

Table S4. Alleles and predicted protein variants of the *nuoK* gene in 44 ST-21 clonal complex and 37 ST-45 clonal complex isolates used in the GWAS and phenotypical testing.

Identifier	Group	Clonal complex	<i>nuoK</i> allele	<i>nuoK</i> predicted protein variant
1865	CLINICAL	ST-21 complex	1	A
2189	CLINICAL	ST-21 complex	1	A
2192	CLINICAL	ST-21 complex	1	A
2216	CLINICAL	ST-21 complex	1	A
2241	CLINICAL	ST-21 complex	1	A
2242	CLINICAL	ST-21 complex	1	A
2826	CLINICAL	ST-21 complex	1	A
75	FARM	ST-21 complex	1	A
113	FARM	ST-21 complex	1	A
359	FARM	ST-21 complex	1	A
55	CLINICAL	ST-45 complex	2	B
1751	CLINICAL	ST-45 complex	2	B
1861	CLINICAL	ST-45 complex	2	B
1862	CLINICAL	ST-45 complex	2	B
2015	CLINICAL	ST-45 complex	2	B
2061	CLINICAL	ST-45 complex	2	B
2069	CLINICAL	ST-45 complex	2	B
2236	CLINICAL	ST-45 complex	2	B
81	FARM	ST-45 complex	2	B
114	FARM	ST-45 complex	2	B
342	FARM	ST-45 complex	2	B
371	FARM	ST-45 complex	2	B
378	FARM	ST-45 complex	2	B
392	FARM	ST-45 complex	2	B
406	FARM	ST-45 complex	2	B
472	FARM	ST-45 complex	2	B
1800	FARM	ST-45 complex	2	B
1817	FARM	ST-45 complex	2	B
1863	CLINICAL	ST-21 complex	3	A
1932	CLINICAL	ST-21 complex	3	A
71	FARM	ST-21 complex	3	A
72	FARM	ST-21 complex	3	A
77	FARM	ST-21 complex	3	A
78	FARM	ST-21 complex	3	A
418	FARM	ST-21 complex	3	A
489	FARM	ST-21 complex	3	A
490	FARM	ST-21 complex	3	A
1707	FARM	ST-21 complex	3	A
1714	FARM	ST-21 complex	3	A
1719	FARM	ST-21 complex	3	A

1731	FARM	ST-21 complex	3	A
1856	CLINICAL	ST-21 complex	4	B
2043	CLINICAL	ST-21 complex	4	B
2135	CLINICAL	ST-21 complex	4	B
2188	CLINICAL	ST-21 complex	4	B
2195	CLINICAL	ST-21 complex	4	B
2240	CLINICAL	ST-21 complex	4	B
2245	CLINICAL	ST-21 complex	4	B
2832	CLINICAL	ST-21 complex	4	B
73	FARM	ST-21 complex	4	B
110	FARM	ST-21 complex	4	B
370	FARM	ST-21 complex	4	B
376	FARM	ST-21 complex	4	B
379	FARM	ST-21 complex	4	B
1822	FARM	ST-21 complex	4	B
74	FARM	ST-21 complex	5	-*
2179	CLINICAL	ST-45 complex	6	C
2829	CLINICAL	ST-45 complex	6	C
79	FARM	ST-45 complex	6	C
84	FARM	ST-45 complex	6	C
1702	FARM	ST-45 complex	6	C
1727	FARM	ST-45 complex	6	C
1733	FARM	ST-45 complex	6	C
1737	FARM	ST-45 complex	6	C
1740	FARM	ST-45 complex	6	C
119	CLINICAL	ST-45 complex	7	D
1837	CLINICAL	ST-45 complex	7	D
1850	CLINICAL	ST-45 complex	7	D
82	FARM	ST-45 complex	7	D
112	FARM	ST-45 complex	7	D
405	FARM	ST-45 complex	7	D
429	FARM	ST-45 complex	7	D
1722	FARM	ST-45 complex	7	D
1723	FARM	ST-45 complex	7	D
1738	FARM	ST-45 complex	7	D
2203	CLINICAL	ST-21 complex	9	E
331	FARM	ST-21 complex	9	E
1802	FARM	ST-21 complex	9	E
1906	CLINICAL	ST-21 complex	10	-*
421	FARM	ST-21 complex	10	-*
1851	CLINICAL	ST-21 complex	11	-*

* n.d.: not determined, as the prevalence of the corresponding allele was $n < 3$