

**Table S1. Strains and plasmids used in this study.**

Strain	Description	Reference
EHEC 86-24 (wild-type)	<i>E. coli</i> O157:H7 clinical isolate	(1)
<i>rpsMp_Cm::LacZ</i>	EHEC strain with engineered unique housekeeping gene. Chloramphenicol resistance gene driven by the <i>rpsM</i> promoter and cloned into the <i>Lac</i> locus	(2)
<i>B. theta</i> otaomicron VPI-5482	Human commensal strain	ATCC 29148
Bt(P <sub>BtF1E6</sub> -GFP)	GFP-expressing <i>B. theta</i>	(3)
<i>E. faecalis</i> V583	Human blood isolate	(4)
<i>E. coli</i> HS	Human commensal strain	(5)
Plasmid	Description	Reference
pDP151	Constitutive mCherry expression. (for EHEC)	(6)
pTRKH3-ermGFP	GFP expression under control of erythromycin ribosomal methylase promoter (for <i>E. faecalis</i> )	(7)
pd2EGFP	Constitutive d2EGFP expression (for <i>E. coli</i> HS)	Clontech

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