

**Table S1 Summary of the characteristics of selected fosmid/plasmid clones from the bovine rumen (R) metagenome library that contain genes encoding glycosyl hydrolases.**

<b>Fosmid/ plasmid designation</b>	<b>Source</b>	<b>Screened substrate</b>	<b>Vector</b>	<b>Size (bp)</b>	<b>G+C average (%)</b>	<b>N° ORFs</b>	<b>N° GH</b>
r_01	Cow rumen	pNP $\alpha$ Gal	pCC1FOS	34609	53,78	27	2
r_02	Cow rumen	pNP $\alpha$ Af	pCC1FOS	26383	50,89	25	2
r_03	Cow rumen	pNP $\alpha$ Af	pCC1FOS	19873	62,86	10	2
r_05	Cow rumen	CMC	pUC19	4638	51,53	4	1
r_06	Cow rumen	CMC	pUC19	5805	44,60	4	1
r_07	Cow rumen	pNP $\alpha$ R	pUC19	4176	63,27	2	2
r_08	Cow rumen	pNP $\alpha$ R	pUC19	4145	63,86	2	1
r_09	Cow rumen	pNP $\alpha$ Af	pUC19	3264	60,69	3	3