Supplemental Table 1: Deletion mutants used in this study

Strain	Deleted	Gene function	Phenotype	
	gene			
EDL933∆ <i>stx</i> 2	stx2B	Stx2 B-subunit	Stx2-deficient	
86-24∆ <i>st</i> x2		production		
EDL933∆N	Ν	Regulates most	Phage not produced; Stx2-	
		933W genes	deficient	
EDL933∆ <i>int</i>	int	Regulates prophage	Stx2 and phage produced,	
		excision	prophage not excised	
EDL933∆escN	escN	Encodes type 3	No type 3 secretion	
		ATPase		

Supplemental Table 2: Scoring criteria for colon epithelial necrosis and neutrophil infiltrate

Lesion	Score =0	Score=1	Score=2	Score =3
Colon epithelial	None	Occasional	Many surface	Most to all surface
necrosis or		surface cells	cells affected	cells, lesion extends
apoptosis				into glands
Neutrophil infiltrate	None	Occasional	Scattered	Many clusters or
		PMNs	PMNs with at	widespread
			least several	infiltration in most of
			clusters	the field

Supplemental Table 3: Splenic necrosis in mice infected with EDL933 or non-pathogenic *E. coli* 

Infection group	Ν	Normal	Necrosis	Necrosis
			present	severe
Uninfected	6	6	0	0
Non-pathogenic E.	7	7	0	0
coli				
EDL933	72	12	55	5