Table S4. Summary of glycoside hydrolases encoded within scaffolds reconstructed from sequenced fosmids selected from functional genomic screens.

Scaffold	GH2	GH3	GH5	GH6	GH8	GH9	GH10	GH16	GH26	GH27	GH43	GH94	*susD*	*tonB*	Phylo. Binning	C	X
Sc7						1									Bacteria	+	-
Sc30			1									1^{CBM_X}		1	Bacteria	+	-
Sc36			1												δ-Proteobacteria	+	-
Sc41				1											Clostridia	+	-
Sc52			1												Lachnospiraceae	+	-
Sc65			1					1^{CBM4}							Lachnospiraceae	+	-
Sc75			1												Lachnospiraceae	+	-
Sc47			1						2	1					Bacteroidales	+	-
Sc106			1									1^{CBM_X}			Bacteroidales	+	-
Sc77							1								Bacteroidales	+	-
Sc58			1						1				1	1	Bacteroidales	+	-
Sc17			1						1	2		1^{CBM_X}	1	1	Bacteroidales	+	-
Sc100	1		2						1			1^{CBM_X}	1	1	Bacteroidales	+	-
Sc104			1						1	1		1^{CBM_X}	1	1	Bacteroidales	+	+
Sc78	1		2						1	1		1^{CBM_X}	1	1	Bacteroidales	+	+
Sc57							1				1		1	1	Bacteroidales	-	+
Sc8							1^{CBM6}				1^{CBM6}				Bacteroidales	-	+
Sc73							1				1				Bacteroidales	-	+

C Cellulose degrading activity detected using carboxymethyl cellulose as a substrate. **X** Xylan degrading activity detected using birchwood xylan as a substrate.

Carbohydrate binding modules (CBMs) are indicated in superscript text.