Table S2. Mutations in virulence genes

VFclass	Virulence factors	Genes	EDL933	CFSAN004176	CFSAN004177	RM13514	RM13516	10942	112648	122715	95-3192*	2015C-3125	RM8843-C1
Adherence	Curli	csgB	WT	WT	WT	WT	WT	WT	Nonsense mutation	WT	WT	WT	WT
	ECP	ecpE	WT	WT	Point deletion	WT	WT	WT	WT	WT	WT	WT	WT
	ELF	elfC	Point deletion	WT	Point deletion	WT	WT	WT	WT	WT	WT	WT	Point deletion
		elfD	WT	WT	Point deletion	WT	WT	WT	WT	WT	WT	WT	WT
		elfG	WT	WT	Point deletion	WT	WT	WT	WT	WT	Point deletion	WT	WT
	EaeH/Intimin like adhesin FdeC	eaeH	WT	WT	WT	WT	A	WT	WT	WT	WT	WT	WT
	Intimin	eae	WT	WT	WT	WT	WT	WT	WT	WT	Point deletion	WT	WT
	ToxB	toxB	WT	A	A	WT	WT	WT	WT	WT	NA	Point deletion	WT
	Type 1 fimbriae	fimB	WT	WT	WT	WT	Point deletion	WT	WT	WT	WT	WT	WT
		fimD	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	Point deletion
Autotransporter	Antigen 43	ag43	A	A	A	WT	1+0 (Point insertion)	A	WT	WT	WT	WT	Point deletion
	Cah	cah	WT	A	A	Transposon insertion	Large deletion	WT	WT	WT	WT	WT	WT
	EhaA	ehaA	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
	EhaB	ehaB	WT	WT	WT	WT	WT	Transposon insertion	WT	WT	WT	WT	WT
	EspP	espP	WT	A	A	WT	A	WT	WT	WT	A	A	WT
	UpaG adhesin	upaG/ehaG	WT	WT	WT	WT	Point insertion	WT	WT	WT	WT	WT	WT
Invasion	IbeC	ibeC	WT	WT	WT	WT	WT	WT	WT	WT	WT	1+0 (Point deletion)	WT
Iron uptake	Aerobactin siderphore	iucC	A	A	A	WT	WT	WT	WT	WT	WT	WT	WT
		iucD	A	A	A	WT	WT	WT	WT	WT	WT	WT	WT
	Salmochelin siderophore	iroB	1+0 (Nonsense mutation)	A	A	WT	WT	WT	WT	WT	WT	WT	Point deletion
LEE encoded TTSS effectors	EspF	espF	WT	WT	Point deletion	Large deletion	WT	WT	WT	WT	Point deletion	Point deletion	WT
	EspG	espG	WT	WT	Point deletion	WT	WT	WT	WT	WT	WT	WT	WT
	EspH	espH	WT	WT	Point deletion	WT	WT	WT	WT	WT	WT	WT	WT
	Tir	tir	WT	WT	Point deletion	WT	WT	WT	WT	WT	Point deletion	WT	WT
nonLEE encoded TTSS effectors	EspN	espN	Point insertion	Point deletion	Point deletion	WT	WT	WT	WT	WT	WT	Point deletion	WT
	EspV	espV	WT	WT	WT	WT	WT	1+0 (Transposon insertion)	1+0 (Nonsense mutaiton)	1+0 (Transposon insertion)	1+0 (Transposon insertion)	1+0 (Transposon insertion)	1+0 (Nonsense mutaiton)
	EspW	espW	WT	Point deletion	WT	A	A	A	A	A	A	A	A
	EspX1	espX1	WT	Point deletion	Point deletion	WT	WT	WT	WT	WT	WT	WT	WT
	EspX4	espX4	WT	Nonsense mutation	Nonsense mutation	WT	WT	WT	WT	WT	WT	Point deletion	WT
	EspX7	espX7	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
	EspY4	espY4	WT	A	A	WT	WT	WT	WT	WT	WT	WT	WT
	EspY5	espY5	WT	A	A	Nonsense mutation	WT	Nonsense mutation	Nonsense mutation	Nonsense mutation	Nonsense mutation	Nonsense mutation	Nonsense mutation
	NleC	nleC	WT	WT	WT	Large deletion	WT	WT	WT	WT	WT	WT	WT
	NleG2-3	nleG2-3	WT	WT	WT	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)
Secretion systems	ACE T6SS	tssF	WT	WT	WT	WT	WT	WT	WT	WT	Point deletion	WT	WT
		aec32	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
	TTSS	cesL	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
		escL	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
		escN	WT	WT	Point deletion	WT	WT	WT	WT	WT	WT	WT	WT
		escR	WT	WT	WT	WT	WT	WT	WT	WT	WT	Point deletion	Point deletion
		escU	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
		glrR	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
Toxin	Enterohemolysin	hlyB	WT	WT	WT	WT	WT	WT	WT	WT	WT	A	Point deletion
		hlyC	WT	WT	WT	WT	WT	WT	WT	WT	A	Point deletion	WT

WT: wild-type; A: absence; NA: not available

When both WT and mutated loci are present, 1 represents WT, while 0 represents loss-of-function mutations.

Point insertion or deletion: insertion or deletion of a single base within the coding sequence; Large insertion or deletion: insertion or deletion of a oligonucleotide within the coding region.

RM8988-C1	RM8995-C1	RM11626-C1	RM12275-C1	RM12522-C8	RM9154-C1	RM9467-C1	RM9872-C1	RM9873-C1	RM10425-C1	RM12367-C1
WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	WT	WT	WT	Point deletion	WT	WT	WT	WT
WT	Point deletion	WT	Point deletion	WT	WT	WT	WT	WT	WT	Point deletion
WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	Point deletion
WT	Point deletion	WT	Point deletion	WT	WT	WT	WT	Point deletion	WT	WT
WT	WT	WT	Point deletion	WT	WT	WT	WT	WT	WT	WT
WT	Point deletion	Point deletion	Point deletion	Point deletion	WT	Point deletion	Point deletion	Point deletion	WT	Point deletion
WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	A	WT	A	WT	WT	WT	WT	WT
WT	WT	WT	A	WT	Point deletion	WT	WT	Point deletion	WT	WT
WT	WT	WT	Point deletion	WT	IS3 insertion	WT	WT	WT	WT	WT
WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	Point deletion	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	WT	WT	A	IS3 insertion	IS3 insertion	IS3 insertion	IS3 insertion	IS3 insertion
WT	WT	IS629 insertion	WT	IS629 insertion	A	WT	WT	WT	WT	WT
WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
WT	Point deletion	WT	Point deletion	WT	WT	WT	WT	WT	WT	WT
WT	Point deletion	WT	Point deletion	Point deletion	Point deletion	WT	WT	WT	A	Point deletion
1+0 (Nonsense mutaiton)	1+0 (Nonsense mutation)	1+0 (Nonsense mutation)	1+0 (Nonsense mutation)	1 + 0 (Nonsense mutaiton)	1+0 (Transposon insertion)	1+0 (Transposon insertion)	1+0 (Transposon insertion)	1+0 (Transposon insertion)	1+0 (Transposon insertion)	1+0 (Transposon insertion)
A	A	A	A	A	A	A	A	A	A	A
WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
Point deletion	Point deletion	WT	Point deletion	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	Point deletion	Point deletion	WT	WT	WT	Point deletion	A	Point deletion
WT	WT	WT	Point deletion	WT	WT	WT	WT	WT	WT	WT
Nonsense mutation	Nonsense mutation	0 (Nonsense mutation)	0 (Nonsense mutation)	0 (Nonsense mutation)	Nonsense mutation	Nonsense mutation	Nonsense mutation	Nonsense mutation	Nonsense mutation	Nonsense mutation
Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)	Point deletions (2) and insertion (1)
WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	Point deletion	WT	WT	WT	WT	WT	WT	WT
WT	Point deletion	WT	WT	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	WT	WT	WT	WT	WT	Point deletion	WT	WT
WT	WT	WT	Point deletion	Point deletion	WT	WT	WT	WT	Point deletion	WT
WT	Point deletion	WT	WT	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	WT	WT	WT	WT	WT	Point deletion	WT	WT
WT	WT	WT	Point deletion	WT	WT	WT	WT	WT	WT	WT
WT	WT	WT	WT	WT	WT	WT	Point deletion	WT	WT	WT