

Nr.Org.	Species/strain	Group	Bilin binding GAF domains	LOV	BLUF
1	<i>Bacillus amyloliquefaciens</i> ATCC 23350	F		X	
2	<i>Bacillus amyloliquefaciens</i> CAU-B946	F		X	
3	<i>Bacillus amyloliquefaciens</i> FZB42	F		X	
4	<i>Bacillus amyloliquefaciens</i> IT-45 GN=KSO_06344	F		X	
5	<i>Bacillus amyloliquefaciens</i> TA208	F		X	
6	<i>Bacillus amyloliquefaciens</i> XH7	F		X	
7	<i>Bacillus amyloliquefaciens</i> (<i>Bacillus velezensis</i>)	F		X	
8	<i>Bacillus atrophaeus</i> str. 1942	F		X	
9	<i>Bacillus megaterium</i> ATCC 12872	F		X	
10	<i>Bacillus megaterium</i> DSM 319	F		X	
11	<i>Bacillus megaterium</i> WSH-002	F		X	
12	<i>Bacillus pumilus</i> ATCC 7061	F		XX	
13	<i>Bacillus pumilus</i> SAFR-032	F		XX	
14	<i>Bacillus selenitireducens</i> ATCC 700615	F		X	
15	<i>Bacillus subtilis</i> BSn5	F		X	
16	<i>Bacillus subtilis</i> subsp. natto BEST195	F		X	
17	<i>Bacillus subtilis</i> subsp. spizizenii ATCC 23059	F		X	
18	<i>Bacillus subtilis</i> subsp. spizizenii ATCC 6633	F		X	
19	<i>Bacillus subtilis</i> subsp. spizizenii TU-B-10	F		X	
20	<i>Bacillus subtilis</i> subsp. subtilis RO-NN-1	F		X	
21	<i>Bacillus subtilis</i> subsp. subtilis str. 168	F		X	
22	<i>Bacillus subtilis</i> subsp. subtilis str. SC-8	F		X	
23	<i>Listeria grayi</i> DSM 20601	F		X	
24	<i>Listeria innocua</i> ATCC 33091	F		X	
25	<i>Listeria innocua</i> Clip11262	F		X	
26	<i>Listeria innocua</i> FSL J1-023	F		X	
27	<i>Listeria innocua</i> FSL S4-378	F		X	
28	<i>Listeria ivanovii</i> (strain ATCC BAA-678/ PAM 55)	F		X	
29	<i>Listeria marthii</i> FSL S4-120	F		X	
30	<i>Listeria monocytogenes</i> 10403S	F		X	
31	<i>Listeria monocytogenes</i> 4b H7858	F		X	
32	<i>Listeria monocytogenes</i> EGD-e	F		X	
33	<i>Listeria monocytogenes</i> F2365	F		X	
34	<i>Listeria monocytogenes</i> F6854	F		X	
35	<i>Listeria monocytogenes</i> F6900	F		X	
36	<i>Listeria monocytogenes</i> Finland 1998	F		X	
37	<i>Listeria monocytogenes</i> FSL J1-194	F		X	
38	<i>Listeria monocytogenes</i> FSL J2-071	F		X	
39	<i>Listeria monocytogenes</i> FSL N1-017	F		X	
40	<i>Listeria monocytogenes</i> FSL N3-165	F		X	
41	<i>Listeria monocytogenes</i> FSL R2-503	F		X	
42	<i>Listeria monocytogenes</i> FSL R2-561	F		X	
43	<i>Listeria monocytogenes</i> HPB2262	F		X	
44	<i>Listeria monocytogenes</i> J0161	F		X	
45	<i>Listeria monocytogenes</i> J1-220	F		X	
46	<i>Listeria monocytogenes</i> J1816	F		X	
47	<i>Listeria monocytogenes</i> J2818	F		X	
48	<i>Listeria monocytogenes</i> str. Scott A	F		X	
49	<i>Listeria monocytogenes</i> serotype 1/2a 08-5578	F		X	
50	<i>Listeria monocytogenes</i> serotype 1/2a 08-5923	F		X	
51	<i>Listeria monocytogenes</i> serotype 4a HCC23	F		X	
52	<i>Listeria monocytogenes</i> serotype 4a M7	F		X	
53	<i>Listeria monocytogenes</i> serotype 4b Clip81459	F		X	
54	<i>Listeria monocytogenes</i> serotype 4c L99	F		X	
55	<i>Listeria seeligeri</i> FSL N1-067	F		X	
56	<i>Listeria seeligeri</i> FSL S4-171	F		X	
57	<i>Listeria seeligeri</i> serovar 1/2b ATCC 35967	F		X	
58	<i>Listeria welshimeri</i> serovar 6b str. SLCC5334	F		X	

59	<i>Oceanobacillus iheyensis</i> HTE831	F		X	
60	<i>Paenibacillus polymyxa</i> (strain E681)	F		X	
61	<i>Paenibacillus</i> sp. HGF5	F	X		
62	<i>Paenibacillus</i> sp. HGF7	F	X		
63	<i>Planococcus donghaensis</i> MPA1U2	F		X	
64	<i>Actinosynnema mirum</i> ATCC 29888 / DSM 43827	Ac	X		
65	<i>Arthrobacter aureus</i> TC1	Ac		X	
66	<i>Beutenbergia cavernae</i> DSM 12333	Ac		X	
67	<i>Blastococcus saxobidens</i> (strain DD2)	Ac	X	X	
68	<i>Cellulomonas fimi</i> DSM 20113	Ac	X	X	
69	<i>Cellulomonas flavigena</i> DSM 20109	Ac	X	X	
70	<i>Cellvibrio gilvus</i> ATCC 13127	Ac	X		
71	<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> ATCC 33113	Ac			XX
72	<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> NCPPB 382	Ac			XX
73	<i>Corynebacterium efficiens</i> DSM 44549 / YS-314	Ac			X
74	<i>Frankia alni</i> (strain ACN14a)	Ac	X		
75	<i>Frankia</i> sp. CN3	Ac		X	
76	<i>Frankia</i> sp. str. <i>Eullc</i>	Ac		X	
77	<i>Geodermatophilus obscurus</i> DSM 43160	Ac	XX	X	
78	<i>Isoptericola variabilis</i> (strain 225)	Ac	X		
79	<i>Kineococcus radiotolerans</i> SRS30216	Ac	X	XXX	
80	<i>Leifsonia xyli</i> subsp. <i>xyli</i>	Ac			X
81	<i>Microbacterium testaceum</i> (strain StLB037)	Ac			X
82	<i>Mycobacterium colombiense</i> CECT 3035	Ac	X		
83	<i>Mycobacterium flavescens</i> ATCC 700033	Ac	X		
84	<i>Mycobacterium parascrofulaceum</i> ATCC BAA-614	Ac	X		
85	<i>Mycobacterium rhodesiae</i> (strain NBB3)	Ac	X		
86	<i>Mycobacterium</i> sp. <i>Spyr1</i>	Ac	X		
87	<i>Mycobacterium tusciae</i> JS617	Ac	X		
88	<i>Nakamurella multipartita</i> DSM 44233	Ac		XX	
89	<i>Rubrobacter xylanophilus</i> DSM 9941	Ac		X	
90	<i>Sanguibacter keddieii</i> ATCC 51767/DSM 10542	Ac	X		
91	<i>Streptomyces albus</i> J1074	Ac	X		
92	<i>Streptomyces griseus</i> subsp. <i>griseus</i> JCM 4626	Ac	X		
93	<i>Streptomyces griseus</i> XylebKG-1	Ac	X		
94	<i>Streptomyces</i> sp. <i>SirexAA-E</i>	Ac	X		
95	<i>Streptomyces venezuelae</i> ATCC 10712/ CBS 650.69	Ac	X		
96	<i>Acetobacter tropicalis</i> NBRC 101654	P (α)	X		
97	<i>Afipia</i> sp. 1NLS2	P (α)			X
98	<i>Agrobacterium</i> sp. ATCC 31749	P (α)	XX		
99	<i>Agrobacterium</i> sp. (strain H13-3)	P (α)	X	XX	
100	<i>Agrobacterium tumefaciens</i> 5A	P (α)	X	XX	
101	<i>Agrobacterium tumefaciens</i> C58	P (α)	XX		
102	<i>Agrobacterium tumefaciens</i> CCNWS0286	P (α)	XX		
103	<i>Agrobacterium tumefaciens</i> F2	P (α)	XX		
104	<i>Agrobacterium vitis</i> (strain S4 / ATCC BAA-846)	P (α)	XX	X	
105	<i>Ahrensia</i> sp. R2A130	P (α)			X
106	alpha proteobacterium BAL199	P (α) U			X
107	<i>Asticcacaulis biprosthhecum</i> C19	P (α)			X
108	<i>Asticcacaulis excentricus</i> (strain ATCC 15261)	P (α)		X	
109	<i>Azorhizobium caulinodans</i> ATCC 43989/DSM 5975	P (α)	X		
110	<i>Azospirillum amazonense</i> Y2	P (α)	X		
111	<i>Azospirillum brasilense</i> Sp245	P (α)	XX		
112	<i>Azospirillum lipoferum</i> 4B	P (α)	X		XX
113	<i>Azospirillum</i> sp. B510	P (α)	XX		
114	<i>Bradyrhizobium japonicum</i> USDA 6	P (α)	X		
115	<i>Bradyrhizobium</i> sp. BT11	P (α)	XXX	X	
116	<i>Bradyrhizobium</i> sp. ORS 285	P (α)	XX		
117	<i>Bradyrhizobium</i> sp. ORS 375	P (α)	XXXX	X	

118	<i>Bradyrhizobium</i> sp. ORS278	P (α)	xxx	x	
119	<i>Bradyrhizobium</i> sp. STM 3809	P (α)	xxx	x	xx
120	<i>Bradyrhizobium</i> sp. STM 3843	P (α)	x		
121	<i>Brevundimonas diminuta</i> ATCC 11568	P (α)			xx
122	<i>Brevundimonas</i> sp. BAL3	P (α)	x	x	xxx
123	<i>Brevundimonas subvibrioides</i> ATCC 15264	P (α)			xxxxx
124	<i>Brucella abortus</i> (strain 2308)	P (α)		x	
125	<i>Brucella abortus</i> (strain 2308 A)	P (α)		x	
126	<i>Brucella abortus</i> A13334	P (α)		x	
127	<i>Brucella abortus</i> biovar 1 str. 9-941	P (α)		x	
128	<i>Brucella abortus</i> bv. 1 str. NI010	P (α)		x	
129	<i>Brucella abortus</i> bv. 1 str. NI016	P (α)		x	
130	<i>Brucella abortus</i> bv. 1 str. NI021	P (α)		x	
131	<i>Brucella abortus</i> bv. 1 str. NI259	P (α)		x	
132	<i>Brucella abortus</i> bv. 1 str. NI435a	P (α)		x	
133	<i>Brucella abortus</i> bv. 1 str. NI474	P (α)		x	
134	<i>Brucella abortus</i> bv. 1 str. NI486	P (α)		x	
135	<i>Brucella abortus</i> bv. 1 str. NI488	P (α)		x	
136	<i>Brucella abortus</i> bv. 2 str.86/8/59	P (α)		x	
137	<i>Brucella abortus</i> bv. 3 str. Tulya	P (α)		x	
138	<i>Brucella abortus</i> bv. 4 str.292	P (α)		x	
139	<i>Brucella abortus</i> bv. 5 str. B3196	P (α)		x	
140	<i>Brucella abortus</i> bv. 6 str.870	P (α)		x	
141	<i>Brucella abortus</i> bv. 9 str.C68	P (α)		x	
142	<i>Brucella abortus</i> NCTC 8038	P (α)		x	
143	<i>Brucella abortus</i> S19	P (α)		x	
144	<i>Brucella canis</i> ATCC 23365	P (α)		x	
145	<i>Brucella canis</i> HSK A52141	P (α)		x	
146	<i>Brucella ceti</i> B1/94	P (α)		x	
147	<i>Brucella ceti</i> M13/05/1	P (α)		x	
148	<i>Brucella ceti</i> M490/95/1	P (α)		x	
149	<i>Brucella ceti</i> M644/93/1	P (α)		x	
150	<i>Brucella ceti</i> str. Cudo	P (α)		x	
151	<i>Brucella melitensis</i> (strain M28)	P (α)		x	
152	<i>Brucella melitensis</i> (strain M5-90)	P (α)		x	
153	<i>Brucella melitensis</i> 16M	P (α)		x	
154	<i>Brucella melitensis</i> ATCC 23457	P (α)		x	
155	<i>Brucella melitensis</i> biotype 1 NCTC 10094	P (α)		x	
156	<i>Brucella melitensis</i> bv. 1 str. Rev.1	P (α)		x	
157	<i>Brucella melitensis</i> bv. 2 str.63/9	P (α)		x	
158	<i>Brucella melitensis</i> bv. 3 str. Ether	P (α)		x	
159	<i>Brucella melitensis</i> NI	P (α)		x	
160	<i>Brucella microti</i> CCM 4915	P (α)		x	
161	<i>Brucella neotomae</i> 5K33	P (α)		x	
162	<i>Brucella ovis</i> ATCC 25840	P (α)		x	
163	<i>Brucella pinnipedialis</i> B2/94	P (α)		x	
164	<i>Brucella pinnipedialis</i> B2/94	P (α)		x	
165	<i>Brucella pinnipedialis</i> M292/94/1	P (α)		x	
166	<i>Brucella</i> sp. 83/13	P (α)		x	
167	<i>Brucella</i> sp. BO1	P (α)		x	
168	<i>Brucella</i> sp. BO2	P (α)		x	
169	<i>Brucella</i> sp. F5/99	P (α)		x	
170	<i>Brucella</i> sp. NF 2653	P (α)		x	
171	<i>Brucella</i> sp. NVSL 07-0026	P (α)		x	
172	<i>Brucella suis</i> 1330	P (α)		x	
173	<i>Brucella suis</i> ATCC 23445	P (α)		x	
174	<i>Brucella suis</i> bv. 3 str686	P (α)		x	
175	<i>Brucella suis</i> bv. 4 str. 40	P (α)		x	
176	<i>Brucella suis</i> bv. 5 str.513	P (α)		x	

177	<i>Brucella suis</i> VBI22	P (α)		X	
178	<i>Caulobacter crescentus</i> CB15	P (α)		X	
179	<i>Caulobacter crescentus</i> NA1000 / CB15N	P (α)		X	
180	<i>Caulobacter segnis</i> DSM 7131	P (α)	X	X	
181	<i>Caulobacter</i> sp. K31	P (α)		X	
182	<i>Citreicella</i> sp. SE45	P (α)	X	X	
183	<i>Dinoroseobacter shibae</i> DFL 12	P (α)		XXX	X
184	<i>Erythrobacter litoralis</i> HTCC2594	P (α)		XXXX	
185	<i>Erythrobacter</i> sp. NAPI	P (α)	X	X	
186	<i>Erythrobacter</i> sp. SD-21	P (α)	X	X	
187	<i>Fulvimarina pelagi</i> HTCC2506	P (α)	X	X	XXX
188	<i>Gluconacetobacter</i> sp. SXCC-1	P (α)	X		
189	<i>Gluconacetobacter xylinus</i> NBRC 3288/BCRC 11682	P (α)	X		
190	<i>Gluconobacter morbifer</i> G707	P (α)	X		
191	<i>Gluconobacter oxydans</i> 621H	P (α)	X		
192	<i>Granulibacter betshdensis</i> CGDNIH1	P (α)	X		
193	<i>Hoeflea phototrophica</i> DFL-43	P (α)		X	
194	<i>Hyphomicrobium denitrificans</i> ATCC 51888 / DSM 1869	P (α)	X		X
195	<i>Hyphomonas neptunium</i> ATCC 15444	P (α)			X
196	<i>Jannaschia</i> sp. (strain CCS1)	P (α)			XXX
197	<i>Ketogulonicigenium vulgare</i> str. Y25	P (α)		X	
198	<i>Ketogulonicigenium vulgare</i> WSH-001	P (α)		X	
199	<i>Labrenzia aggregata</i> IAM	P (α)	X		
200	<i>Labrenzia alexandrii</i> DFL-11	P (α)		X	X
201	<i>Loktanelia vestfoldensis</i> SKA53	P (α)			X
202	<i>Magnetospirillum gryphiswaldense</i>	P (α)	X		XX
203	<i>Manganese-oxidizing bacterium</i> (strain SI85-9A1)	P (α)	X		
204	<i>Maricaulis maris</i> (strain MCS10)	P (α)			XX
205	<i>Maritimibacter alkaliphilus</i> HTCC2654	P (α)	X		
206	<i>Mesorhizobium australicum</i> WSM2073	P (α)			
207	<i>Mesorhizobium australicum</i> WSM2074	P (α)			
208	<i>Mesorhizobium ciceri</i> bv. <i>biserrulae</i> (strain HAMBI 2942)	P (α)			
209	<i>Methylobacterium chloromethanicum</i> CM4	P (α)	X	XXXXXX	XXXX
210	<i>Methylobacterium extorquens</i> AM1	P (α)	X	XXXXXX	XX
211	<i>Methylobacterium extorquens</i> DM4	P (α)	X	XXXXXX	XX
212	<i>Methylobacterium extorquens</i> DSM 13060	P (α)	X	XXXXXX	XX
213	<i>Methylobacterium extorquens</i> PA1	P (α)	X	XXXXXX	XXX
214	<i>Methylobacterium nodulans</i> ORS 2060	P (α)		XX	X
215	<i>Methylobacterium populi</i> BJ001	P (α)	X	XXXXXXXX	XX
216	<i>Methylobacterium radiotolerans</i> ATCC 27329	P (α)	XXX	XXXXXX	XXXX
217	<i>Methylobacterium</i> sp. 4-46	P (α)	XX	XX	XXXXX
218	<i>Methylocella silvestris</i> BL2 / DSM 15510	P (α)	XX		
219	<i>Methylocystis</i> sp. ATCC 49242	P (α)		XXX	X
220	<i>Novosphingobium aromaticivorans</i> DSM 12444	P (α)		XX	
221	<i>Novosphingobium pentaromativorans</i> US6-1	P (α)	X		
222	<i>Novosphingobium</i> sp. PPIY	P (α)	X		
223	<i>Oceanibulbus indolifex</i> HEL-45	P (α)		X	
224	<i>Oceanicola batsensis</i> HTCC2597	P (α)	X		
225	<i>Oceanicola granulosis</i> HTCC2516	P (α)	X		
226	<i>Ochrobactrum anthropi</i> ATCC 49188	P (α)	X		
227	<i>Ochrobactrum intermedium</i> LMG 3301	P (α)			
228	<i>Parvibaculum lavamentivorans</i> DS-1	P (α)			X
229	<i>Parvularcula bermudensis</i> HTCC2503	P (α)	X		
230	<i>Phaeobacter gallaeciensis</i> 2.10	P (α)	X		
231	<i>Phaeobacter gallaeciensis</i> DSM 17395	P (α)	X		
232	<i>Phaeospirillum molischianum</i> DSM 120	P (α)			X
233	<i>Phenylobacterium zucineum</i> HLK1	P (α)	X		X
234	<i>Phaeospirillum molischianum</i> DSM 120	P (α)	X		
235	<i>Polymorphum gilvum</i> LMG 25793 / CGMCC 1.9160 / SL003B-26A1	P (α) poly			X

236	<i>Pseudovibrio</i> sp. JE062	P (α)			X
237	<i>Puniceispirillum</i> marinum (strain IMCC1322)	P (α) U			X
238	<i>Rhizobium</i> etli CIAT 652	P (α)	X		
239	<i>Rhizobium</i> etli CNPAF512	P (α)	X		
240	<i>Rhizobium</i> leguminosarum bv viciae 3841	P (α)	X	X	
241	<i>Rhizobium</i> leguminosarum bv. trifolii WSM1325	P (α)	X	XX	
242	<i>Rhizobium</i> leguminosarum bv. trifolii WSM2304	P (α)	X	X	
243	<i>Rhizobium</i> sp. PDO-076	P (α)	X		
244	<i>Rhodobacter</i> sphaeroides ATCC 17023	P (α)	XX	X	XXX
245	<i>Rhodobacter</i> sphaeroides ATCC 17025	P (α)	X	X	XXX
246	<i>Rhodobacter</i> sphaeroides ATCC 17029	P (α)			XX
247	<i>Rhodobacter</i> sphaeroides KD131	P (α)		X	XX
248	<i>Rhodobacter</i> sphaeroides WS8N	P (α)			XXX
249	<i>Rhodobacteraceae</i> bacterium HTCC2083	P (α)	X		X
250	<i>Rhodobacterales</i> bacterium Y4I	P (α)	X		X
251	<i>Rhodomicrobium</i> vannielii ATCC 17100 / ATH 3.1.1	P (α)	X		
252	<i>Rhodopseudomonas</i> palustris BisA53	P (α)	XXX		XXXX
253	<i>Rhodopseudomonas</i> palustris BisB5	P (α)	XXXXX		
254	<i>Rhodopseudomonas</i> palustris BisB18	P (α)	XX		XXX
255	<i>Rhodopseudomonas</i> palustris CGA009	P (α)	XXXXXX		XXX
256	<i>Rhodopseudomonas</i> palustris DX-1	P (α)	XXXXX		XXX
257	<i>Rhodopseudomonas</i> palustris HaA2	P (α)	XXXXXX		X
258	<i>Rhodopseudomonas</i> palustris TIE-1	P (α)	XXXXXXX		XXX
259	<i>Rhodospirillum</i> centenum ATCC 51521 / SW	P (α)	XX	X	X
260	<i>Rhodospirillum</i> photometricum DSM 122	P (α)	X		X
261	<i>Rhodospirillum</i> rubrum ATCC 11170	P (α)	X		
262	<i>Rhodospirillum</i> rubrum F11	P (α)	X		
263	<i>Roseibium</i> sp. TrichSKD4	P (α)			X
264	<i>Roseobacter</i> denitrificans OCH 114	P (α)		X	X
265	<i>Roseobacter</i> litoralis DSM 6996	P (α)		XX	X
266	<i>Roseobacter</i> sp. AzwK-3b	P (α)			X
267	<i>Roseobacter</i> sp. CCS2	P (α)		X	XX
268	<i>Roseobacter</i> sp. GAI101	P (α)			X
269	<i>Roseobacter</i> sp. MED193	P (α)			X
270	<i>Roseobacter</i> sp. SK209-2-6	P (α)			X
271	<i>Roseomonas</i> cervicalis ATCC 49957	P (α)	X	X	
272	<i>Roseovarius</i> sp. 217	P (α)			X
273	<i>Roseovarius</i> sp. HTCC2601	P (α)		X	X
274	<i>Roseovarius</i> sp. TM1035	P (α)			X
275	<i>Ruegeria</i> sp. R11	P (α)	X		
276	<i>Sagittula</i> stellata E-37	P (α)	X	X	XX
277	<i>Silicibacter</i> sp. TrichCH4B	P (α)			XX
278	<i>Silicibacter</i> sp. TM1040	P (α)	X		XX
279	<i>Sphingobium</i> chlorophenolicum L-1	P (α)			X
280	<i>Sphingobium</i> japonicum NBRC 101211 / UT26S	P (α)	X		X
281	<i>Sphingomonas</i> sp. SKA58	P (α)	X	X	X
282	<i>Sphingomonas</i> sp.S17	P (α)	X	X	X
283	<i>Sphingomonas</i> wittichii RW1	P (α)			X
284	<i>Sphingopyxis</i> alaskensis RB2256	P (α)		X	X
285	<i>Sulfitobacter</i> sp. EE-36	P (α)			X
286	<i>Sulfitobacter</i> sp. NAS-14.1	P (α)			X
287	<i>Xanthobacter</i> autotrophicus ATCC BAA-1158/Py2	P (α)	X		
288	<i>Accumulibacter</i> phosphatis (strain UW-1)	P (β)		X	
289	<i>Achromobacter</i> arsenitoxydans SY8	P (β)	X		
290	<i>Achromobacter</i> piechaudii ATCC 43553	P (β)	X		
291	<i>Achromobacter</i> xylosoxidans AXX-A	P (β)	X		
292	<i>Achromobacter</i> xylosoxidans C54	P (β)	X		
293	<i>Acidovorax</i> avenae DSM 7227	P (β)	X	X	XX
294	<i>Acidovorax</i> avenae subsp. Citrulli AAC00-1	P (β)	X	X	XX

295	<i>Acidovorax delafieldii</i> 2AN	P (β)				XX
296	<i>Acidovorax ebreus</i> TPSY	P (β)				X
297	<i>Acidovorax</i> sp. JS42	P (β)				X
298	<i>Acidovorax</i> sp. NO-1	P (β)				XXX
299	<i>Alicyclophilus denitrificans</i> DSM 14773	P (β)				X
300	<i>Alicyclophilus denitrificans</i> JCM 14587	P (β)				X
301	beta proteobacterium KB13	P (β) U				X
302	Blood disease bacterium R229	P (β)		X		
303	<i>Bordetella avium</i> (strain 197N)	P (β)				X
304	<i>Burkholderia gladioli</i> (strain BSR3)	P (β)	X			
305	<i>Burkholderia glumae</i> (strain BGR1)	P (β)	X			
306	<i>Burkholderia graminis</i> C4D1M	P (β)			X	
307	<i>Burkholderia phymatum</i> STM815	P (β)			XX	
308	<i>Burkholderia phytofirmans</i> PsJN	P (β)	X		X	
309	<i>Burkholderia</i> sp. CCGE1001	P (β)			X	
310	<i>Burkholderia</i> sp. CCGE1002	P (β)			X	
311	<i>Burkholderia</i> sp. CCGE1003	P (β)	X		X	X
312	<i>Burkholderia</i> sp. H160	P (β)			X	
313	<i>Burkholderia</i> sp. YI23	P (β)	XX		X	
314	<i>Burkholderia xenovorans</i> LB400	P (β)			X	
315	Burkholderiales bacterium JOSHI_001	P (β)			X	XXXX
316	Candidatus <i>Burkholderia kirki</i> UZHbot1	P (β)	X			
317	<i>Chromobacterium violaceum</i>	P (β)				X
318	<i>Comamonas testosteroni</i> (strain CNB-2)	P (β)				X
319	<i>Comamonas testosteroni</i> ATCC 11996	P (β)				X
320	<i>Comamonas testosteroni</i> S44	P (β)				X
321	<i>Cupriavidus basilensis</i> OR16	P (β)				X
322	<i>Cupriavidus necator</i> ATCC 17699	P (β)				X
323	<i>Cupriavidus necator</i> ATCC 43291	P (β)				X
324	<i>Cupriavidus taiwanensis</i> LMG 19424	P (β)				X
325	<i>Curvibacter putative symbiont of Hydra magnipapillata</i>	P (β)				XXX
326	<i>Delftia acidovorans</i> SPH-1	P (β)				X
327	<i>Delftia</i> sp. (strain Csl-4)	P (β)				X
328	<i>Gallionella capsiferiformans</i> (strain ES-2)	P (β)	X			
329	<i>Herbaspirillum seropedicae</i> SmR1	P (β)	X			
330	<i>Herminiimonas arsenicoxydans</i>	P (β)		X		X
331	<i>Leptothrix cholodnii</i> SP-6	P (β)				X
332	<i>Limnobacter</i> sp. MED105	P (β)				XX
333	<i>Lutiella nitroferum</i> 2002	P (β)		X		
334	<i>Methylibium petroleiphilum</i> PM1	P (β)		X		XX
335	<i>Methylotenera mobilis</i> JLW8	P (β)				X
336	<i>Methylotenera</i> sp. 301	P (β)				XX
337	<i>Methyloversatilis universalis</i> FAM5	P (β)	X			XX
338	<i>Methylovorus</i> sp. SIP3-4	P (β)	X			
339	<i>Methylovorus</i> sp. MP688	P (β)	X		X	
340	<i>Nitrospira multiformis</i> ATCC 25196	P (β)			X	
341	<i>Nitrosomonas</i> sp. AL212	P (β)			X	
342	<i>Nitrosomonas</i> sp. (strain Is79A3)	P (β)			X	
343	Oxalobacteraceae bacterium IMCC9480	P (β)	X			X
344	<i>Polaromonas naphthalenivorans</i> CJ2	P (β)			X	XX
345	<i>Polaromonas</i> sp. strain JS666	P (β)				XX
346	<i>Polynucleobacter necessarius</i> STIR1	P (β)				X
347	<i>Polynucleobacter</i> sp. QLW-P1DMWA-1	P (β)				X
348	<i>Pseudogulbenkiania</i> sp. (strain NH8B)	P (β)		X		
349	<i>Ralstonia eutropha</i> H16	P (β)				X
350	<i>Ralstonia eutropha</i> JMP134	P (β)				X
351	<i>Ralstonia metallidurans</i> CH34	P (β)				X
352	<i>Ralstonia solanacearum</i> (<i>Pseudomonas solanacearum</i>)	P (β)		X		
353	<i>Ralstonia solanacearum</i> GMI1000	P (β)		X		

354	<i>Ralstonia solanacearum</i> PSI07	P (β)		X	
355	<i>Ralstonia solanacearum</i> str. Po82	P (β)		X	
356	<i>Ralstonia solanacearum</i> UW551	P (β)		X	
357	<i>Ralstonia pickettii</i> (strain 12D)	P (β)	X		
358	<i>Ralstonia pickettii</i> (strain 12J)	P (β)	X		
359	<i>Ralstonia</i> sp. 5_2_56FAA	P (β)	X		
360	<i>Ralstonia</i> sp. 5_7_47FAA	P (β)	X		
361	<i>Ralstonia syzygii</i> R24	P (β)		X	
362	<i>Ramlibacter tataouinensis</i> ATCC BAA-407/DSM 14655	P (β)	XX	X	XX
363	<i>Rhodoferax ferrireducens</i> DSM 15236	P (β)			XX
364	<i>Rubrivivax benzoatilyticus</i> JA2	P (β)		XX	XX
365	<i>Thiomonas intermedia</i> K12	P (β)			
366	<i>Variovorax paradoxus</i> (strain EPS)	P (β)	X		XXXX
367	<i>Variovorax paradoxus</i> S110	P (β)			XX
368	<i>Verminephrobacter eiseniae</i> strain EF01-2	P (β)			XX
369	<i>Acidithiobacillus caldus</i> ATCC 51756	P (γ)		X	
370	<i>Acidithiobacillus caldus</i> str. SM-1	P (γ)		X	
371	<i>Acidithiobacillus ferrooxidans</i> ATCC 23270	P (γ)		X	
372	<i>Acidithiobacillus</i> sp. GGI-221	P (γ)		X	
373	<i>Acinetobacter baumannii</i>	P (γ)			X
374	<i>Acinetobacter baumannii</i> ATCC 17978	P (γ)			X
375	<i>Acinetobacter baumannii</i> 6013113	P (γ)			X
376	<i>Acinetobacter baumannii</i> 6013150	P (γ)			X
377	<i>Acinetobacter baumannii</i> 6014059	P (γ)			X
378	<i>Acinetobacter baumannii</i> AB0057	P (γ)			X
379	<i>Acinetobacter baumannii</i> AB210	P (γ)			X
380	<i>Acinetobacter baumannii</i> AB307-0294	P (γ)			X
381	<i>Acinetobacter baumannii</i> ABNIH1	P (γ)			X
382	<i>Acinetobacter baumannii</i> ABNIH2	P (γ)			X
383	<i>Acinetobacter baumannii</i> ABNIH3	P (γ)			X
384	<i>Acinetobacter baumannii</i> ABNIH4	P (γ)			X
385	<i>Acinetobacter baumannii</i> ACICU	P (γ)			X
386	<i>Acinetobacter baumannii</i> ATCC 19606	P (γ)			X
387	<i>Acinetobacter baumannii</i> AYE	P (γ)			X
388	<i>Acinetobacter baumannii</i> MDR-ZJ06	P (γ)			X
389	<i>Acinetobacter baumannii</i> strain 1656-2	P (γ)			X
390	<i>Acinetobacter baumannii</i> TCDC-AB0715	P (γ)			X
391	<i>Acinetobacter calcoaceticus</i> (strain PHEA-2)	P (γ)			XX
392	<i>Acinetobacter calcoaceticus</i> RUH2202	P (γ)			X
393	<i>Acinetobacter haemolyticus</i> ATCC 19194	P (γ)			X
394	<i>Acinetobacter johnsonii</i> SH046	P (γ)			X
395	<i>Acinetobacter Iwoffii</i> SH145	P (γ)		X	XX
396	<i>Acinetobacter radioresistens</i> SH164	P (γ)		X	XXXXXX
397	<i>Acinetobacter radioresistens</i> SK82	P (γ)		X	XXXXXX
398	<i>Acinetobacter</i> sp. 93A2	P (γ)			X
399	<i>Acinetobacter</i> sp. ADP1	P (γ)			XXXX
400	<i>Acinetobacter</i> sp. ATCC 27244	P (γ)			X
401	<i>Acinetobacter</i> sp. DR1	P (γ)			XX
402	<i>Acinetobacter</i> sp. NBRC 100985	P (γ)			XX
403	<i>Acinetobacter</i> sp. RUH2624	P (γ)			XXX
404	<i>Acinetobacter</i> sp. SH024	P (γ)			XX
405	<i>Alishewanella jeotgali</i> KCTC 22429	P (γ)			X
406	<i>Alkalilimnicola ehrlichei</i> MLHE-1	P (γ)	X		
407	<i>Allochromatium vinosum</i> ATCC 17899	P (γ)	XXX		XX
408	<i>Alteromonadales bacterium</i> TW-7	P (γ)			X
409	<i>Alteromonas macleodii</i> DSM 17117 Deep ecotype	P (γ)	XXX	X	
410	<i>Alteromonas</i> sp. (strain SN2)	P (γ)	X		
411	<i>Beggiatoa</i> sp. PS	P (γ)			X
412	<i>Bermanella marisrubri</i>	P (γ)		X	X

413	<i>Chromohalobacter salexigens</i> DSM 3043	P (γ)	XX	
414	<i>Citrobacter freundii</i> 4_7_47CFAA	P(γ)		X
415	<i>Citrobacter rodentium</i> (strain ICC168)	P(γ)		X
416	<i>Citrobacter</i> sp. 30_2	P(γ)		X
417	<i>Citrobacter youngae</i> ATCC 29220	P(γ)		XXX
418	<i>Congregibacter litoralis</i> KT71	P(γ)U		XXX
419	<i>Cronobacter sakazakii</i> E899	P(γ)		X
420	<i>Cronobacter turicensis</i> DSM 18703 / LMG 23827 / z3032	P(γ)		XX
421	<i>Ectothiorhodospira</i> sp.PHS-1	P (γ)	XX	X
422	<i>Enhydrobacter aerosaccus</i> SR60	P (γ)		X
423	<i>Enterobacter aerogenes</i> ATCC 13048	P(γ)		XX
424	<i>Enterobacter asburiae</i> (strain LF7a)	P(γ)		X
425	<i>Enterobacter cancerogenus</i> ATCC 35316	P(γ)		X
426	<i>Enterobacter cloacae</i> EcWSU1	P(γ)		X
427	<i>Enterobacter cloacae</i> subsp. <i>Cloacae</i> NCTC 9394	P(γ)		X
428	<i>Enterobacter cloacae</i> subsp. <i>Cloacae</i> strain ATCC 13047	P(γ)		X
429	<i>Enterobacter hormaechei</i> ATCC 49162	P(γ)		X
430	<i>Enterobacter sakazakii</i> ATCC BAA-894	P(γ)		X
431	<i>Enterobacter</i> sp. 638	P(γ)		X
432	<i>Erwinia billingiae</i> (strain Eb661)	P(γ)		X
433	<i>Erwinia tasmaniensis</i> Et1/99	P(γ)		X
434	<i>Escherichia coli</i>	P(γ)		X
435	<i>Escherichia coli</i> (strain ATCC 55124 / K011)	P(γ)		X
436	<i>Escherichia coli</i> (strain ATCC 9637)	P(γ)		X
437	<i>Escherichia coli</i> (strain 'clone D il4')	P(γ)		X
438	<i>Escherichia coli</i> (strain 'clone D i2')	P(γ)		X
439	<i>Escherichia coli</i> (strain K12)	P(γ)		X
440	<i>Escherichia coli</i> (strain UMI46)	P(γ)		X
441	<i>Escherichia coli</i> (strain UTI89 / UPEC)	P(γ)		X
442	<i>Escherichia coli</i> 1827-70	P(γ)		X
443	<i>Escherichia coli</i> 2362-75	P(γ)		X
444	<i>Escherichia coli</i> 2534-86	P(γ)		X
445	<i>Escherichia coli</i> 3030-1	P(γ)		X
446	<i>Escherichia coli</i> 3431	P(γ)		X
447	<i>Escherichia coli</i> 55989	P(γ)		X
448	<i>Escherichia coli</i> 83972	P(γ)		X
449	<i>Escherichia coli</i> AA86	P(γ)		X
450	<i>Escherichia coli</i> ATCC 33849 / DSM 4235 / K12 / DH1	P(γ)		X
451	<i>Escherichia coli</i> ATCC 8739 / DSM 1576 / Crooks	P(γ)		X
452	<i>Escherichia coli</i> B / BL21	P(γ)		X
453	<i>Escherichia coli</i> B str. REL606	P(γ)		X
454	<i>Escherichia coli</i> B088	P(γ)		X
455	<i>Escherichia coli</i> B093	P(γ)		X
456	<i>Escherichia coli</i> B171	P(γ)		X
457	<i>Escherichia coli</i> B185	P(γ)		X
458	<i>Escherichia coli</i> B354	P(γ)		X
459	<i>Escherichia coli</i> B7A	P(γ)		X
460	<i>Escherichia coli</i> BL21 (DE3)	P(γ)		X
461	<i>Escherichia coli</i> BW2952	P(γ)		X
462	<i>Escherichia coli</i> cloneA_i1	P(γ)		X
463	<i>Escherichia coli</i> DEC1A	P(γ)		X
464	<i>Escherichia coli</i> DEC1B	P(γ)		X
465	<i>Escherichia coli</i> DEC1C	P(γ)		X
466	<i>Escherichia coli</i> DEC1D	P(γ)		X
467	<i>Escherichia coli</i> DEC1E	P(γ)		X
468	<i>Escherichia coli</i> DEC2A	P(γ)		X
469	<i>Escherichia coli</i> DEC2B	P(γ)		X
470	<i>Escherichia coli</i> DEC2C	P(γ)		X
471	<i>Escherichia coli</i> DEC2D	P(γ)		X

472	<i>Escherichia coli</i> DEC2E	P(γ)	X
473	<i>Escherichia coli</i> DEC3F	P(γ)	X
474	<i>Escherichia coli</i> DEC5A	P(γ)	X
475	<i>Escherichia coli</i> DEC5B	P(γ)	X
476	<i>Escherichia coli</i> DEC5C	P(γ)	X
477	<i>Escherichia coli</i> DEC5D	P(γ)	X
478	<i>Escherichia coli</i> DEC5E	P(γ)	X
479	<i>Escherichia coli</i> DEC6A	P(γ)	X
480	<i>Escherichia coli</i> DEC6B	P(γ)	X
481	<i>Escherichia coli</i> DEC6C	P(γ)	X
482	<i>Escherichia coli</i> DEC6D	P(γ)	X
483	<i>Escherichia coli</i> DEC6E	P(γ)	X
484	<i>Escherichia coli</i> DEC7A	P(γ)	X
485	<i>Escherichia coli</i> DEC7B	P(γ)	X
486	<i>Escherichia coli</i> DEC7C	P(γ)	X
487	<i>Escherichia coli</i> DEC7D	P(γ)	X
488	<i>Escherichia coli</i> DEC7E	P(γ)	X
489	<i>Escherichia coli</i> DEC8A	P(γ)	X
490	<i>Escherichia coli</i> DEC8B	P(γ)	X
491	<i>Escherichia coli</i> DEC8C	P(γ)	X
492	<i>Escherichia coli</i> DEC8D	P(γ)	X
493	<i>Escherichia coli</i> DEC8E	P(γ)	X
494	<i>Escherichia coli</i> DEC9A	P(γ)	X
495	<i>Escherichia coli</i> DEC9B	P(γ)	X
496	<i>Escherichia coli</i> DEC9C	P(γ)	X
497	<i>Escherichia coli</i> DEC9D	P(γ)	X
498	<i>Escherichia coli</i> DEC9E	P(γ)	X
499	<i>Escherichia coli</i> DEC10A	P(γ)	X
500	<i>Escherichia coli</i> DEC10B	P(γ)	X
501	<i>Escherichia coli</i> DEC10C	P(γ)	X
502	<i>Escherichia coli</i> DEC10D	P(γ)	X
503	<i>Escherichia coli</i> DEC10E	P(γ)	X
504	<i>Escherichia coli</i> DEC11A	P(γ)	X
505	<i>Escherichia coli</i> DEC11B	P(γ)	X
506	<i>Escherichia coli</i> DEC11C	P(γ)	X
507	<i>Escherichia coli</i> DEC11D	P(γ)	X
508	<i>Escherichia coli</i> DEC11E	P(γ)	X
509	<i>Escherichia coli</i> DEC12A	P(γ)	X
510	<i>Escherichia coli</i> DEC12B	P(γ)	X
511	<i>Escherichia coli</i> DEC12C	P(γ)	X
512	<i>Escherichia coli</i> DEC12D	P(γ)	X
513	<i>Escherichia coli</i> DEC12E	P(γ)	X
514	<i>Escherichia coli</i> DEC13A	P(γ)	X
515	<i>Escherichia coli</i> DEC13B	P(γ)	X
516	<i>Escherichia coli</i> DEC13C	P(γ)	X
517	<i>Escherichia coli</i> DEC13D	P(γ)	X
518	<i>Escherichia coli</i> DEC13E	P(γ)	X
519	<i>Escherichia coli</i> DEC14A	P(γ)	X
520	<i>Escherichia coli</i> DEC14B	P(γ)	X
521	<i>Escherichia coli</i> DEC14C	P(γ)	X
522	<i>Escherichia coli</i> DEC14D	P(γ)	X
523	<i>Escherichia coli</i> DEC15A	P(γ)	X
524	<i>Escherichia coli</i> DEC15B	P(γ)	X
525	<i>Escherichia coli</i> DEC15C	P(γ)	X
526	<i>Escherichia coli</i> DEC15D	P(γ)	X
527	<i>Escherichia coli</i> DEC15E	P(γ)	X
528	<i>Escherichia coli</i> DH10B	P(γ)	X
529	<i>Escherichia coli</i> E101	P(γ)	X
530	<i>Escherichia coli</i> E110019	P(γ)	X

531	<i>Escherichia coli</i> E1167	P(γ)	X
532	<i>Escherichia coli</i> E128010	P(γ)	XX
533	<i>Escherichia coli</i> E1520	P(γ)	X
534	<i>Escherichia coli</i> E22	P(γ)	X
535	<i>Escherichia coli</i> E24377A	P(γ)	X
536	<i>Escherichia coli</i> E482	P(γ)	X
537	<i>Escherichia coli</i> EC4100B	P(γ)	X
538	<i>Escherichia coli</i> ED1a	P(γ)	X
539	<i>Escherichia coli</i> EPECa14	P(γ)	X
540	<i>Escherichia coli</i> F11	P(γ)	X
541	<i>Escherichia coli</i> FVEC1302	P(γ)	X
542	<i>Escherichia coli</i> FVEC1412	P(γ)	X
543	<i>Escherichia coli</i> G58-1	P(γ)	X
544	<i>Escherichia coli</i> H252	P(γ)	X
545	<i>Escherichia coli</i> H263	P(γ)	X
546	<i>Escherichia coli</i> H299	P(γ)	X
547	<i>Escherichia coli</i> H397	P(γ)	X
548	<i>Escherichia coli</i> H489	P(γ)	X
549	<i>Escherichia coli</i> H494	P(γ)	X
550	<i>Escherichia coli</i> H591	P(γ)	X
551	<i>Escherichia coli</i> H736	P(γ)	X
552	<i>Escherichia coli</i> IAI1	P(γ)	X
553	<i>Escherichia coli</i> IAI39	P(γ)	X
554	<i>Escherichia coli</i> M605	P(γ)	X
555	<i>Escherichia coli</i> M718	P(γ)	X
556	<i>Escherichia coli</i> M863	P(γ)	X
557	<i>Escherichia coli</i> MS 107-1	P(γ)	X
558	<i>Escherichia coli</i> MS 110-3	P(γ)	X
559	<i>Escherichia coli</i> MS 115-1	P(γ)	X
560	<i>Escherichia coli</i> MS 116-1	P(γ)	X
561	<i>Escherichia coli</i> MS 117-3	P(γ)	X
562	<i>Escherichia coli</i> MS 119-7	P(γ)	X
563	<i>Escherichia coli</i> MS 124-1	P(γ)	X
564	<i>Escherichia coli</i> MS 145-7	P(γ)	X
565	<i>Escherichia coli</i> MS 146-1	P(γ)	X
566	<i>Escherichia coli</i> MS 153-1	P(γ)	X
567	<i>Escherichia coli</i> MS 16-3	P(γ)	X
568	<i>Escherichia coli</i> MS 175-1	P(γ)	X
569	<i>Escherichia coli</i> MS 182-1	P(γ)	X
570	<i>Escherichia coli</i> MS 185-1	P(γ)	X
571	<i>Escherichia coli</i> MS 187-1	P(γ)	X
572	<i>Escherichia coli</i> MS 196-1	P(γ)	X
573	<i>Escherichia coli</i> MS 198-1	P(γ)	X
574	<i>Escherichia coli</i> MS 200-1	P(γ)	X
575	<i>Escherichia coli</i> MS 21-1	P(γ)	X
576	<i>Escherichia coli</i> MS 45-1	P(γ)	X
577	<i>Escherichia coli</i> MS 57-2	P(γ)	X
578	<i>Escherichia coli</i> MS 60-1	P(γ)	X
579	<i>Escherichia coli</i> MS 69-1	P(γ)	X
580	<i>Escherichia coli</i> MS 78-1	P(γ)	X
581	<i>Escherichia coli</i> MS 79-10	P(γ)	X
582	<i>Escherichia coli</i> MS 84-1	P(γ)	X
583	<i>Escherichia coli</i> MS 85-1	P(γ)	X
584	<i>Escherichia coli</i> NC101	P(γ)	X
585	<i>Escherichia coli</i> O1:K1 / APEC	P(γ)	X
586	<i>Escherichia coli</i> O103:H2 (strain 12009 / EHEC)	P(γ)	X
587	<i>Escherichia coli</i> O104:H4 str. 01-09591	P(γ)	X
588	<i>Escherichia coli</i> O104:H4 str. 04-8351	P(γ)	X
589	<i>Escherichia coli</i> O104:H4 str. 09-7901	P(γ)	X

590	<i>Escherichia coli</i> O104:H4 str. 11-3677	P(γ)	X
591	<i>Escherichia coli</i> O104:H4 str. 11-4404	P(γ)	X
592	<i>Escherichia coli</i> O104:H4 str. 11-4522	P(γ)	X
593	<i>Escherichia coli</i> O104:H4 str. 11-4623	P(γ)	X
594	<i>Escherichia coli</i> O104:H4 str. 11-4632 C1	P(γ)	X
595	<i>Escherichia coli</i> O104:H4 str. 11-4632 C2	P(γ)	X
596	<i>Escherichia coli</i> O104:H4 str. 11-4632 C3	P(γ)	X
597	<i>Escherichia coli</i> O104:H4 str. 11-4632 C4	P(γ)	X
598	<i>Escherichia coli</i> O104:H4 str. 11-4632 C5	P(γ)	X
599	<i>Escherichia coli</i> O104:H4 str. C227-11	P(γ)	X
600	<i>Escherichia coli</i> O104:H4 str. C236-11	P(γ)	X
601	<i>Escherichia coli</i> O104:H4 str. LB226692	P(γ)	X
602	<i>Escherichia coli</i> O111:H- (strain 11128 / EHEC)	P(γ)	X
603	<i>Escherichia coli</i> O127:H6 (strain E2348/69 / EPEC)	P(γ)	X
604	<i>Escherichia coli</i> O150:H5 (strain SE15)	P(γ)	X
605	<i>Escherichia coli</i> O157:H- str. 493-89	P(γ)	X
606	<i>Escherichia coli</i> O157:H- str. H 2687	P(γ)	X
607	<i>Escherichia coli</i> O157:H43 str. T22	P(γ)	X
608	<i>Escherichia coli</i> O157:H7 str. G5101	P(γ)	X
609	<i>Escherichia coli</i> O157:H7 str. LSU-61	P(γ)	X
610	<i>Escherichia coli</i> O17:K52:H18 (strain UMN026 / ExPEC)	P(γ)	X
611	<i>Escherichia coli</i> O18:K1:H7 (strain IHE3034 / ExPEC)	P(γ)	X
612	<i>Escherichia coli</i> O26:H11 (strain 11368 / EHEC)	P(γ)	X
613	<i>Escherichia coli</i> O44:H18 (strain 042 / EAEC)	P(γ)	X
614	<i>Escherichia coli</i> O55:H7 str. 3256-97	P(γ)	X
615	<i>Escherichia coli</i> O55:H7 str. RM12579	P(γ)	X
616	<i>Escherichia coli</i> O55:H7 str. USDA 5905	P(γ)	X
617	<i>Escherichia coli</i> O6	P(γ)	X
618	<i>Escherichia coli</i> O6:K15:H31 536 / UPEC)	P(γ)	X
619	<i>Escherichia coli</i> O83:H1 (strain NRG 857C / AIEC)	P(γ)	X
620	<i>Escherichia coli</i> O9:H4 / HS	P(γ)	X
621	<i>Escherichia coli</i> OK1180	P(γ)	X
622	<i>Escherichia coli</i> OK1357	P(γ)	X
623	<i>Escherichia coli</i> OR:K5:H- (strain ABU 83972)	P(γ)	X
624	<i>Escherichia coli</i> PCN033	P(γ)	X
625	<i>Escherichia coli</i> RN587/1	P(γ)	X
626	<i>Escherichia coli</i> S88	P(γ)	X
627	<i>Escherichia coli</i> SCI-07	P(γ)	X
628	<i>Escherichia coli</i> SE11	P(γ)	X
629	<i>Escherichia coli</i> SMS-3-5 / SECEC	P(γ)	X
630	<i>Escherichia coli</i> STEC_7v	P(γ)	X
631	<i>Escherichia coli</i> STEC_94C	P(γ)	X
632	<i>Escherichia coli</i> STEC_B2F1	P(γ)	X
633	<i>Escherichia coli</i> STEC_C165-02	P(γ)	X
634	<i>Escherichia coli</i> STEC_DG131-3	P(γ)	X
635	<i>Escherichia coli</i> STEC_EH250	P(γ)	X
636	<i>Escherichia coli</i> STEC_H.1.8	P(γ)	X
637	<i>Escherichia coli</i> STEC_MHI813	P(γ)	X
638	<i>Escherichia coli</i> STEC_S1191	P(γ)	X
639	<i>Escherichia coli</i> TA124	P(γ)	X
640	<i>Escherichia coli</i> TA143	P(γ)	X
641	<i>Escherichia coli</i> TA206	P(γ)	X
642	<i>Escherichia coli</i> TA271	P(γ)	X
643	<i>Escherichia coli</i> TW10509	P(γ)	X
644	<i>Escherichia coli</i> TX1999	P(γ)	X
645	<i>Escherichia coli</i> UMNFI8	P(γ)	X
646	<i>Escherichia coli</i> UMNK88	P(γ)	X
647	<i>Escherichia coli</i> WV_060327	P(γ)	X
648	<i>Escherichia coli</i> XH001	P(γ)	X

708	<i>Nitrosococcus oceani</i> AFC27	P (Y)		X	
709	<i>Nitrosococcus oceani</i> ATCC 19707	P (Y)		X	
710	<i>Nitrosococcus watsoni</i> (strain C-113)	P (Y)		X	
711	<i>Pantoea ananatis</i> (strain AJ13355)	P (Y)			XX
712	<i>Pantoea ananatis</i> (strain LMG 20103)	P (Y)			XX
713	<i>Pantoea ananatis</i> LMG 5342	P (Y)			XX
714	<i>Pantoea ananatis</i> PA13	P (Y)			XX
715	<i>Pantoea</i> sp. aB	P (Y)			XXX
716	<i>Pantoea</i> sp. At-9b	P (Y)			XX
717	<i>Pantoea</i> sp. Sc1	P (Y)			XXX
718	<i>Pantoea stewartii</i> subsp. <i>stewartii</i> DC283	P (Y)			XX
719	<i>Pantoea vagans</i> (strain C9-1)	P (Y)			XXX
720	<i>Pseudoalteromonas atlantica</i> T6c /ATCC BAA-1087	P (Y)	X		XX
721	<i>Pseudoalteromonas</i> sp. BSi20311	P (Y)			X
722	<i>Pseudoalteromonas</i> sp. BSi20439	P (Y)			X
723	<i>Pseudoalteromonas</i> sp. BSi20480	P (Y)			X
724	<i>Pseudoalteromonas</i> sp. BSi20495	P (Y)		X	
725	<i>Pseudoalteromonas</i> sp. BSi20652	P (Y)			X
726	<i>Pseudoalteromonas</i> sp. (strain SM9913)	P (Y)		X	X
727	<i>Pseudoalteromonas tunicata</i> D2	P (Y)			XX
728	<i>Pseudomonas aeruginosa</i> 2192	P (Y)	X		
729	<i>Pseudomonas aeruginosa</i> 138244	P (Y)	X		
730	<i>Pseudomonas aeruginosa</i> 152504	P (Y)	X		
731	<i>Pseudomonas aeruginosa</i> 39016	P (Y)	X		
732	<i>Pseudomonas aeruginosa</i> ATCC 15692/PAO1/1C/PRS 101/LMG 12228	P (Y)	X		
733	<i>Pseudomonas aeruginosa</i> C3719	P (Y)	X		
734	<i>Pseudomonas aeruginosa</i> strain LESB58	P (Y)	X		
735	<i>Pseudomonas aeruginosa</i> M18	P (Y)	X		
736	<i>Pseudomonas aeruginosa</i> MPAO1/P1	P (Y)	X		
737	<i>Pseudomonas aeruginosa</i> MPAO1/P2	P (Y)	X		
738	<i>Pseudomonas aeruginosa</i> NCMG1179	P (Y)	X		
739	<i>Pseudomonas aeruginosa</i> NCGM2.S1	P (Y)	X		
740	<i>Pseudomonas aeruginosa</i> PA7	P (Y)	X		
741	<i>Pseudomonas aeruginosa</i> UCBBP-PA14	P (Y)	X		
742	<i>Pseudomonas brassicacearum</i> NFM421	P (Y)	X	X	
743	<i>Pseudomonas entomophila</i> L48	P (Y)	X		
744	<i>Pseudomonas fluorescens</i> F113	P (Y)		X	
745	<i>Pseudomonas fluorescens</i> PF0-1	P (Y)	X	X	
746	<i>Pseudomonas fluorescens</i> PF-5	P (Y)	X	X	
747	<i>Pseudomonas fluorescens</i> (strain SBW25)	P (Y)	X	X	
748	<i>Pseudomonas fluorescens</i> WH6	P (Y)	X	XX	
749	<i>Pseudomonas fulva</i> (strain 12-X)	P (Y)	X	XX	
750	<i>Pseudomonas mendocina</i> (strain NK-01)	P (Y)	X	XX	
751	<i>Pseudomonas mendocina</i> ymp	P (Y)		X	
752	<i>Pseudomonas psychrotolerans</i> L19	P (Y)	XX	XX	
753	<i>Pseudomonas putida</i> (<i>Arthrobacter siderocapsulatus</i>)	P (Y)	XX	X	
754	<i>Pseudomonas putida</i> F1	P (Y)	XX	XX	
755	<i>Pseudomonas putida</i> GB-1	P (Y)	XX	X	
756	<i>Pseudomonas putida</i> KT2440	P (Y)	XX	XX	
757	<i>Pseudomonas putida</i> S16	P (Y)	X	XX	
758	<i>Pseudomonas putida</i> (strain BIRD-1)	P (Y)	XX	XX	
759	<i>Pseudomonas putida</i> (strain W619)	P (Y)	XX	XX	
760	<i>Pseudomonas savastanoi</i> pv. <i>savastanoi</i> NCPPB 3335	P (Y)	XX	X	
761	<i>Pseudomonas</i> sp. 2_1_26	P (Y)	X		
762	<i>Pseudomonas</i> sp. TJI-51	P (Y)	X	XXX	
763	<i>Pseudomonas stutzeri</i> DSM 4166	P (Y)	X	XXX	
764	<i>Pseudomonas stutzeri</i> DSM 5190	P (Y)	X	XXX	
765	<i>Pseudomonas stutzeri</i> ATCC 14405	P (Y)	X		
766	<i>Pseudomonas stutzeri</i> (strain A1501)	P (Y)	X	XXX	

767	<i>Pseudomonas syringae</i> Cit 7	P (Y)	X		XXX
768	<i>Pseudomonas syringae</i> pv. <i>aceris</i> str.M302273PT	P (Y)	XX		XXX
769	<i>Pseudomonas syringae</i> pv. <i>Actinidiae</i> str.M302091	P (Y)	XX		XXX
770	<i>Pseudomonas syringae</i> pv. <i>aesculi</i> str. 0893_23	P (Y)	XX		XXX
771	<i>Pseudomonas syringae</i> pv. <i>aptata</i> str. DSM 50252	P (Y)	XX		
772	<i>Pseudomonas syringae</i> pv. <i>glycinea</i> str. B076	P (Y)	XX		X
773	<i>Pseudomonas syringae</i> pv. <i>glycinea</i> str. race 4	P (Y)	XX		X
774	<i>Pseudomonas syringae</i> pv. <i>japonica</i> str. M301072PT	P (Y)	XX		X
775	<i>Pseudomonas syringae</i> pv. <i>lachrymans</i> str. M301315	P (Y)	XX		
776	<i>Pseudomonas syringae</i> pv. <i>lachrymans</i> str. M302278PT	P (Y)	X		
777	<i>Pseudomonas syringae</i> pv. <i>maculicola</i> str. ES4326	P (Y)	X		X
778	<i>Pseudomonas syringae</i> pv. <i>mori</i> str. 301020	P (Y)	X		X
779	<i>Pseudomonas syringae</i> pv. <i>morsprunorum</i> str. M302280PT	P (Y)	X		X
780	<i>Pseudomonas syringae</i> pv. <i>oryzae</i> str. 1_6	P (Y)	XX		X
781	<i>Pseudomonas syringae</i> pv. <i>phaseolicola</i> 1448A	P (Y)	XX		X
782	<i>Pseudomonas syringae</i> pv. <i>pisi</i> str. 1704B	P (Y)	XX		X
783	<i>Pseudomonas syringae</i> pv. <i>syringae</i> B728a	P (Y)	XX		X
784	<i>Pseudomonas syringae</i> pv. <i>tabaci</i> ATCC 11528	P (Y)	XX		X
785	<i>Pseudomonas syringae</i> pv. <i>tomato</i> DC3000	P (Y)	XX		X
786	<i>Pseudomonas syringae</i> pv. <i>tomato</i> T1	P (Y)	XX		X
787	<i>Pseudoxanthomonas spadix</i> BD-a59	P (Y)	X		
788	<i>Pseudoxanthomonas suwonensis</i> 11-1	P (Y)	X		
789	<i>Psychrobacter arcticum</i>	P (Y)			X
790	<i>Psychrobacter cryohalolentis</i> (strain K5)	P (Y)			XXX
791	<i>Psychrobacter</i> sp. 1501(2011)	P (Y)			XX
792	<i>Psychrobacter</i> sp. PRwf-1	P (Y)			XX
793	<i>Psychromonas ingrahamii</i> (strain 37)	P (Y)			XX
794	<i>Rahnella aquatilis</i> ATCC 33071	P (Y)			X
795	<i>Rahnella aquatilis</i> HX2	P (Y)			X
796	<i>Rahnella</i> sp. (strain Y9602)	P (Y)			X
797	<i>Reinekea</i> sp. MED297	P (Y) Rei			X
798	<i>Rheinheimera</i> sp. A13L	P (Y)			X
799	<i>Salinisphaera shabanensis</i> EIL3A	P (Y)	X		X
800	<i>Serratia plymuthica</i> AS9	P (Y)		X	
801	<i>Serratia</i> sp.AS12	P (Y)		X	
802	<i>Serratia</i> sp.AS13	P (Y)		X	
803	<i>Shewanella baltica</i> BA175	P (Y)		X	
804	<i>Shewanella baltica</i> OS 117	P (Y)		X	
805	<i>Shewanella baltica</i> OS 183	P (Y)		X	
806	<i>Shewanella baltica</i> OS185	P (Y)		X	
807	<i>Shewanella baltica</i> OS223	P (Y)		X	
808	<i>Shewanella denitrificans</i> OS217	P (Y)	X		
809	<i>Shewanella oneidensis</i>	P (Y)			X
810	<i>Shewanella putrefaciens</i> CN-32	P (Y)		X	
811	<i>Shewanella</i> sp. ANA-3	P (Y)		X	
812	<i>Shewanella</i> sp. HN_41	P (Y)		X	
813	<i>Shewanella</i> sp. W3-18-1	P (Y)		X	
814	<i>Shewanella woodyi</i> ATCC 51908	P (Y)			X
815	<i>Shigella boydii</i> 5216-82	P (Y)			X
816	<i>Shigella boydii</i> ATCC 9905	P (Y)			X
817	<i>Shigella dysenteriae</i> 1012	P (Y)			X
818	<i>Shigella dysenteriae</i> 155-74	P (Y)			X
819	<i>Shigella flexneri</i> J1713	P (Y)			X
820	<i>Shigella flexneri</i> VA-6	P (Y)			X
821	<i>Shigella sonnei</i> 53G	P (Y)			X
822	<i>Shigella</i> sp. D9	P (Y)			X
823	<i>Stenotrophomonas maltophilia</i> K279a	P (Y)	XX		XXXXXX
824	<i>Stenotrophomonas maltophilia</i> JV3	P (Y)	X		XXX
825	<i>Stenotrophomonas maltophilia</i> R551-3	P (Y)			XX

826	<i>Stenotrophomonas</i> sp. SKA14	P (γ)	X			XX
827	<i>Thermochromatium tepidum</i>	P (γ)	X			
828	<i>Thioalkalimicrobium aerophilum</i> AL3	P (γ)		X	X	
829	<i>Thioalkalimicrobium cyclicum</i> DSM 14477	P (γ)		X		
830	<i>Thioalkalivibrio</i> sp. (strain HL-EbGR7)	P (γ)		X	X	
831	<i>Thioalkalivibrio</i> sp. (strain K90mix)	P (γ)		X	X	
832	<i>Thioalkalivibrio thiocyanoxidans</i> ARh4	P (γ)		X		
833	<i>Thiocapsa marina</i> 5811	P (γ)	X	X		
834	<i>Thiocystis violascens</i> DSM 198	P (γ)	XXXX	X	X	
835	<i>Thiomicrospira denitrificans</i> ATCC 33889	P (γ)		X		
836	<i>Thiorhodococcus drewsii</i> AZ1	P (γ)	X			XX
837	<i>Thiorhodospira sibirica</i> ATCC 700588	P (γ)		X	XX	
838	<i>Thiorhodovibrio</i> sp. 970	P (γ)	XXX	X	XX	
839	uncultured gamma proteobacterium	P (γ) U				
840	<i>Vibrio cholera</i> RC385	P (γ)				X
841	<i>Vibrio coralliilyticus</i> ATCC BAA-450	P (γ)			XXXXX	
842	<i>Vibrio ichthyocenteri</i> ATCC 700023	P (γ)			X	
843	<i>Vibrio nigripulchritudo</i> ATCC 27043	P (γ)			XX	
844	<i>Vibrio orientalis</i> CIP 102891 = ATCC 33934	P (γ)			X	
845	<i>Vibrio parahaemolyticus</i> 16	P (γ)		X		
846	<i>Vibrio scopthalmi</i> LMG 19158	P (γ)				X
847	<i>Vibrio sinaloensis</i> DSM 21326	P (γ)				X
848	<i>Vibrio</i> sp. MED222	P (γ)				X
849	<i>Vibrio splendidus</i> 12B01	P (γ)				X
850	<i>Vibrio splendidus</i> Me132	P (γ)				X
851	<i>Vibrio tubiashii</i> ATCC 19109	P (γ)				X
852	Vibrionales bacterium SWAT-3	P (γ)				X
853	<i>Xanthomonas albilineans</i> (strain GPE PC73)	P (γ)	X	X		
854	<i>Xanthomonas axonopodis</i> pv. citri str.306	P (γ)	X	X	XX	
855	<i>Xanthomonas axonopodis</i> pv. citrumelo F1	P (γ)	X	X		
856	<i>Xanthomonas axonopodis</i> pv. punicae str. LMG 859	P (γ)	X	X	X	
857	<i>Xanthomonas campestris</i> pv campestris 8004	P (γ)	X	X		
858	<i>Xanthomonas campestris</i> pv campestris ATCC 33913	P (γ)	X	X		
859	<i>Xanthomonas campestris</i> pv. campestris B100	P (γ)	X	X		
860	<i>Xanthomonas campestris</i> pv. raphani 756C	P (γ)	X	X		
861	<i>Xanthomonas campestris</i> pv. vesicatoria 85-10	P (γ)	X	X		
862	<i>Xanthomonas citri</i> pv. mangiferaeindicae LMG 94	P (γ)	X			X
863	<i>Xanthomonas fuscans</i> subsp. aurantifolii str. ICPB 10535	P (γ)	X	X	XX	
864	<i>Xanthomonas fuscans</i> subsp. aurantifolii str. ICPB 11122	P (γ)	X	X		
865	<i>Xanthomonas gardneri</i> ATCC 19865	P (γ)	X	X		
866	<i>Xanthomonas oryzae</i> pv. oryzae MAFF 311018	P (γ)	X	X		
867	<i>Xanthomonas oryzae</i> pv. oryzae PXO99A	P (γ)	X	X		
868	<i>Xanthomonas oryzae</i> pv. oryzicola BLS256	P (γ)	X	X		
869	<i>Xanthomonas perforans</i> 91-118	P (γ)	X	X	X	
870	<i>Xanthomonas vesicatoria</i> ATCC 35937	P (γ)	X	X		
871	<i>Bdellovibrio bacteriovorus</i>	P (δ)				X
872	<i>Corallococcus coralloides</i> DSM 2259	P (δ)	X			
873	<i>Desulfatibacillum alkenivorans</i> AK-011	P (δ)				X
874	<i>Desulfococcus oleovorans</i> Hxd3	P (δ)				X
875	<i>Haliangium ochraceum</i> DSM 14365 / JCM 11303	P (δ)	X			
876	<i>Myxococcus xanthus</i> DK1622	P (δ)				X
877	<i>Stigmatella aurantiaca</i> DW4/3-1	P (δ)	XXX			X
878	<i>Sulfuricurvum kujiense</i> DSM 16994	P (ε)		X	X	
879	<i>Magnetococcus</i> sp. MC-1	P (Magn)				X
880	uncultured proteobacterium del RiverFos06H03	PUnc				XXX
881	uncultured proteobacterium	PUnc				X
882	uncultured proteobacterium	PUnc				X
883	<i>Chloroflexus aggregans</i> DSM 9485	Ch1		X		
884	<i>Chloroflexus aurantiacus</i> ATCC 29364	Ch1		X		

944	<i>Chloroherpeton thalassium</i> ATCC35110	Bact/Ch		XX	X
945	<i>Chryseobacterium gleum</i> ATCC 35910	Bact/Ch	X		
946	<i>Cytophaga hutchinsonii</i> ATCC 33406/NCIMB 9469	Bact/Ch	X		
947	<i>Dokdonia donghaensis</i> MED134	Bact/Ch	X		X
948	<i>Dyadobacter fermentans</i> ATCC 700827/DSM 18053	Bact/Ch	X		
949	<i>Flavobacteria bacterium</i> BBFL7	Bact/Ch			X
950	Flavobacteriaceae bacterium (strain 3519-10)	Bact/Ch	X		
951	<i>Flavobacterium johnsoniae</i> ATCC 17061/DSM 2064/UW101	Bact/Ch	XX		
952	<i>Flavobacterium</i> sp. (strain MED217)	Bact/Ch	X		
953	<i>Gillisia limnaea</i> DSM 15749	Bact/Ch			XXXX
954	<i>Gramella forsetii</i> KT0803	Bact/Ch	X		X
955	<i>Kordia algicida</i> OT-1	Bact/Ch	X		
956	<i>Krokinobacter</i> sp. 4H-3-7-5	Bact/Ch	X		XX
957	<i>Marivirga tractuosa</i> ATCC 23168	Bact/Ch			X
958	<i>Microscilla marina</i> ATCC 23134	Bact/Ch			X
959	<i>Mucilaginibacter paludis</i> DSM 18603	Bact/Ch	X		XXXX
960	<i>Muricauda ruestringensis</i> (strain DSM 13258)	Bact/Ch		X	
961	<i>Niastella koreensis</i> DSM 17620 / KACC 11465	Bact/Ch	X		
962	<i>Pedobacter heparinus</i> DSM 2366	Bact/Ch	X		
963	<i>Pedobacter</i> sp. BAL39	Bact/Ch	XX	X	X
964	<i>Pedobacter saltans</i> DSM 12145	Bact/Ch	X		
965	<i>Polaribacter dokdonensis</i> MED152	Bact/Ch			X
966	<i>Polaribacter</i> sp.MED152	Bact/Ch	X		
967	<i>Psychroflexus torquis</i> ATCC 700755	Bact/Ch			X
968	<i>Sphingobacterium</i> sp. (strain 21)	Bact/Ch	X	X	
969	<i>Sphingobacterium spiritivorum</i> ATCC 33300	Bact/Ch	XX		
970	<i>Sphingobacterium spiritivorum</i> ATCC 33861	Bact/Ch	XX		
971	<i>Spirosoma linguale</i> ATCC 33905/DSM 74	Bact/Ch	X		XX
972	unidentified eubacterium SCB49	Bact/Ch			X
973	<i>Zobellia galactanivorans</i> DSM 12802	Bact/Ch			XX
974	<i>Zunongwangia profunda</i> DSM 18752	Bact/Ch	X		X
975	<i>Deinococcus deserti</i> VCD115	DeTh	XX		
976	<i>Deinococcus gobiensis</i> I-0	DeTh	X		
977	<i>Deinococcus maricopensis</i> DSM 21211	DeTh	X		
978	<i>Deinococcus radiodurans</i> ATCC 13939/DSM 20539	DeTh	X		
979	<i>Meiothermus ruber</i> ATCC 35948	DeTh		X	
980	<i>Truepera radiovictrix</i> DSM 17093	DeTh		XX	
981	<i>Lentisphaera araneosa</i> HTCC2155	Lent			X
982	<i>Chthoniobacter flavus</i> Ellin428	Verr			X
983	<i>Coraliomargarita akajimensis</i> DSM 45221	Verr			X
984	Verrucomicrobiae bacterium DG1235	Verr			XX
985	<i>Leptonema illini</i> DSM 21528	Spi			X
1	<i>Haladaptatus paucihalophilus</i> DX253	EuA		X	
2	<i>Halalkalicoccus jeotgali</i> DSM 18796	EuA		X	
3	<i>Haloarcula hispanica</i> DSM 4426	EuA		XX	
4	<i>Haloarcula marismortui</i> ATCC43049	EuA		XXX	
5	<i>Haloferax volcanii</i> DSM 3757	EuA		XXX	
6	<i>Halophilic archaeon</i> DL31	EuA		X	
7	<i>Halopiger xanaduensis</i> DSM 18323	EuA		X	
8	<i>Halorhabdus tiamatea</i> SARL4B	EuA		X	
9	<i>Halorhabdus utahensis</i> DSM 12940	EuA		X	
10	<i>Halorubrum lacusprofundi</i> ATCC 49239	EuA		XX	
11	<i>Haloterrigena turkmenica</i> DSM 5511	EuA		XX	
12	<i>Methanobacterium</i> sp. AL21	EuA		X	
13	<i>Natrialba magadii</i> ATCC 43099	EuA		X	
14	<i>Natrinema pellirubrum</i> DSM 15624	EuA		X	
15	<i>Natronobacterium gregoryi</i> SP2	EuA		XX	
16	<i>Natronomonas pharaonis</i> DSM 2160	EuA		XX	

Legenda

F	Firmicutes
Ac	Actinobacteria
P (α)	α-proteobacteria>Caulobacteriales
P (α)	α-proteobacteria>Parvularculales
P (α)	α-proteobacteria>Rhizobiales
P (α)	α-proteobacteria>Rhodobacterales
P (α)	α-proteobacteria>Rhodospirillales
P (α)	α-proteobacteria>Sphingomonadales
P (α) U	α-proteobacteria>Uncultured
P (α) poly	α-proteobacteria>Polymorphum
P (β)	β-proteobacteria>Burkholderiales
E (β)	β-proteobacteria>Gallionellales
P (β)	β-proteobacteria>Methylophilales
P (β)	β-proteobacteria>Neisseriales
P (β)	β-proteobacteria>Nitrosomonadales
P (β)	β-proteobacteria>Rhodocyclales
P (β) U	β-proteobacteria>Uncultured
E (γ)	γ-proteobacteria>Acidithiobacillales
P (γ)	γ-proteobacteria>Alteromonadales
P (γ)	γ-proteobacteria>Chromatiales
P (γ)	γ-proteobacteria> Enterobacteriales
E (γ)	γ-proteobacteria>Legionellales
E (γ)	γ-proteobacteria>Methylococcales
P (γ)	γ-proteobacteria>Oceanospirillales
P (γ)	γ-proteobacteria>Pseudomonadales
P (γ) Rei	γ-proteobacteria>Reinekea
E (γ)	γ-proteobacteria>Salinisphaerales
P (γ)	γ-proteobacteria>Thiotrichales
P (γ) U	γ-proteobacteria>Uncultured
P (γ)	γ-proteobacteria>Vibrionales
P (γ)	γ-proteobacteria>Xanthomonadales
P (δ)	δ-proteobacteria
P (ε)	ε-proteobacteria
P (Magn)	Proteobacteria>Magnetococcales
Chl	Chloroflexi
Cya	Cyanobacteria>Chroococcales
Cya	Cyanobacteria>Gloeobacteria
Cya	Cyanobacteria>Nostocales
Cya	Cyanobacteria> Oscillatoriales
Pl	Planctomycetes
Nit	Nitrospirae
Acido	Acidobacteria
Bact/Ch	Bacteroidetes/Chlorobi
DeTh	Deinococcus-Thermus
Lent	Lentisphaerae
Verr	Verrucomicrobia
EuA	Euryarchaeota

BphP-like GAF
Cph1-like GAF (Cys259)
Gapped bilin-GAF, Cys259
DXCF GAF-two cysteine (variations of the motifs are indicated)
β3-α3 Cys insert, two cysteine
TP1 (trichromatic phytochrome) CysCys motif
LOV
BLUF