

SUPPLEMENTARY MATERIAL

Table S1. Bacterial strains and plasmids used in this study

Strain or Plasmid	Genotype or description	Reference
Strains		
E2348/69	wild type O127:H6 EPEC strain, produces α_1 bundlin	(3)
UMD901	E2348/69 <i>bfpA</i> C129S: does not make BFP	(23)
O119:H6	wild type EPEC strain, produces α_3 bundlin	
BL21(AI) <i>slyD</i>	F ⁻ <i>ompT hsdS_B (r_B⁻ m_B⁻) gal dcm araB::T7RNAP-tetA slyD::cat</i>	(15)
Plasmids		
pRPA100	α_1 <i>bfpA</i> under control of PerA, Amp ^r	(1)
pXLW15	β_6 <i>bfpA</i> under control of PerA, Amp ^r	(8)
pXLW16	β_2 <i>bfpA</i> under control of PerA, Amp ^r	(8)
pXLW17	β_3 <i>bfpA</i> under control of PerA, Amp ^r	(8)
pPF401	Expression vector for soluble α_1 bundlin under control of T7 promoter, Kan ^r	(15)
pPF402	Expression vector for soluble β_6 bundlin under control of T7 promoter, Kan ^r	(8)
pRMH1	pRPA100 137GENNI → SPDST	
pRMH2	pRPA100 149 DQA → TSTN	
pRMH3	pRPA100 S58N, D61N, T63N	
pRMH4	pRPA100 N97A and A101N	
pRMH5	pRPA100 Y75A	
pRMH6	pRPA100 Y75S	
pRMH7	pRPA100 Y75T	
pRMH8	pRPA100 Y75F	
pRMH9	pRPA100 G137S	
pRMH10	pRPA100 I141T	
pRMH11	pXLW16 TPAST → GENNI	
pRMH12	pXLW17 TPAST → GENNI	
pRMH13	pXLW15 SPDST → GENNI	
pRMH1exp	pPF401 137GENNI → SPDST	

SUPPLEMENTARY MATERIAL

Table S2. Sense oligonucleotide primers used to introduce mutations in *bfpA*.

Mutations Introduced	Primer Name	Primer Sequence (mutated codons in bold)
G137S, E138P, N139D, N140S, I141T	RMH1	5' gttaatatcctct agcccagatagc actacatcatttggtaat
D149T, Q150S, A151T, Insert N152	RMH2	5' ggtaatagcgt acttcgggtaac gctaaatcgact
S58N, D61N, T63N	RMH3	5' accagttata aat ggatt gaact caa aac attttacttaac
N97A, A101N	RMH4	5' ccagcag cca ataacac ctc atttggttactat
Y75A	RMH5	5' gcaattccggataat gcc aaagatacaaca aac
Y75F	RMH6	5' gcaattccggataat ttc aaagatacaaca aac
Y75S	RMH7	5' gcaattccggataat tcc aaagatacaaca aac
Y75T	RMH8	5' gcaattccggataat acca aaagatacaaca aac
G137S	RMH9	5' gttaatatcctct agcccagatagc attacatcatttggtaat
I141T	RMH10	5' gttaatatcctctggcccagatag ca ctacatcatttggtaat
SPDST → GENNI	RMH11	5' tacggtgtaatatcagtg ggcgaaaataatatt acttcatttaacttcagcc