

Table 1. RS218-derived bacterial strains used in this study

Bacterial strain	Characteristics	Antibiotics added to culture medium	Reference
RS218	K1 O18 H7	strep	(Huang <i>et al.</i> 1995; Silver <i>et al.</i> 1980)
RS218 Δ cnf1	K1, cnf1 gene deletion	strep, chl	(Yu and Kim 2010)
RS218 Δ ompA	K1, ompA gene deletion	strep, chl	(Teng <i>et al.</i> 2006)
nRS218 Δ fimH	K1, fimH gene deletion	strep, chl	(Teng <i>et al.</i> 2005)
RS218 Δ ibeA	K1, ibeA gene deletion	strep, kan	(Maruvada and Kim 2012)
E44 Δ neuDB	K1, neuDB gene deletion	rif, chl	(Kim <i>et al.</i> 2003)

strep, streptomycin; chl, chloramphenicol; kan, kanamycin; rif, rifampicin.

References

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- Kim KJ, Elliott SJ, Di Cello F *et al.* The K1 capsule modulates trafficking of E. coli-containing vacuoles and enhances intracellular bacterial survival in human brain microvascular endothelial cells. *Cell Microbiol* 2003;**5**:245-52.
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- Silver RP, Aaronson W, Sutton A *et al.* Comparative analysis of plasmids and some metabolic characteristics of Escherichia coli K1 from diseased and healthy individuals. *Infect Immun* 1980;**29**:200-6.
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- Teng CH, Xie Y, Shin S *et al.* Effects of ompA deletion on expression of type 1 fimbriae in Escherichia coli K1 strain RS218 and on the association of E. coli with human brain microvascular endothelial cells. *Infect Immun* 2006;**74**:5609-16.
- Yu H, Kim KS. Ferredoxin is involved in secretion of cytotoxic necrotizing factor 1 across the cytoplasmic membrane in Escherichia coli K1. *Infect Immun* 2010;**78**:838-44.

Table 2. PCR Primers used in this study

Target-gene	forward-primer	reverse-primer
ompA	GAGTACGCGATCACTCCTG A	GCAACTACTGGAGCTGCTT C
cnf1 (1)	CGCAGTTTCAGTGATGGTG A	TCGCCAAACCAGGTATAGC A
cnf2 (2)	ATGAAGCCCCGGTTGAAGT A	TCCCCGTCCTTTAAGCACAT
ibeA	TTCGGTTGTTTTGGCGGAAT	TGCCTGTTCAAGCATTGCAT
fimH	TGCCATAACGATTACCCGG A	CAGCTTTAATCGCCACTCC C
neuDB	TGGTTCTGGGTCGGTTGTAA	GCATTAACACCGGCCTCTT T
Chloramphenicol resistance- cassette	AGGGATTGGCTGAGACGAA A	GGTGAGCTGGTGATATGGG A
Kanamycin resistance- cassette	GTGACGACTGAATCCGGTG A	AGCGATCGCGTATTTCGTCT