S1 Table. Tertiary structure predictions of ChiA N-terminal subdomains.

ChiA domain	Protein Name	Organism	Function	Sequence identity	PDB code	Ref	Prediction server
N1	RsgI2	*Clostridium thermocellum*	Putative cellulosomal family 3 carbohydrate binding module	16%	4B9P	[1]	Phyre2/Robetta
N1	ScaA	*Acetivibrio Cellulolyticus*	Family 3B carbohydrate binding module – binds strongly to cellulose	21%	3ZQW	[2]	Phyre2
N1	CipC	*Clostridium cellulolyticum*	Family 3A carbohydrate binding module – binds strongly to cellulose	20%	1G43	[3]	Phyre2
N1	Endo-glucanase D	*Clostridium cellulovorans*	C-terminal carbohydrate binding module	17%	3NDY	N/A	Phyre2
N1	Chi18aC	*Streptomyces coelicolor*	Chitinase chitin binding domain	18%	2RTT	N/A	Phyre2
N1	RsgI3	*Clostridium thermocellum*	Putative cellulosomal family 3 carbohydrate binding module	14%	4B97	[1]	Phyre2
N1	CBDcex	*Cellulomonas fimi*	Cellulose carbohydrate binding module	19%	1EXH	[4]	Phyre2
N2	RG-lyase	*Aspergillus aculeatus*	Rhamnogalacturonan lyase fibronectin type III domain	19%	1NKG	[5]	Phyre2
N2	CbhA	*Clostridium thermocellum*	Cellobiohydrolase A fibronectin type III domain	16%	3PE9/ 3PDG	[6]	Phyre2
N2	Tenascin	*Chicken*	Tandem fibronectin type III domains	12%	1QR4	[7]	Robetta
N3	ChiA	*Autographa californica nuclear polyhedrosis virus*	N-terminal chitinase domain – chitin binding	15%	5DF0	N/A	Phyre2

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