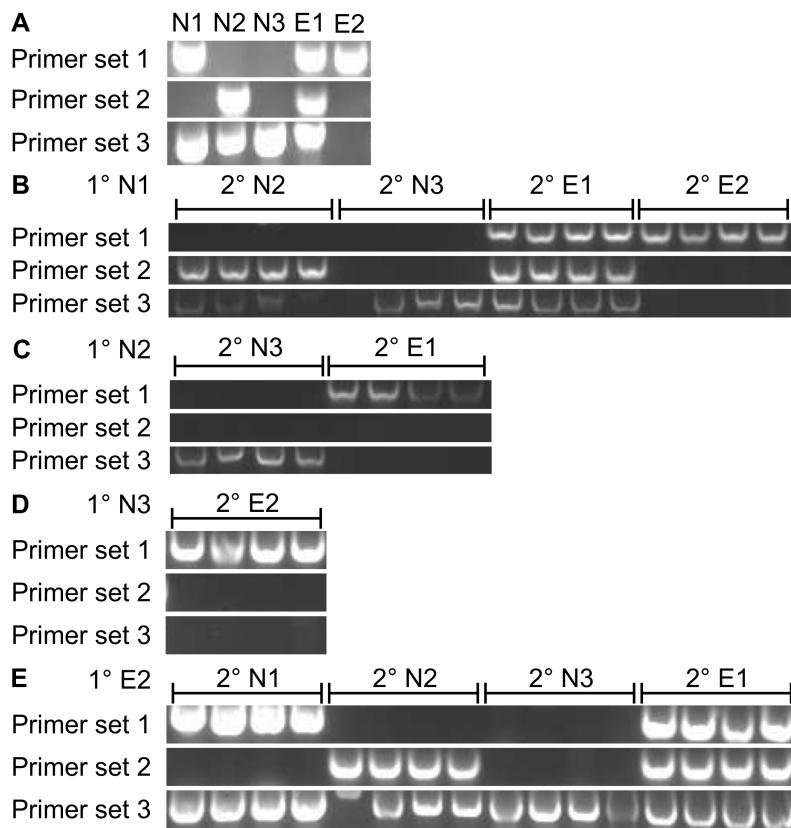


Appendix Table of Contents

Appendix Figure S1. Successful secondary challenge strain identities are confirmed via colony PCR	2
Appendix Figure S2. T6S has no effect on either primary colonization of N2 or secondary challenge strain one-day post-secondary challenge	3
Appendix Figure S3. BSAP-1 has no effect on N2 colonization resistance against N1	5
Appendix Table S1. Strain names, abbreviations and inherent antibiotic resistances	6
Appendix Table S2. Primers	7



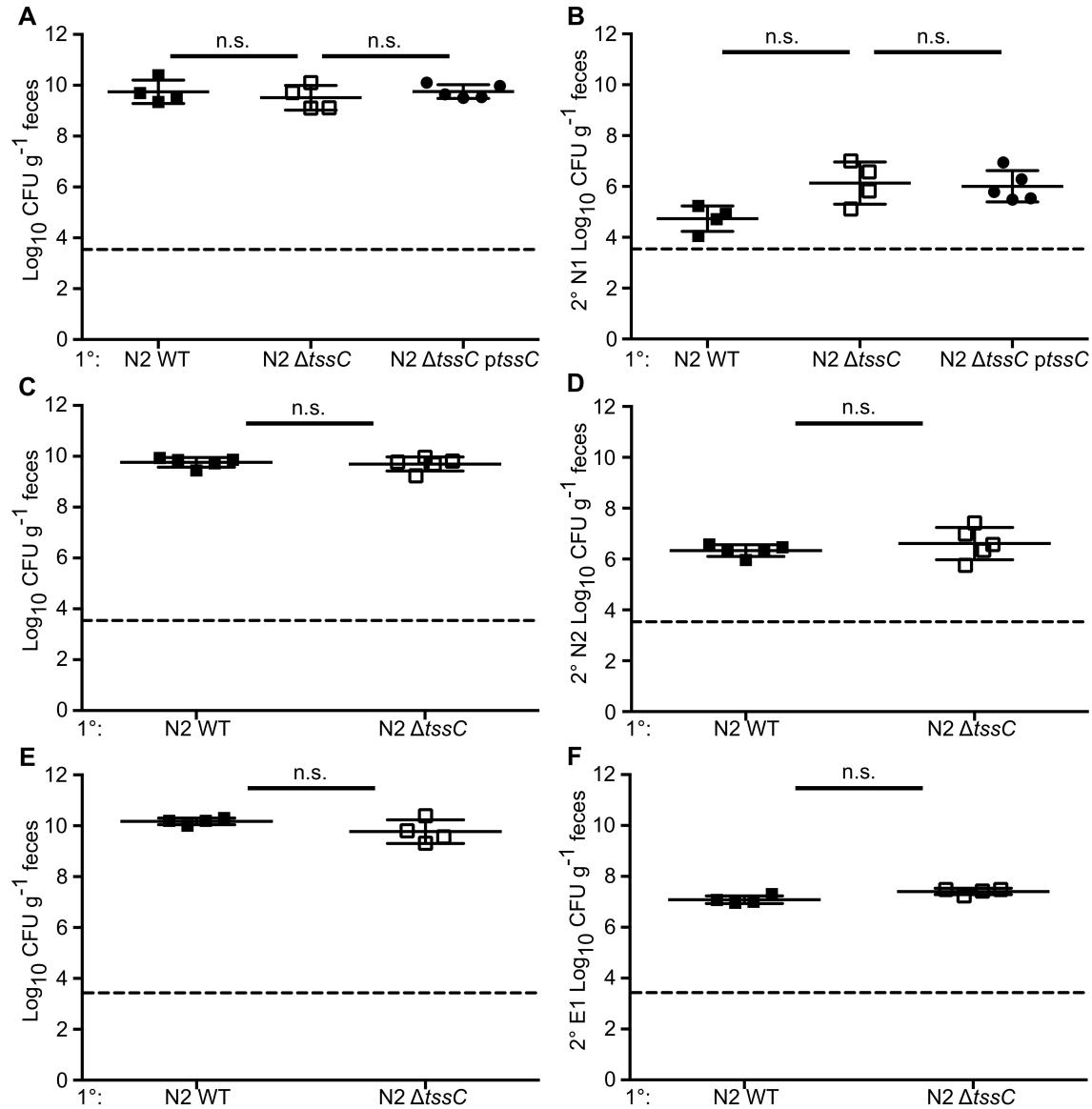
Appendix Figure S1.

Successful secondary challenge strain identities are confirmed via colony PCR.

A. Colony PCR with three primer sets to distinguish the strains was performed on the five *B. fragilis* strains in this study.

B-E. Colony PCR was performed on the successful secondary challenge strains four weeks post-challenge.

Data information: Each column of lanes represents a colony from each mouse in the indicated groups (n=4).

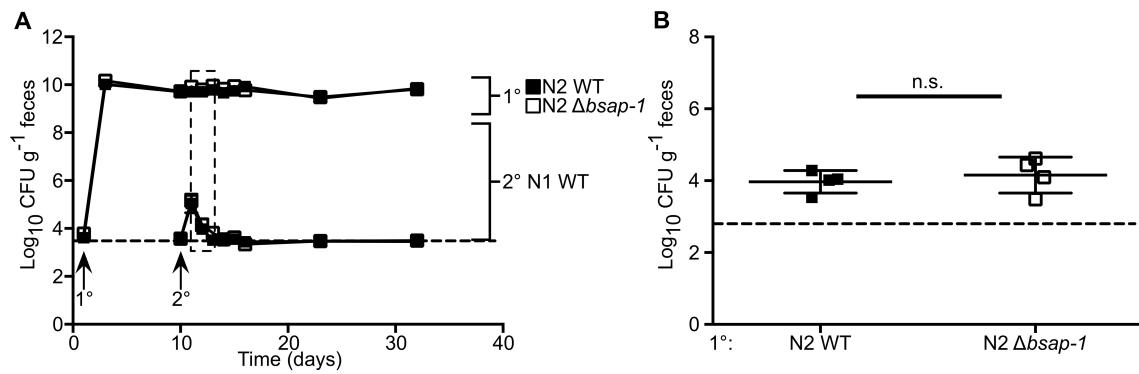


Appendix Figure S2.

T6S has no effect on either primary colonization of N2 or secondary challenge strain one-day post-secondary challenge.

A-F. Primary colonization of SPF mice with N2 WT, T6SS mutant ($\Delta tssC$) and complemented ($\Delta tssC$ pTssC) followed by secondary challenge with N1 WT (A and B; n=5 mice) N2 WT (C and D; n=5) or E1 WT (E and F; n=4) was performed. Fecal CFU for primary (A, C and E) and secondary strains (B, D and F) was determined one-day post-secondary challenge.

Data information: Results are representative of three independent experiments. Error bars: mean \pm SD. A dashed line denotes limit of detection. n.s., not significant. Statistical significance was determined by unpaired, parametric, two-tailed Student's *t*-test (C-F) or one-way ANOVA, Tukey's multiple comparisons test (A and B).



Appendix Figure S3.

BSAP-1 has no effect on N2 colonization resistance against N1.

A and B. Fecal CFU was determined after primary colonization with N2 WT or N2 *bsap-1* mutant ($\Delta bsap-1$) followed by secondary challenge with N1 WT for four weeks-post secondary challenge (A; n=4 mice per group). Secondary challenge fecal CFU was compared two days post-challenge between N2 WT and $\Delta bsap-1$ groups (B). A dashed line denotes limit of detection.

Data information: Results representative of two independent experiments. Error bars: mean \pm SEM (A), mean \pm SD (B). n.s., not significant. Statistical significance was determined by unpaired, parametric, two-tailed Student's t-test.

Appendix Table S1. Strain names, abbreviations and inherent antibiotic resistances.

Strain abbreviation	Reference name	Tetracycline	Rifampicin	Chloramphenicol
N1	NCTC 9343 ATCC 25285	Sensitive	Sensitive	Sensitive
N2	TM4000 638R	Sensitive	Resistant	Sensitive
N3	YCH46	Resistant	Sensitive	Sensitive
E1	ATCC 43858	Sensitive	Sensitive	Sensitive
E2	ATCC 43859	Resistant	Sensitive	Sensitive
<i>B. thetaiotaomicron</i>	ATCC 29148	-	Sensitive	Sensitive
<i>B. vulgatus</i>	ATCC 8482	-	Sensitive	Sensitive

Appendix Table S2. Primers.

Purpose	Direction	Sequence
Generation of pAH1	F	ATAGCGTCTAGATTTCTGGGCATACTGCGTT
	R	ATAGCGTCAGACATCTACACCAAAATTGCACA
Validate pAH1	F	CGCGGTGGCGGCCGCT
	R	AAGGAGCAATTAAATTAAATAG
Generation of pAH2	F	GCGGCCGCGAATTGATAACAGCCGGTG
	R	GCGGCCGCCGCTCCCCGACCGATGAT
Generation of pAH2-CAT	F	GGTACCAAAGATCTGAAAGAGAGACAATG
	R	GGTACCCGAATTCTGCCATTCATCCG
TssC mutant construct	US F	GGTACCGGTATCGTCCACCGTAGTG
	US R	AGACAATAAGAACTATGGAAGATCAGGCGTAATAAGAAT AAAAATATG
	DS F	CATATTTATTCTTATTACGCCTGATCTCCATAGTTCTTA TTGTCT
	DS R	GGTACCTCTGTAGTCTGTATTAAACAAAT
Bsap-1 mutant construct	US F	GGATCCATAAGGAGTTGAAAGATATGAATC
	US R	ATAATTCAAGAGGTTATGGTCTGAATAGCATTAGTAAAA GTCCAA
	DS F	TTGGACTTTACTAATGCTATTGACACCATAACCTCTTGA AATTAT
	DS R	GGATCCAAAAGATTGCCACAGCAATG
Bte2 mutant construct	US F	GGATCCTGCATCAACTGAAGAGAATG
	US R	TAAGAGAATGTTATGACCTTCGTATCTTCATCTTCT CATT
	DS F	AAAATGAGAAGATGAAAGATGACGAAAGGTATAAACAT TCTCTTA
	DS R	GGTACCCCTTGTATCTGTTGAAAGCT
Generation of pTssC	US F	GGTACCCCTTTTATATTAATATGAATTAAAT
	US R	TAAAACCCTAAAGTTAACAAAATGGAAGATAATAAA AATAAGTCTG
	DS F	CAGACTTATTTATTATCTCCATTTGTTAAACTTTA AGGGTTTA
	DS R	GGTACCTTACGCCTGTTGTAATTGTA
Generation of pBTI2a	US F	GGTACCCCTTTTATATTAATATGAATTAAAT
	US R	AGAGAATGTTATGACCTTCATTTGTTAAACTTTAAG GGTTTA
	DS F	TAAAACCCTAAAGTTAACAAAATGAAAGGTATAAAA CATTCTCT
	DS R	GGTACCTTATTGCTTTCAGCCTTTTC

Appendix Table S2. Continued.

Purpose	Direction	Sequence
<i>B. fragilis</i> genotyping primers	Set 1 F	CCTAGATTGAATCATATTCTATAC
	Set 1 R	AATCTCAAACCTGGAAAGGCTG
	Set 2 F	GAGTGCAGTAGTTTGATAGT
	Set 2 R	CAAGCGACTGCTCCAAAAGC
	Set 3 F	ACGCCCTATTAAAGTGATTATT
	Set 3 R	TCAGCCCTGCTCTCCGATT
BFT qRT-PCR	F	AAGGGCTGGATGGCTTACT
	R	GGGATACATCAGCTGGGTTG
16S qRT-PCR	F	CAGTCTTGAGTACAGTAGAGGTGG
	R	GTGGACTACCAGGGTATCTAATCC