Table S1: Representative strains information

Strains	Assembly	GenBank	Accession Number	Strain	Genome size
Avibacterium_paragallinarum	ASM1176560v1	GCA_011765605.1	NZ_CP050316.1	ESV-135	2.5 Mb
Blautia_producta	ASM1066920v1	GCA_010669205.1	NZ_CP048626.1	JCM 1471	6.2 Mb
Clostridium_butyricum	ASM188687v1	GCA_001886875.1	NZ_CP013239.1	CDC_51208	4.6 Mb
Proteus_mirabilis	ASM6996v1	GCA_000069965.1	NC_010554.1	HI4320	4.1 Mb
Adlercreutzia_mucosicola	ASM42262v1	GCA_000422625.1	NZ_KE383895.1	AUGK01	3 Mb
Ligilactobacillus_murinus	ASM328811v1	GCA_003288115.1	NZ_CP023565.1	CR147	2.3 Mb
Eggerthellaceae_bacterium	UHGG_MGYG-HGUT-02442	GCA_902387185.1	NZ_CABMLF010000001.1	/	3.9 Mb
Adlercreutzia_caecimuris	Ente_caec_B7_V1	GCA_000403355.2	NZ_KE159646.1	B7	3 Mb
Muribaculaceae_bacterium	Strain_X	GCA_951635545.1	OX620685.1	Strain_X	3.6 Mb