

Table S7. Glycosyl hydrolases of the *B. longum* subsp. *infantis* ATCC15697 genome

COG	Enzyme	CAZy family	Locus	Description	Pfam evidence
COG0296	EC:2.4.1.18	GH13	Blon_1761	1,4-alpha-glucan branching enzyme	Isoamylase(PF02298)/Alpha amylase (PF00128)
COG0366	EC:2.4.1.7	GH13	Blon_0128	Sucrose phosphorylase	Alpha amylase (PF00128)
COG0366	-	GH13	Blon_1636	Alpha amylase (neopullanase)	Alpha amylase (PF00128)
COG0366	-	GH13	Blon_0137	Alpha amylase (1,4 glucosidase)	Alpha amylase (PF00128)
COG0366	EC:3.2.1.10	GH13	Blon_2453	Alpha amylase (oligo-1,6-glucosidase)	Alpha amylase (PF00128)
COG0366	-	GH13	Blon_0282	Alpha amylase	Alpha amylase (PF00128)
COG0383	-	GH38	Blon_0868	alpha-mannosidase	Glycosyl hydrolases family 38 (PF01074)
COG0383	-	GH38	Blon_0869	alpha-mannosidase	Glycosyl hydrolases family 38 (PF01074)
COG1472	EC:3.2.1.21	GH3	Blon_0625	Beta-glucosidase	Glycosyl hydrolase family 3 (PF00933/PF01915)
COG1472	-	GH3	Blon_1843	possible beta-hexosaminidase	Glycosyl hydrolase family 3 (PF00933)
COG1523	-	GH13	Blon_1740	glycogen debranching enzyme (pullanase)	Isoamylase(PF02298); Alpha amylase (PF00128)
COG1523	-	GH13	Blon_2243	glycogen debranching enzyme	Alpha amylase (PF00128)
COG1621	-	GH32	Blon_0787	beta-fructofuranosidase/sucrase (possible inulinase)	Glycosyl hydrolases family 32 (PF00251)
COG1621	-	GH32	Blon_2056	beta-fructofuranosidase/sucrase (possible inulinase)	Glycosyl hydrolases family 32 (PF00251)
COG1874	-	GH42	Blon_0346	Beta-galactosidase	Beta-galactosidase (PF02449)
COG1874	EC:3.2.1.23	GH42	Blon_2016	Beta-galactosidase	Beta-galactosidase (PF02449); GH35 (PF01301)
COG1874	EC:3.2.1.23	GH42	Blon_2123	Beta-galactosidase	Beta-galactosidase (PF02449); cellulase (PF00150)
COG1874	EC:3.2.1.23	GH42	Blon_2416	Beta-galactosidase	Beta-galactosidase (PF02449); GH14 (PF01373)
COG2723	EC:3.2.1.21	GH1	Blon_1905	Beta-glucosidase	Glycosyl hydrolase family 1 (PF00232)
COG2730	EC:3.2.1.58	GH5	Blon_0621	Glucan 1,3-beta-glucosidase	Cellulase (PF00150)
COG3345	EC:3.2.1.22	GH36	Blon_2460	alpha-galactosidase	Melibiase (PF02065)
COG3507	-	GH43	Blon_2411	glycoside hydrolase, family 43	Glycosyl hydrolases family 43 (PF4616)
COG3525	-	GH20	Blon_0732	Possible beta-hexosaminidase A	Glycosyl hydrolase family 20 (PF00728; PF02838)
COG3525	-	GH20	Blon_2355	Possible beta-hexosaminidase A	Glycosyl hydrolase family 20 (PF00728; PF02838)
COG3525	-	GH20	Blon_0459	Possible beta-hexosaminidase A	Glycosyl hydrolase family 20 (PF00728; PF02838)
COG3534	-	GH51	Blon_1989	alpha-L-arabinofuranosidase A-like	Alpha-L-arabinofuranosidase (PF06964); NADH dehydrogenase (PF00346)
COG3669	EC:3.2.1.51	GH29	Blon_0248	Alpha-L-fucosidase	Alpha-L-fucosidase (PF01120)
COG3669	EC:3.2.1.51	GH29	Blon_0426	Alpha-L-fucosidase	Alpha-L-fucosidase (PF01120)
COG3669	-	GH29	Blon_2336	Putative alpha-1,3/4-fucosidase	Alpha-L-fucosidase (PF01120)
COG3867	-	GH53	Blon_0440	Arabinogalactan endo-1,4-beta-galactosidase	No GH Pfam ¹
COG4409	-	GH33	Blon_0646	glycosyl hydrolase, BNR repeat-containing protein	bacterial neuraminidase repeat (PF02012)
COG4409	EC:3.2.1.18	GH33	Blon_2348	Exo-alpha-sialidase	bacterial neuraminidase repeat (PF02012)
COG1640	EC:2.4.1.25	GH77	Blon_0139	4-alpha-glucanotransferase	4-alpha-glucanotransferase (PF02446)
COG1640	EC:2.4.1.25	GH77	Blon_2246	4-alpha-glucanotransferase	4-alpha-glucanotransferase (PF02446)
COG3250	-	GH2	Blon_0268	glycoside hydrolase family 2, sugar binding	Glycosyl hydrolases family 2 (PF02837; PF02836; PF00703)
COG3250	-	GH2	Blon_1894 ²	Putative beta-galactosidase	Glycosyl hydrolases family 2 (PF02836)
COG3250	EC:3.2.1.23	GH2	Blon_2334	glycoside hydrolase family 2, TIM barrel	Glycosyl hydrolases family 2 (PF02837; PF02929; PF02836; PF02930; PF00703)

¹PF07532 Bacterial Ig-like domain (cell surface)²Possible gene fragment