



Supporting Figure. Distribution of STs involved in Horizontal Gene Transfer (HGT) events.

NJ tree depicting the phylogenetic relationships amongst unique MLST isolates. Scale bar, distance calculated according to Tamura and Nei evolutionary model. STs are indicated only with the number. Deep purple-colored number, potential HGT event. Green background and green-colored number, STs affected by HGT. Azure background and azure-colored number, major parent ST. Pink color background and red-colored number, minor parent ST. Fuchsia-colored number, ST not involved in the specific HGT event.

## eBURST Report

No. isolates = **449** | No. STs = **296** | No. re-samplings for bootstrapping = **1000**

No. loci per isolate = **7** | No. identical loci for group def = **6** | No. groups = **35**

**SLV = Single-Locus Variant ST; DLV = Double-Locus Variant ST; TLV = Three-Loci Variant ST; SAT = Satellite ST. Reader should refer to eBurst Manual for further details (web site: <http://eburst.mlst.net/>).**

### Rules used to name clonal complexes.

A clonal complex (CC):

- was named according to its putative primary founder, provided that this latter had been identified (e.g. CC23) by eBurst analysis;
- was named with the ST having the best BT score when multiple candidates existed as predicted founder (e.g. CC115);
- was named with the ST including the higher number of isolates when no predicted founder existed (e.g. CC205);
- was named with the ST having the older profile (represented here by the smallest number) when no predicted founder existed and all STs included the same number of isolates (e.g. CC42).

CC23 (group 01)		No. Isolates = 36		No. STs = 19		Predicted Founder = 23		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
<b>23</b>	9	9	6	3	0	1.66	92%	97%
197	1	6	10	2	0	1.77	32%	49%
16	3	5	8	5	0	2.0	5%	13%
257	1	4	10	4	0	2.0	7%	21%
265	1	4	9	5	0	2.05	0%	0%
264	1	4	9	5	0	2.05	0%	0%
12	5	4	8	6	0	2.11	5%	14%
56	4	4	7	7	0	2.16	4%	18%
9	1	3	10	5	0	2.11	0%	0%
202	1	3	9	5	1	2.22	0%	0%
69	1	3	9	5	1	2.22	1%	0%
192	1	2	6	8	2	2.55	0%	0%
203	1	1	9	5	3	2.55	0%	0%
70	1	1	7	8	2	2.61	0%	0%
67	1	1	6	10	1	2.61	0%	0%
49	1	1	5	10	2	2.72	0%	0%
55	1	1	4	11	2	2.77	0%	0%
189	1	1	3	9	5	3.0	0%	0%
61	1	1	3	7	7	3.11	0%	0%

CC142 (group 02)		No. Isolates = 17		No. STs = 8		Predicted Founder = 142		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
<b>142</b>	9	4	3	0	0	1.42	77%	55%
155	1	3	3	1	0	1.71	30%	22%
4	2	2	3	2	0	2.0	2%	0%
176	1	1	4	2	0	2.14	0%	0%
153	1	1	3	3	0	2.28	0%	0%
220	1	1	3	2	1	2.42	0%	0%
184	1	1	2	3	1	2.57	0%	0%
179	1	1	1	3	2	2.85	0%	0%

CC111 (group 03)		No. Isolates = 10		No. STs = 6		Predicted Founder = 111		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
<b>111</b>	4	4	1	0	0	1.2	74%	55%
223	1	3	2	0	0	1.4	36%	15%
249	1	2	3	0	0	1.6	0%	0%
268	2	1	3	1	0	2.0	0%	0%
72	1	1	3	1	0	2.0	0%	0%
218	1	1	2	2	0	2.2	0%	0%

CC18 (group 04)		No. Isolates = 9		No. STs = 5		Predicted Founder = 18		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
<b>18</b>	5	3	1	0	0	1.25	46%	14%
138	1	2	2	0	0	1.5	18%	0%
225	1	2	2	0	0	1.5	5%	0%
54	1	2	2	0	0	1.5	8%	0%
241	1	1	3	0	0	1.75	0%	0%

CC8 (group 05)		No. Isolates = 15		No. STs = 4		Predicted Founder = 8		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
<b>8</b>	10	3	0	0	0	1.0	61%	16%
25	3	2	1	0	0	1.33	4%	0%
199	1	2	1	0	0	1.33	9%	0%
195	1	1	2	0	0	1.66	0%	0%

CC115 (group 06)		No. Isolates = 4		No. STs = 4		Predicted Founder = Multiple Candidates		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
196	1	3	0	0	0	1.0	18%	13%
190	1	3	0	0	0	1.0	17%	13%
200	1	3	0	0	0	1.0	22%	13%
<b>115</b>	1	3	0	0	0	1.0	39%	13%

CC182 (group 07)		No. Isolates = 4		No. STs = 4		Predicted Founder = 182		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
<b>182</b>	1	3	0	0	0	1.0	60%	14%
183	1	2	1	0	0	1.33	6%	0%
28	1	2	1	0	0	1.33	11%	0%
181	1	1	2	0	0	1.66	0%	0%

CC62 (group 08)		No. Isolates = 4		No. STs = 4		Predicted Founder = Multiple Candidates		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
163	1	2	1	0	0	1.33	20%	0%
108	1	2	1	0	0	1.33	22%	0%
75	1	2	1	0	0	1.33	25%	0%
<b>62</b>	1	2	1	0	0	1.33	29%	0%

CC73 (group 09)		No. Isolates = 7		No. STs = 4		Predicted Founder = 73		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
<b>73</b>	3	3	0	0	0	1.0	74%	14%
94	2	1	2	0	0	1.66	0%	0%
148	1	1	2	0	0	1.66	0%	0%
99	1	1	2	0	0	1.66	0%	0%

CC1 (group 10)		No. Isolates = 3		No. STs = 4		Predicted Founder = 1		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
1	17	3	0	0	0	1.0	77%	12%
3	4	1	2	0	0	1.66	0%	0%
135	1	1	2	0	0	1.66	0%	0%
134	1	1	2	0	0	1.66	0%	0%

CC96 (group 11)		No. Isolates = 4		No. STs = 4		Predicted Founder = Multiple Candidates		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
96	1	2	1	0	0	1.33	27%	0%
34	1	2	1	0	0	1.33	28%	0%
101	1	1	1	1	0	2.0	0%	0%
86	1	1	1	1	0	2.0	0%	0%

CC33 (group 12)		No. Isolates = 3		No. STs = 3		Predicted Founder = 33		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
33	1	2	0	0	0	1.0	30%	0%
175	1	1	1	0	0	1.5	0%	0%
373	1	1	1	0	0	1.5	0%	0%

CC277 (group 13)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
280	1	1	0	0	0	1.0	***	***
277	1	1	0	0	0	1.0	***	***

CC42 (group 14)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
274	1	1	0	0	0	1.0	***	***
42	1	1	0	0	0	1.0	***	***

CC269 (group 15)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
272	1	1	0	0	0	1.0	***	***
269	1	1	0	0	0	1.0	***	***

CC260 (group 16)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
261	1	1	0	0	0	1.0	***	***
260	1	1	0	0	0	1.0	***	***

CC10 (group 17)		No. Isolates = 9		No. STs = 2		Predicted Founder = None		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
10	8	1	0	0	0	1.0	***	***
256	1	1	0	0	0	1.0	***	***

CC191 (group 18)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
ST	FREQ	SLV	DLV	TLV	SAT	Average Distance	ST Bootstrap	
							Group	Subgroup
191	1	1	0	0	0	1.0	***	***
204	1	1	0	0	0	1.0	***	***

CC97 (group 19)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
229	1	1	0	0	0	1.0	***	***
97	1	1	0	0	0	1.0	***	***

CC187 (group 20)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
222	1	1	0	0	0	1.0	***	***
187	1	1	0	0	0	1.0	***	***

CC158 (group 21)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
208	1	1	0	0	0	1.0	***	***
158	1	1	0	0	0	1.0	***	***

CC205 (group 22)		No. Isolates = 3		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
205	2	1	0	0	0	1.0	***	***
45	1	1	0	0	0	1.0	***	***

CC84 (group 23)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
166	1	1	0	0	0	1.0	***	***
84	1	1	0	0	0	1.0	***	***

CC26 (group 24)		No. Isolates = 10		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
26	9	1	0	0	0	1.0	***	***
165	1	1	0	0	0	1.0	***	***

CC144 (group 25)		No. Isolates = 4		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
164	2	1	0	0	0	1.0	***	***
144	2	1	0	0	0	1.0	***	***

CC98 (group 26)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
162	1	1	0	0	0	1.0	***	***
98	1	1	0	0	0	1.0	***	***

CC91 (group 27)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
140	1	1	0	0	0	1.0	***	***
91	1	1	0	0	0	1.0	***	***

CC92 (group 28)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
127	1	1	0	0	0	1.0	***	***
92	1	1	0	0	0	1.0	***	***

CC121 (group 29)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
122	1	1	0	0	0	1.0	***	***
121	1	1	0	0	0	1.0	***	***

CC85 (group 30)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
118	1	1	0	0	0	1.0	***	***
85	1	1	0	0	0	1.0	***	***

CC109 (group 31)		No. Isolates = 6		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
109	4	1	0	0	0	1.0	***	***
11	2	1	0	0	0	1.0	***	***

CC38 (group 32)		No. Isolates = 2		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
103	1	1	0	0	0	1.0	***	***
38	1	1	0	0	0	1.0	***	***

CC374 (group 33)		No. Isolates = 4		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
374	3	1	0	0	0	1.0	***	***
47	1	1	0	0	0	1.0	***	***

CC371 (group 34)		No. Isolates = 5		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
371	4	1	0	0	0	1.0	***	***
31	1	1	0	0	0	1.0	***	***

CC32 (group 35)		No. Isolates = 3		No. STs = 2		Predicted Founder = None		
						Average	ST Bootstrap	
ST	FREQ	SLV	DLV	TLV	SAT	Distance	Group	Subgroup
32	2	1	0	0	0	1.0	***	***
7	1	1	0	0	0	1.0	***	***

### Singletons: size 181

2; 5; 6; 13; 14; 15; 17; 19; 20; 21; 22; 24; 27; 29; 30; 35; 36; 37; 39; 40; 41; 43; 44; 46; 48; 50; 51; 52; 53; 57; 58; 59; 60; 63; 64; 65; 66; 68; 71; 74; 76; 77; 78; 79; 80; 81; 82; 83; 87; 88; 89; 90; 93; 95; 100; 102; 104; 105; 106; 107; 110; 112; 113; 114; 116; 117; 119; 120; 123; 124; 125; 126; 128; 129; 130; 131; 132; 133; 136; 137; 139; 141; 143; 145; 146; 147; 149; 150; 151; 152; 154; 156; 157; 159; 160; 161; 167; 168; 169; 170; 171; 172; 173; 174; 177; 178; 180; 185; 188; 193; 194; 198; 201; 205; 206; 207; 209; 210; 211; 212; 213; 214; 215; 216; 217; 219; 221; 224; 226; 227; 228; 230; 231; 232; 233; 234; 235; 236; 237; 238; 239; 240; 242; 243; 244; 245; 246; 247; 248; 250; 251; 252; 253; 254; 255; 258; 259; 262; 263; 266; 267; 270; 271; 273; 275; 276; 278; 279; 281; 282; 283; 284; 285; 369; 370; 372; 375; 376; 377; 379; 387.