

Supporting information:

Table S1 – Sequence analysis of GH94 enzymes

Protein name	Locus tag	Organism / Strain	GenBank	Length (amino acids)	EC
Non-characterized, fragment	BLA_0623	<i>Bifidobacterium animalis</i> subsp. <i>lactis</i> AD011	ACL28916.1	334	
Non-characterized, fragment	BIF_01489	<i>Bifidobacterium animalis</i> subsp. <i>lactis</i> Bb12	ADC84810.1	334	
Non-characterized, fragment	Balac_1421	<i>Bifidobacterium animalis</i> subsp. <i>lactis</i> BI-04 BI-04; ATCC SD5219	ACS46770.1	299	
Non-characterized, fragment	BLC1_1378	<i>Bifidobacterium animalis</i> subsp. <i>lactis</i> BLC1	AEN77148.1	312	
Non-characterized, fragment	BALAC2494_01318	<i>Bifidobacterium animalis</i> subsp. <i>lactis</i> CNCM I-2494	AEK30890.1	278	
Non-characterized, fragment	Balat_1421	<i>Bifidobacterium animalis</i> subsp. <i>lactis</i> DSM 10140	ACS48337.1	299	
Non-characterized, fragment	BalV_1377	<i>Bifidobacterium animalis</i> subsp. <i>lactis</i> V9	ADG33965.1	299	
Non-characterized, fragment	BDP_2127	<i>Bifidobacterium dentium</i> Bd1	ADB10686.1	834	
Cellobiose phosphorylase		<i>Cellulomonas uda</i> DSM 20108	AAQ20920.1	822	2.4.1.20
Cellodextrin-phosphorylase		<i>Clostridium stercorarium</i> DSM8532	AAC45511.1	780	2.4.1.49
Cellobiose-phosphorylase		<i>Clostridium stercorarium</i> NCIB 11754	AAC45510.1	811	2.4.1.20
Cellodextrin-phosphorylase	Cthe_2989	<i>Clostridium thermocellum</i> ATCC 27405	ABN54185.1	984	2.4.1.49
Cellobiose phosphorylase	Cthe_0275	<i>Clostridium thermocellum</i> ATCC 27405	ABN51514.1	811	2.4.1.20
Cellobiose phosphorylase 94B	Sde_0906	<i>Saccharophagus degradans</i> 2-40	ABD80168.1	788	2.4.1.20
Cellobiose phosphorylase 94A	Sde_1318	<i>Saccharophagus degradans</i> 2-40	ABD80580.1	811	2.4.1.20
Cellobiose-phosphorylase	TM_1848	<i>Thermotoga maritima</i> MSB8	AAD36910.1	813	2.4.1.20
Chitobiose phosphorylase		<i>Vibrio proteolyticus</i>	BAC87867.1	801	2.4.1.-
Cellobiose phosphorylase		<i>Cellvibrio gilvus</i> ATCC13127	BAA28631.1	822	2.4.1.20