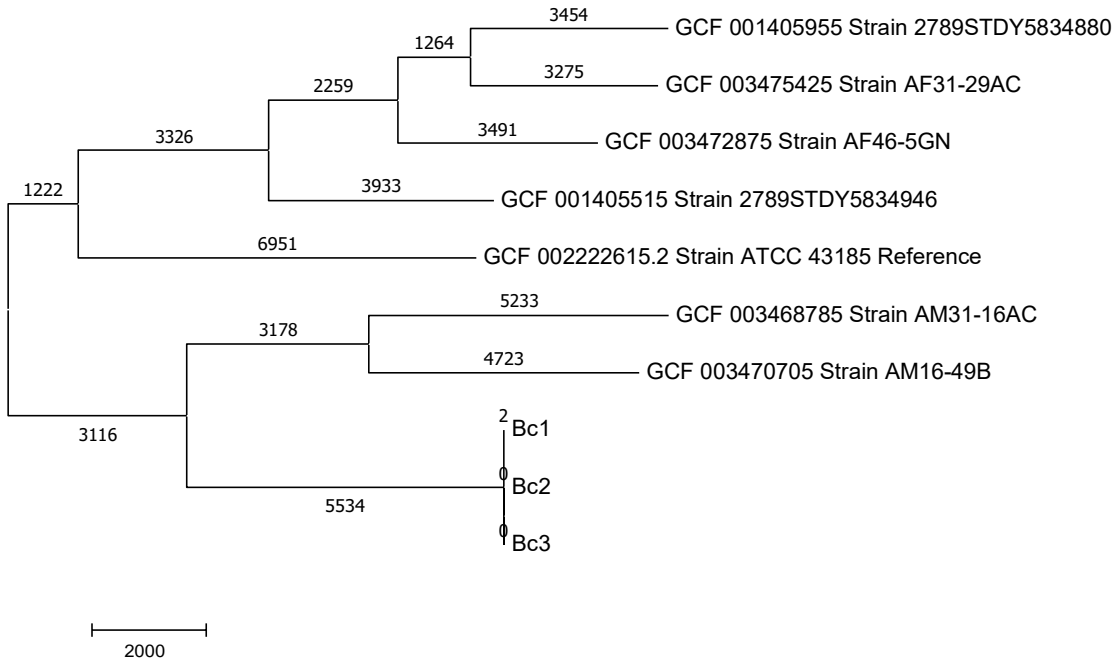


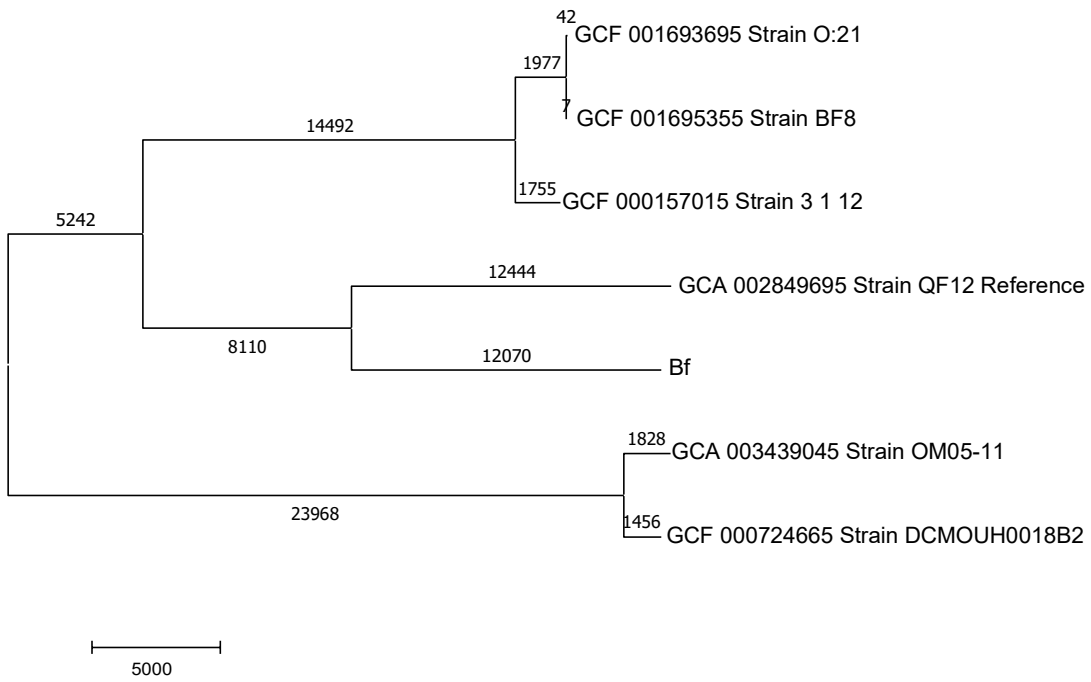
Table S1. Bacterial isolates and their codes used in this study. Data from the whole genome sequencing (WGS) using MiSeq.

Isolate	Code	Genome size (Mb)	GC content (%)	Number of contigs	Number of contigs >500
<i>Parabacteroides distasonis</i> 1	Pd1	5.0	45.1	98	65
<i>Parabacteroides distasonis</i> 2	Pd2	5.0	45.1	89	65
<i>Parabacteroides distasonis</i> 3	Pd3	5.0	45.1	142	107
<i>Parabacteroides distasonis</i> 4	Pd4	5.0	45.1	120	94
<i>Parabacteroides distasonis</i> 5	Pd5	5.0	45.1	223	197
<i>Parabacteroides distasonis</i> 6	Pd6	5.0	45.1	812	721
<i>Bacteroides caccae</i> 1	Bc1	5.2	42.7	88	69
<i>Bacteroides caccae</i> 2	Bc2	5.2	42.7	83	64
<i>Bacteroides caccae</i> 3	Bc3	5.2	42.7	81	69
<i>Bacteroides fragilis</i>	Bf	5.4	43.4	126	58
<i>Bacteroides intestinalis</i> 1	Bi1	6.0	42.7	94	78
<i>Bacteroides intestinalis</i> 2	Bi2	6.0	42.6	4138	3005
<i>Bacteroides intestinalis</i> 3	Bi3	6.0	42.7	88	77
<i>Bacteroides uniformis</i>	Bu	4.7	46.5	154	130
<i>Bacteroides vulgatus</i> 1	Bv1	5.2	42.3	335	310
<i>Bacteroides vulgatus</i> 2	Bv2	4.4	43.4	2057	1813
<i>Bacteroides vulgatus</i> 3	Bv3	5.2	42.3	138	113
<i>Bacteroides vulgatus</i> 4	Bv4	5.2	42.3	159	112
<i>Bacteroides vulgatus</i> 5	Bv5	5.2	42.3	216	119
<i>Bacteroides ovatus</i> 1	Bo1	6.9	41.9	506	98
<i>Bacteroides ovatus</i> 2	Bo2	6.9	42.0	286	91
<i>Bacteroides ovatus</i> 3	Bo3	6.9	41.9	241	98
<i>Bacteroides ovatus</i> 4	Bo4	6.9	41.9	212	139
<i>Bacteroides ovatus</i> 5	Bo5	6.9	41.9	186	98
<i>Bacteroides ovatus</i> 6	Bo6	6.9	42.0	157	97
<i>Bacteroides ovatus</i> 7	Bo7	6.9	42.0	466	292
<i>Bacteroides ovatus</i> 8	Bo8	6.9	42.0	196	102
<i>Bacteroides ovatus</i> 9	Bo9	6.9	41.9	317	95

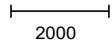
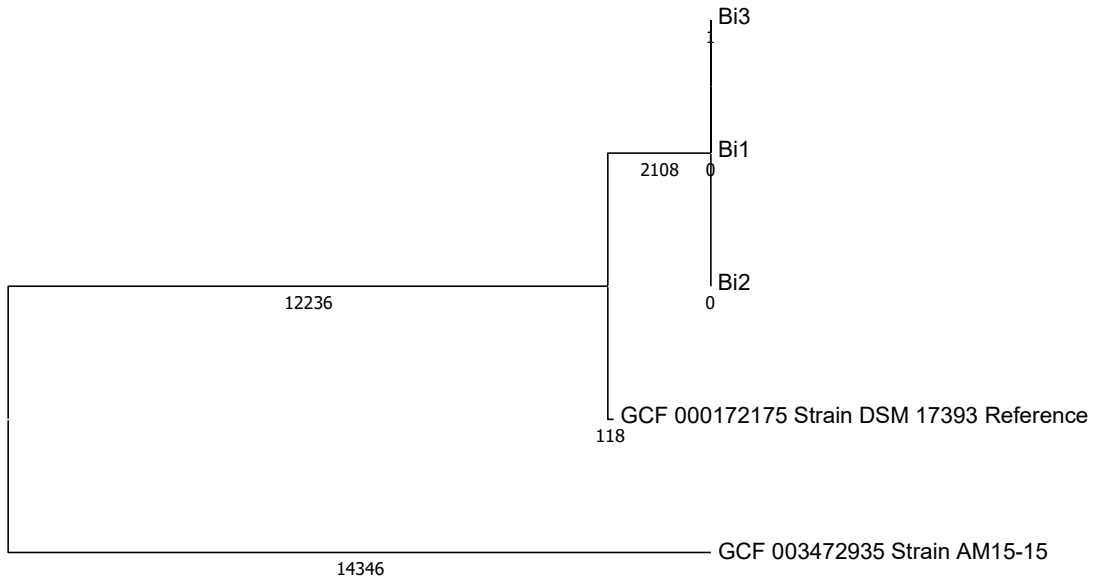
A.



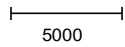
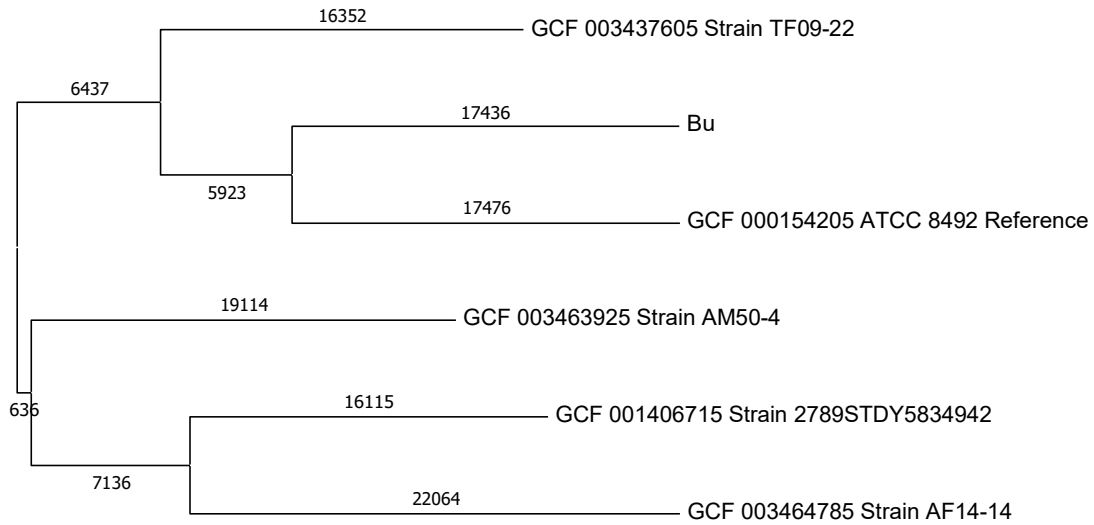
B.



C.



D.



E.

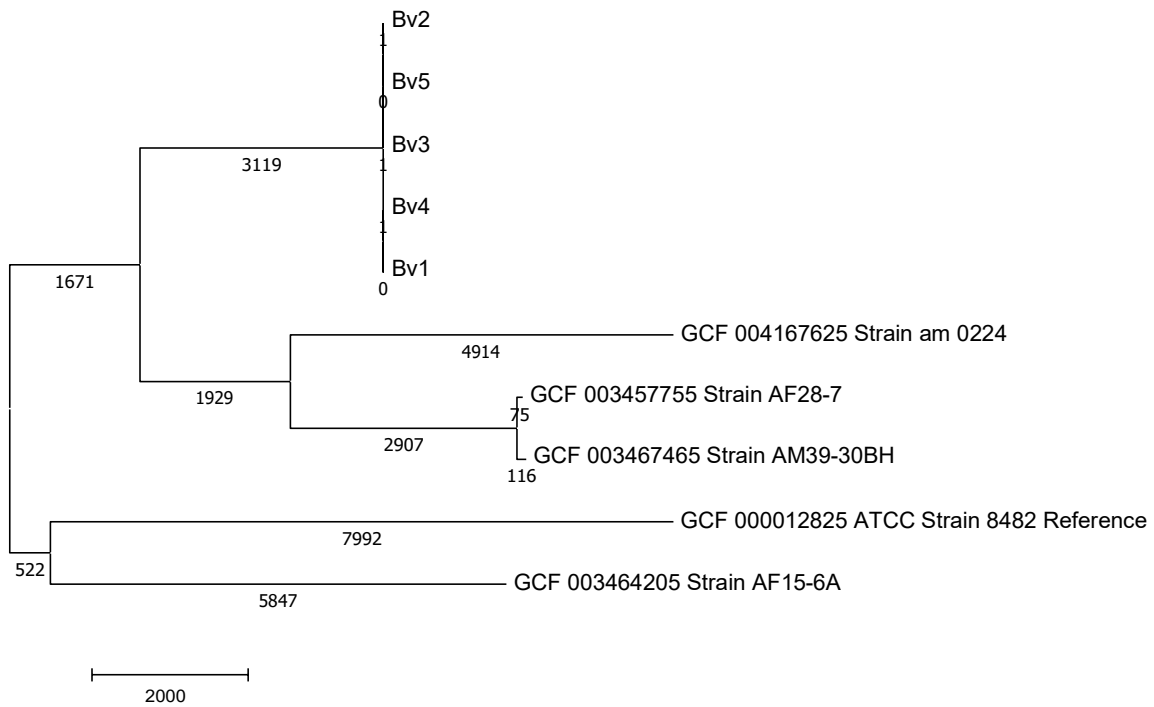


Figure S1. Estimates of evolutionary divergence by WGST (number of SNP differences per sequence) between the isolates belonging to the same species and previously published genomes (NCBI database). Bc = *B. caccae* (A), Bf = *B. fragilis* (B), Bi = *B. intestinalis* (C), Bu = *B. uniformis* (D), Bv = *B. vulgatus* (E). Numbers 1-9 refer to certain isolate. Figures for *P. distasonis* and *B. ovatus* are presented in the text

