Supplementary table 5 - *B.bifidum* HMOs and mucin degradation genes

Gene	Function	Publication
lnbB	HMO degradation	Biosidase, a Critical Enzyme for the Degradation of Human Milk Oligosaccharides with a Type 1 Structure. *Applied and Environmental Microbiology* **74**, 3996-4004 (2008).
afcB, AfcA		Two distinct α-l-fucosidases from Bifidobacterium bifidum are essential for the utilization of fucosylated milk oligosaccharides and glycoconjugates. *Glycobiology* **19**, 1010-1017 (2009)
BbhI, BbgIII		Cooperation of β-galactosidase and β-N-acetylhexosaminidase from bifidobacteria in assimilation of human milk oligosaccharides with type 2 structure. *Glycobiology* **20**, 1402-1409 (2010)
Siabb2		Extracellular Sialidase Enhances Adhesion to the Mucosal Surface and Supports Carbohydrate Assimilation. *mBio* **8**, e00928-00917 (2017).
BBPR_0193,	Mucin degradation genes	Genome analysis of Bifidobacterium bifidum PRL2010 reveals metabolic pathways for host-derived glycan foraging. Proc Natl Acad Sci U S A 107, 19514-19519 (2010)
BBPR_1360		
BBPR_1793		
BBPR_0482		
BBPR_0264		
BBPR_1514		
BBPR_1018		