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

| Strain                  | Description                                                                                           | Reference |
|------------------------|--------------------------------------------------------------------------------------------------------|-----------|
| EHEC 86-24 (wild-type) | *E. coli* O157:H7 clinical isolate                                                                      | (1)       |
| *rpsMp_Cm::LacZ*       | EHEC strain with engineered unique housekeeping gene. Chloramphenicol resistance gene driven by the *rpsM* promoter and cloned into the *Lac* locus | (2)       |
| *B. thetaiotaomicron* VPI-5482 | Human commensal strain                                                                                       | ATCC 29148|
| Bt*(P*BfP1E6-GFP)*    | GFP-expressing *B. theta*                                                                                   | (3)       |
| *E. faecalis* V583    | Human blood isolate                                                                                       | (4)       |
| *E. coli* HS          | Human commensal strain                                                                                     | (5)       |
| pDP151                 | Constitutive mCherry expression. (for EHEC)                                                               | (6)       |
| pTRKH3-ermGFP          | GFP expression under control of erythromycin ribosomal methylase promoter (for *E. faecalis*)             | (7)       |
| pd2EGFP                | Constitutive d2EGFP expression (for *E. coli* HS)                                                         | Clontech  |

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