacteria	Betaproteobacteria	10,6477	-	-	1
185.	Burkholderia	Bacteria	Proteobacteria	Betaproteobacteria	10,9184	3	3	39
186.	Burkholderia terrae	Bacteria	Proteobacteria	Betaproteobacteria	11,2941	-	-	2

S2. Evolutionary divergence between nucleotide sequences of 17 STs.

The number of base differences per site from analysis between nucleotide sequences is shown. All results are based on the pairwise analysis of 17 sequences

	ST_28	ST_241	ST_728	ST_709	ST_714	ST_208	ST_708	ST_727	ST_862	ST_710	ST_878	ST_711	ST_712	ST_835	ST_51	ST_102	ST_729
ST_28																	
ST_241	0.003																
ST_728	0.003	0.002															
ST_709	0.005	0.004	0.003														
ST_714	0.002	0.003	0.003	0.004													
ST_208	0.004	0.003	0.003	0.004	0.002												
ST_708	0.004	0.003	0.003	0.003	0.004	0.003											
ST_727	0.021	0.021	0.020	0.020	0.019	0.019	0.019										
ST_862	0.022	0.022	0.021	0.022	0.020	0.021	0.021	0.008									
ST_710	0.022	0.022	0.022	0.022	0.021	0.021	0.020	0.008	0.009								
ST_878	0.023	0.023	0.022	0.022	0.021	0.022	0.021	0.009	0.010	0.005							
ST_711	0.057	0.057	0.056	0.057	0.056	0.056	0.057	0.056	0.058	0.058	0.058						
ST_712	0.058	0.058	0.057	0.058	0.057	0.057	0.058	0.056	0.058	0.059	0.060	0.003					
ST_835	0.060	0.060	0.060	0.060	0.058	0.058	0.059	0.058	0.061	0.060	0.061	0.011	0.011				
ST_51	0.051	0.052	0.051	0.051	0.050	0.051	0.051	0.047	0.049	0.049	0.048	0.065	0.066	0.068			
ST_102	0.037	0.038	0.038	0.037	0.037	0.037	0.038	0.040	0.040	0.040	0.040	0.065	0.066	0.067	0.054		
ST_729	0.060	0.061	0.060	0.058	0.059	0.059	0.059	0.056	0.058	0.058	0.058	0.063	0.064	0.066	0.066	0.063	

S3. Evolutionary divergence between amino acid sequences of 17 STs.

The number of amino acid residues differences per site from analysis between sequences is shown. All results are based on the pairwise analysis of 17 sequences.

	ST_28	ST_241	ST_728	ST_709	ST_714	ST_208	ST_708	ST_727	ST_862	ST_710	ST_878	ST_711	ST_712	ST_835	ST_51	ST_102	ST_729
ST_28																	
ST_241	0.000																
ST_728	0.000	0.000															
ST_709	0.000	0.000	0.000														
ST_714	0.001	0.001	0.001	0.001													
ST_208	0.002	0.002	0.002	0.002	0.001												
ST_708	0.001	0.001	0.001	0.001	0.002	0.003											
ST_727	0.008	0.008	0.008	0.008	0.007	0.008	0.009										
ST_862	0.009	0.009	0.009	0.009	0.008	0.009	0.010	0.001									
ST_710	0.009	0.009	0.009	0.009	0.008	0.009	0.010	0.001	0.000								
ST_878	0.009	0.009	0.009	0.009	0.008	0.009	0.010	0.001	0.000	0.000							
ST_711	0.035	0.035	0.035	0.035	0.034	0.035	0.036	0.036	0.037	0.037	0.037						
ST_712	0.035	0.035	0.035	0.035	0.034	0.035	0.036	0.036	0.037	0.037	0.037	0.000					
ST_835	0.035	0.035	0.035	0.035	0.034	0.035	0.036	0.036	0.037	0.037	0.037	0.000	0.000				
ST_51	0.033	0.033	0.033	0.033	0.032	0.033	0.034	0.027	0.026	0.026	0.026	0.049	0.049	0.049			
ST_102	0.014	0.014	0.014	0.014	0.013	0.014	0.015	0.011	0.010	0.010	0.010	0.034	0.034	0.034	0.030		
ST_729	0.035	0.035	0.035	0.035	0.034	0.035	0.036	0.034	0.033	0.033	0.033	0.041	0.041	0.041	0.041	0.033	

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14
Var_gltB_CP0 01635.1	Aci_gltB_CP00 0512.1	Ral_gltB_CP0 06667.1	Ral_gltB_AL6 46052.1	Ach_gltB_15	Ach_gltB_14	Ach_gltB_13	Ach_gltB_12	Ach_gltB_11	Ach_gltB_10	Ach_gltB_9	Ach_gltB_8	Ach_gltB_7	Ach_gltB_6	Ach_gltB_5	Ach_gltB_4	Ach_gltB_3	Ach_gltB_2
31.9	35.4	27.5	25.7	30.3	29.9	30.7	30.3	31.0	30.7	29.9	31.4	30.3	30.7	29.6	30.7	31.4	30.3
31.2	34.2	26.4	25.0	29.9	29.6	30.3	29.9	30.7	30.3	29.6	31.0	29.9	30.3	29.2	30.3	31.1	30.0
31.5	35.0	27.1	25.3	28.5	28.8	28.8	28.5	29.9	28.8	28.1	29.6	28.5	29.6	28.5	28.8	30.3	29.2
31.2	36.6	30.1	28.6	30.7	30.7	31.0	30.7	31.4	31.0	30.3	31.8	30.7	31.1	30.3	31.0	31.8	30.7
31.5	36.2	30.1	28.2	30.3	30.3	30.7	30.3	31.1	30.7	29.9	31.4	30.3	30.7	29.9	30.7	31.5	30.3
32.3	35.8	27.8	26.4	30.7	30.3	31.0	30.7	31.4	31.0	30.3	31.8	30.7	31.1	29.9	31.0	31.8	30.7
31.5	35.0	28.2	26.1	30.7	30.7	31.1	30.7	32.2	31.1	30.3	31.8	30.7	31.9	30.3	31.1	32.6	31.5
31.9	34.2	27.1	25.3	29.9	29.6	30.3	29.9	30.7	30.3	29.5	31.0	29.9	30.3	29.2	30.3	31.1	29.9
31.9	35.0	27.1	25.3	29.9	29.6	30.3	29.9	30.7	30.3	29.6	31.0	29.9	30.3	29.2	30.3	31.1	30.0
31.5	33.8	26.8	25.3	29.6	29.2	29.9	29.6	30.3	29.9	29.2	30.7	29.6	30.0	28.8	29.9	30.7	29.6
31.5	35.0	27.8	26.0	30.7	30.3	31.0	30.7	31.4	31.0	30.3	31.8	30.7	31.1	29.9	31.0	31.8	30.7
31.5	36.2	29.7	28.6	31.1	30.3	31.4	31.1	30.3	31.4	30.7	32.2	31.1	29.9	29.2	31.4	30.7	29.5
34.5	34.4	34.2	29.9	4.2	3.4	4.7	4.2	0.8	4.4	5.0	5.0	4.2	0.8	2.3	4.4	1.0	0.3
34.1	34.0	33.8	29.5	3.9	3.1	4.5	3.9	0.5	4.2	4.7	4.7	3.9	0.5	2.1	4.2	0.8	***
35.3	34.9	34.1	30.2	4.7	3.90	5.30	4.70	0.3	5	5.5	5.5	4.7	1.3	2.9	5	***	99.3
35.7	34.9	35.0	29.5	1.3	2.60	1.30	0.80	4.7	1	1.5	1	0.8	4.7	2.6	***	95.4	96.1
33.4	32.8	33.4	28.4	2.3	2.60	2.80	2.30	2.6	2.6	3.1	3.1	2.3	2.6	***	97.6	97.3	98.1
34.9	34.9	34.6	29.9	4.4	3.60	5.00	4.40	1	4.7	5.3	5.3	4.4	***	97.6	95.6	98.8	99.5
35.3	35.3	34.6	29.1	0.5	2.30	1.00	1.00	4.5	0.8	1.3	0.8	***	95.9	97.8	99.3	95.6	96.4
36.5	35.7	35.8	30.2	0.8	3.10	0.80	0.80	5.3	0.5	1	***	99.3	95.1	97.1	99.0	94.9	95.6
35.3	35.7	34.2	29.1	0.8	3.10	0.80	0.80	5.3	0.5	***	99.0	98.8	95.1	97.1	98.5	94.9	95.6
35.7	34.9	35.0	29.9	0.3	2.60	0.30	0.30	4.7	***	99.5	99.5	99.3	95.6	97.6	99.0	95.4	96.1
34.9	34.9	34.2	30.2	4.5	3.70	5.00	4.50	***	95.6	95.1	95.1	95.9	99.0	97.6	95.6	99.8	99.5
35.3	34.5	34.6	29.5	0.5	2.3	0.5	***	95.9	99.8	99.3	99.3	99.0	95.9	97.8	99.3	95.6	96.4
35.7	35.3	35.4	30.2	0.5	2.9	***	99.5	95.4	99.8	99.3	99.3	99.0	95.4	97.3	98.8	95.1	95.9
35.7	34.9	33.4	29.9	2.3	***	97.3	97.8	96.6	97.6	97.1	97.1	97.8	96.6	97.6	97.6	96.4	97.1
35.3	35.3	34.6	29.5	***	97.8	99.5	99.5	95.9	99.8	99.3	99.3	99.5	95.9	97.8	98.8	95.6	96.4
33.8	31.1	19.9	***	75.2	75.0	74.8	75.2	74.8	75.0	75.5	74.8	75.5	75.0	76.0	75.2	74.8	75.2
33.5	29.6	***	80.1	69.2	69.9	68.7	69.2	69.4	68.9	69.4	68.4	69.2	69.2	69.9	68.9	69.4	69.7
20.8	***	72.8	74.8	71.1	71.4	71.1	71.6	71.4	71.4	70.9	70.9	71.1	71.4	72.6	71.4	71.4	71.8
***	82.5	70.4	73.1	71.1	70.9	70.9	71.1	71.4	70.9	71.1	70.4	71.1	71.4	72.3	70.9	71.1	71.8
70.6	72.1	68.7	75.5	93.2	92.5	92.7	93.2	92.2	93.0	92.5	92.5	93.2	91.7	93.2	93.0	92.2	92.2
71.8	72.1	68.9	75.0	93.2	92.2	93.0	93.2	91.0	93.0	92.5	92.5	93.2	91.0	92.7	93.0	90.8	91.5
71.1	71.8	72.6	79.1	73.1	73.3	73.1	73.5	73.8	73.3	73.8	73.3	73.5	73.3	74.5	73.8	73.8	73.8
70.9	71.6	72.3	78.9	72.8	73.1	72.8	73.3	73.5	73.1	73.5	73.1	73.3	73.1	74.3	73.5	73.5	73.5
70.6	69.2	68.0	72.6	71.1	71.1	71.4	71.6	70.6	71.4	71.8	70.9	71.1	70.6	70.9	71.4	70.4	71.1
70.6	69.4	68.9	74.0	71.6	71.6	71.4	71.1	70.6	71.4	71.8	71.1	71.8	70.6	70.9	71.1	70.6	71.1
69.7	68.7	67.5	71.8	70.4	70.9	70.6	70.9	69.9	70.6	71.1	70.4	70.6	69.9	70.1	70.9	69.7	70.4
52.7	51.2	51.2	53.9	55.8	55.8	56.1	56.3	54.4	56.1	56.3	55.6	55.8	54.6	55.8	56.3	54.1	54.6
52.4	51.0	51.0	53.6	55.6	55.6	55.8	56.1	54.1	55.8	56.1	55.3	55.6	54.4	55.6	56.1	53.9	54.4

39	Pre_gdB_AEM04091 2	140	140
40	Pre_gdB_FM20018 6.1	140	140
		140	140
		144	144
		144	144
		140	140
		140	140
		140	140
		140	140
		140	140
		144	144
		145	145
		145	145
		145	145
		141	141
		141	141
		145	145
		141	141
		145	145
		145	145
		141	141
		145	145
		141	141
		141	141
		141	141
		141	141
		148	148
		154	154
		151	151
		142	142
		141	141
		145	145
		144	144
		144	144
		161	161
		161	161
		167	167
		0	***
		***	100