

Table T1. List of the 32 X-ray structures used in this study.

GH family	PDB code	res ^a	source
GH19	3cql	1.50	<i>Carica papaya</i>
	2baa	1.80	<i>Hordeum vulgare</i>
	2dkv	2.00	<i>Oryza sativa</i>
	1qxj	1.80	<i>Jack bean</i>
	1z37	1.53	<i>Brassica juncea</i>
	2cjl	1.50	<i>Streptomyces coelicolor</i>
	1wvv	2.00	<i>Streptomyces griseus</i>
	3hbe	1.55	<i>Picea abies</i>
GH22c	1iee	0.94	<i>Gallus gallus</i>
	2ihl	1.40	<i>Coturnix coturnix jap</i>
	135l	1.30	<i>Meleagris gallopavo</i>
	1hhl	1.90	<i>Numida meleagris</i>
	1ghl	2.10	<i>Phasianus colchicus</i>
	2gv0	1.90	<i>Pelodiscus sinensis</i>
	1lmq	1.60	<i>Oncorhynchus mykiss</i>
	1lzs	1.60	<i>Homo sapiens</i>
	2z2f	1.50	<i>Bos taurus</i>
	1qqy	1.85	<i>Canis familiaris</i>
	2goi	2.30	<i>Mus musculus</i>
	2fbd	1.90	<i>Musca domestica</i>
	1jug	1.90	<i>Tachyglossus aculeatus</i>
	2eql	2.50	<i>Equus caballus</i>
1iiz	2.40	<i>Antheraea mylitta</i>	
3cb7	1.90	<i>Musca domestica</i>	
GH22i	2dqa	1.60	<i>Tapes japonica</i>
GH23	153l	1.60	<i>Anser anser anser</i>
	3gxr	1.70	<i>Gadus morhua</i>
GH24v	2lzm	1.70	<i>Enterobacteria phage T4</i>
	2anx	1.04	<i>Enterobacteria phage p22</i>
GH24l	1am7	2.30	<i>Enterobacteria phage lambda</i>
GH46	1qgi	1.60	<i>Bacillus circulans</i>
	1chk	2.40	<i>Streptomyces sp. n174</i>

^a x-ray solution