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Supporting information for article:

Biochemical and structural investigation of two paralogous glycoside hydrolases from *Zobellia galactanivorans*: novel insights into the evolution, dimerization plasticity and catalytic mechanism of the GH117 family

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Table S1 List of NCBI GI accession numbers for the enzymes included in the phylogenetic analysis.

Protein	GI accession number	Organism
ZG4663	503761909	<i>Zobellia galactanivorans</i>
Cycma_4110	503788104	<i>Cyclobacterium marinum</i>
ADICYQ_2851	527060044	<i>Cyclobacterium qasimii</i>
FdGH117	522021817	<i>Flexithrix dorotheae</i>
KLA_08930	503385328	<i>Cellulophaga lytica</i>
CbGH117	657642340	<i>Cellulophaga baltica</i>
Celal_2522	503316620	<i>Cellulophaga algicola</i>
BN863_21600	537742229	<i>Formosa agariphila</i> KMM 3901
DtGH117	647326240	<i>Dyadobacter tibetensis</i>
FB2170_15408	503072751	<i>Maribacter</i> sp. HTCC2170
GFO_1720	500028880	<i>Gramella forsetii</i>
RRSWK_03394	496389516	<i>Rhodopirellula</i> sp. SWK7
RSSM_03637	495956549	<i>Rhodopirellula sallentina</i>
FbS85GH117-1	497819807	<i>Flavobacteriaceae</i> bacterium S85
MS110	14518315	<i>Microscilla</i> sp. PRE1
BP1671	198275506	<i>Bacteroides plebeius</i> DSM 17135
Patl_1968	109898285	<i>Pseudoalteromonas atlantica</i> T6c
Sde_2657	90022302	<i>Saccharophagus degradans</i> 2-40
Caka_0372	294053909	<i>Coralimargarita akajimensis</i> DSM 45221
PSMK_25510	381387894	<i>Phycisphaera mikurensis</i> NBRC 102666
POTG_02958	496517393	<i>Paenibacillus</i> sp. oral taxon 786
POTG_02762	496517198	<i>Paenibacillus</i> sp. oral taxon 786
SCO3481	21221905	<i>Streptomyces coelicolor</i> A3(2)
RSAG_01951	253579721	<i>Ruminococcus</i> sp. 5_1_39B_FAA
HMPREF0240_02413	496291678	<i>Clostridiales</i>
Epulo_08883	168335142	<i>Epulopiscium</i> sp. 'N.t. morphotype B'
Epulo_05534	168334409	<i>Epulopiscium</i> sp. 'N.t. morphotype B'
Patl_0812	109897139	<i>Pseudoalteromonas atlantica</i> T6c
Epulo_00864	168333382	<i>Epulopiscium</i> sp. 'N.t. morphotype B'
ZG185	503757495	<i>Zobellia galactanivorans</i>
RspSWK7GH117	496386898	<i>Rhodopirellula</i> sp. SWK7
RB13146	32477897	<i>Rhodopirellula baltica</i> SH 1
RbGH117	494567023	<i>Rhodopirellula baltica</i>
RE6C_00582	495929090	<i>Rhodopirellula europaea</i>
RESH_02145	495941472	<i>Rhodopirellula europaea</i>
RSSM_03578	495956371	<i>Rhodopirellula sallentina</i>
RMSM_03448	495973477	<i>Rhodopirellula maiorica</i>
RRSWK_05487	496393269	<i>Rhodopirellula</i> sp. SWK7
GLIP_0472	496118431	<i>Glaciecola lipolytica</i>

GjGH117-1	516016142	<i>Gayadomonas joobiniege</i>
RRSWK_05156	496392832	<i>Rhodopirellula</i> sp. SWK7
GjGH117-2	516016027	<i>Gayadomonas joobiniege</i>
RRSWK_05155	496392830	<i>Rhodopirellula</i> sp. SWK7
ADICYQ_4928	527059977	<i>Cyclobacterium qasimii</i>
Fyae2049	261868872	<i>Flammeovirga yaeyamensis</i>
ZG3615	503760867	<i>Zobellia galactanivorans</i>
RSSM_05243	495960959	<i>Rhodopirellula sallentina</i>
RRSWK_00733	496385116	<i>Rhodopirellula</i> sp. SWK7
EpGH117-1	517286372	<i>Echinicola pacifica</i>
LpGH117	648540386	<i>Lewinella persica</i>
CfGH117	653275351	<i>Cytophaga fermentans</i>
JmGH117	495890752	<i>Joostella marina</i>
BN863_21340	537742203	<i>Formosa agariphila</i> KMM 3901
CbGH117-2	657645343	<i>Cellulophaga baltica</i>
ClGH117	503385359	<i>Cellulophaga lytica</i>
CbGH117-3	646943668	<i>Cellulophaga baltica</i>
Celal_2475	503316574	<i>Cellulophaga algicola</i>
FbS85GH117-2	497820528	<i>Flavobacteriaceae</i> bacterium S85
ZG205	503757515	<i>Zobellia galactanivorans</i>
BN863_21120	537742181	<i>Formosa agariphila</i> KMM 3901
FbS85GH117-3	497822238	<i>Flavobacteriaceae</i> bacterium S85
FdGH117-2	522018982	<i>Flexithrix dorotheae</i>
FbHQM9GH117	498206138	<i>Flavobacteriaceae</i> bacterium HQM9
AaGH117	497868238	<i>Aquimarina agarilytica</i>
FbS85GH117-4	497820417	<i>Flavobacteriaceae</i> bacterium S85
RRSWK_06352	496394888	<i>Rhodopirellula</i> sp. SWK7
CfGH117-2	653273516	<i>Cytophaga fermentans</i>
Uvs078	37222127	uncultured bacterium
DS2_08972	584425490	<i>Catenovulum agarivorans</i> DS-2
CaGH117	515520634	<i>Catenovulum agarivorans</i>
GjGH117-3	516016350	<i>Gayadomonas joobiniege</i>
RRSWK_03393	496389515	<i>Rhodopirellula</i> sp. SWK7
ZG3597	503760849	<i>Zobellia galactanivorans</i>
EpGH117-2	517284647	<i>Echinicola pacifica</i>
CbGH117-4	657642375	<i>Cellulophaga baltica</i>
BN863_21230	537742192	<i>Formosa agariphila</i> KMM 3901
FbS85GH117-5	497820596	<i>Flavobacteriaceae</i> bacterium S85
RSSM_00801	495950027	<i>Rhodopirellula sallentina</i>
LNTAR_17733	494487261	<i>Lentisphaera araneosa</i>
