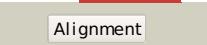
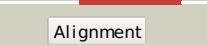


# Phyre<sup>2</sup>

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Description	P75995
Date	Wed Jan 25 15:21:04 GMT 2012
Unique Job ID	d5f7e2f3a2abf142

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3pjwA_			100.0	18	<b>PDB header:</b> lyase <b>Chain:</b> A; <b>PDB Molecule:</b> cyclic dimeric gmp binding protein; <b>PDBTitle:</b> structure of pseudomonas fluorescence lapd ggdef-eal dual domain, i23
2	c3gfbB_			100.0	21	<b>PDB header:</b> hydrolase, signaling protein <b>Chain:</b> B; <b>PDB Molecule:</b> klebsiella pneumoniae blrp1; <b>PDBTitle:</b> klebsiella pneumoniae blrp1 ph 6 manganese/cy-digmp complex
3	c3hvbB_			100.0	22	<b>PDB header:</b> hydrolase <b>Chain:</b> B; <b>PDB Molecule:</b> protein fimx; <b>PDBTitle:</b> crystal structure of the dual-domain ggdef-eal module of fimx from pseudomonas aeruginosa
4	c3hv9A_			100.0	22	<b>PDB header:</b> hydrolase <b>Chain:</b> A; <b>PDB Molecule:</b> protein fimx; <b>PDBTitle:</b> crystal structure of fimx eal domain from pseudomonas aeruginosa
5	c3s83A_			100.0	32	<b>PDB header:</b> signaling protein <b>Chain:</b> A; <b>PDB Molecule:</b> ggdef family protein; <b>PDBTitle:</b> crystal structure of eal domain from caulobacter crescentus cb15
6	c3pfmA_			100.0	25	<b>PDB header:</b> signaling protein <b>Chain:</b> A; <b>PDB Molecule:</b> ggdef domain protein; <b>PDBTitle:</b> crystal structure of a eal domain of ggdef domain protein from2 pseudomonas fluorescens pf
7	c2w27A_			100.0	24	<b>PDB header:</b> signaling protein <b>Chain:</b> A; <b>PDB Molecule:</b> ykui protein; <b>PDBTitle:</b> crystal structure of the bacillus subtilis ykui protein,2 with an eal domain, in complex with substrate c-di-gmp and3 calcium
8	c2r6oB_			100.0	31	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> B; <b>PDB Molecule:</b> putative diguanylate cyclase/phosphodiesterase (ggdef & eal) <b>PDBTitle:</b> crystal structure of putative diguanylate cyclase/phosphodiesterase2 from thiobacillus denitrificans
9	d2basal			100.0	22	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> EAL domain-like <b>Family:</b> EAL domain
10	c3kzpA_			100.0	18	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A; <b>PDB Molecule:</b> putative diguanylate cyclase/phosphodiesterase; <b>PDBTitle:</b> crystal structure of putative diguanylate cyclase/phosphodiesterase2 from listeria monocytogenes
11	c1w25B_			99.7	7	<b>PDB header:</b> signaling protein <b>Chain:</b> B; <b>PDB Molecule:</b> stalked-cell differentiation controlling protein; <b>PDBTitle:</b> response regulator pled in complex with c-digmp

12	<a href="#">c3ezuA</a>			99.5	8	<b>PDB header:</b> signaling protein <b>Chain:</b> A: <b>PDB Molecule:</b> ggdef domain protein; <b>PDBTitle:</b> crystal structure of multidomain protein of unknown function with2 ggdef-domain (np_951600.1) from <i>geobacter sulfurreducens</i> at 1.95 a3 resolution
13	<a href="#">c3breA</a>			99.4	7	<b>PDB header:</b> signaling protein <b>Chain:</b> A: <b>PDB Molecule:</b> probable two-component response regulator; <b>PDBTitle:</b> crystal structure of <i>p.aeruginosa</i> pa3702
14	<a href="#">c3i5cA</a>			99.2	9	<b>PDB header:</b> signaling protein <b>Chain:</b> A: <b>PDB Molecule:</b> fusion of general control protein gcn4 and wspr response <b>PDBTitle:</b> crystal structure of a fusion protein containing the leucine zipper of2 gcn4 and the ggdef domain of wspr from <i>pseudomonas aeruginosa</i>
15	<a href="#">d1w25a3</a>			99.2	6	<b>Fold:</b> Ferredoxin-like <b>Superfamily:</b> Nucleotide cyclase <b>Family:</b> GGDEF domain
16	<a href="#">c3icIA</a>			99.2	6	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> eal/ggdef domain protein; <b>PDBTitle:</b> x-ray structure of protein (eal/ggdef domain protein) from2 <i>m.capsulatus</i> , northeast structural genomics consortium3 target mcr174c
17	<a href="#">c3ignA</a>			99.2	4	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> diguanylate cyclase; <b>PDBTitle:</b> crystal structure of the ggdef domain from <i>marinobacter2 aquaeolei</i> diguanylate cyclase complexed with c-di-gmp -3 northeast structural genomics consortium target mqr89a
18	<a href="#">c3i5aA</a>			99.2	8	<b>PDB header:</b> signaling protein <b>Chain:</b> A: <b>PDB Molecule:</b> response regulator/ggdef domain protein; <b>PDBTitle:</b> crystal structure of full-length wpsr from <i>pseudomonas syringae</i>
19	<a href="#">c3i5bA</a>			99.2	9	<b>PDB header:</b> signaling protein <b>Chain:</b> A: <b>PDB Molecule:</b> wpsr response regulator; <b>PDBTitle:</b> crystal structure of the isolated ggdef domain of wpsr from2 <i>pseudomonas aeruginosa</i>
20	<a href="#">c3mtkA</a>			99.1	6	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> diguanylate cyclase/phosphodiesterase; <b>PDBTitle:</b> x-ray structure of diguanylate cyclase/phosphodiesterase from2 <i>caldicellulosiruptor saccharolyticus</i> , northeast structural genomics3 consortium target clr27c
21	<a href="#">c3hvaA</a>		not modelled	99.1	10	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> protein fimx; <b>PDBTitle:</b> crystal structure of fimx ggdef domain from <i>pseudomonas2 aeruginosa</i>
22	<a href="#">c3qyyB</a>		not modelled	99.1	4	<b>PDB header:</b> signaling protein/inhibitor <b>Chain:</b> B: <b>PDB Molecule:</b> response regulator; <b>PDBTitle:</b> a novel interaction mode between a microbial ggdef domain and the bis-2 (3, 5)-cyclic di-gmp
23	<a href="#">c3hwA</a>		not modelled	98.6	14	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> diguanylate-cyclase (dgc); <b>PDBTitle:</b> crystal structure of the ggdef domain of the pa2567 protein2 from <i>pseudomonas aeruginosa</i> , northeast structural genomics3 consortium target par365c
24	<a href="#">c3khtA</a>		not modelled	95.2	12	<b>PDB header:</b> signaling protein <b>Chain:</b> A: <b>PDB Molecule:</b> response regulator; <b>PDBTitle:</b> crystal structure of response regulator from <i>hahella chejuensis</i>
25	<a href="#">d1mvoA</a>		not modelled	95.2	12	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
26	<a href="#">d1ua7a2</a>		not modelled	94.7	14	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> (Trans)glycosidases <b>Family:</b> Amylase, catalytic domain
27	<a href="#">d1p6qa</a>		not modelled	94.5	13	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
28	<a href="#">c3hebB</a>		not modelled	94.5	17	<b>PDB header:</b> transcription regulator <b>Chain:</b> B: <b>PDB Molecule:</b> response regulator receiver domain protein (chev); <b>PDBTitle:</b> crystal structure of response regulator receiver domain from2 <i>rhodospirillum rubrum</i> <b>PDB header:</b> signaling protein

29	<a href="#">c2zayA</a>	Alignment	not modelled	94.2	19	<b>Chain:</b> A: <b>PDB Molecule:</b> response regulator receiver protein; <b>PDBTitle:</b> crystal structure of response regulator from desulfuromonas2 acetoxidans
30	<a href="#">d1giwa2</a>	Alignment	not modelled	94.1	16	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> (Trans)glycosidases <b>Family:</b> Amylase, catalytic domain
31	<a href="#">d1a53a</a>	Alignment	not modelled	93.9	12	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Ribulose-phosphate binding barrel <b>Family:</b> Tryptophan biosynthesis enzymes
32	<a href="#">d1w25a1</a>	Alignment	not modelled	93.7	12	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
33	<a href="#">c2jk1A</a>	Alignment	not modelled	93.6	12	<b>PDB header:</b> dna-binding <b>Chain:</b> A: <b>PDB Molecule:</b> hydrogenase transcriptional regulatory protein hupr1; <b>PDBTitle:</b> crystal structure of the wild-type hupr receiver domain
34	<a href="#">c3edeB</a>	Alignment	not modelled	93.4	18	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> cyclomaltodextrinase; <b>PDBTitle:</b> structural base for cyclodextrin hydrolysis
35	<a href="#">d1jbea</a>	Alignment	not modelled	93.0	19	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
36	<a href="#">d1krwa</a>	Alignment	not modelled	92.9	16	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
37	<a href="#">c1qhoA</a>	Alignment	not modelled	92.6	25	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> alpha-amylase; <b>PDBTitle:</b> five-domain alpha-amylase from bacillus stearothermophilus,2 maltose/acarbose complex
38	<a href="#">c3g58A</a>	Alignment	not modelled	92.4	16	<b>PDB header:</b> isomerase <b>Chain:</b> A: <b>PDB Molecule:</b> n-acetylmannosamine-6-phosphate 2-epimerase; <b>PDBTitle:</b> structure of n-acetylmannosamine-6-phosphate epimerase from salmonella2 enterica
39	<a href="#">c2c3zA</a>	Alignment	not modelled	92.3	13	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> indole-3-glycerol phosphate synthase; <b>PDBTitle:</b> crystal structure of a truncated variant of indole-3-2-glycerol phosphate synthase from sulfolobus solfataricus
40	<a href="#">d1y0ea</a>	Alignment	not modelled	92.2	10	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Ribulose-phosphate binding barrel <b>Family:</b> NanE-like
41	<a href="#">c3gt7A</a>	Alignment	not modelled	92.1	12	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> sensor protein; <b>PDBTitle:</b> crystal structure of signal receiver domain of signal2 transduction histidine kinase from syntrophus3 aciditrophicus
42	<a href="#">c2ayxA</a>	Alignment	not modelled	92.0	17	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> sensor kinase protein rcsc; <b>PDBTitle:</b> solution structure of the e.coli rcsc c-terminus (residues2 700-949) containing linker region and phosphoreceiver3 domain
43	<a href="#">d1heyA</a>	Alignment	not modelled	92.0	20	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
44	<a href="#">c3eulB</a>	Alignment	not modelled	91.9	13	<b>PDB header:</b> transcription <b>Chain:</b> B: <b>PDB Molecule:</b> possible nitrate/nitrite response transcriptional <b>PDBTitle:</b> structure of the signal receiver domain of the putative2 response regulator narI from mycobacterium tuberculosis
45	<a href="#">c2p0oA</a>	Alignment	not modelled	91.3	17	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> hypothetical protein duf871; <b>PDBTitle:</b> crystal structure of a conserved protein from locus ef_2437 in2 enterococcus faecalis with an unknown function
46	<a href="#">c1jdaA</a>	Alignment	not modelled	91.2	14	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> 1,4-alpha maltotetrahydrolase; <b>PDBTitle:</b> maltotetraose-forming exo-amylase
47	<a href="#">c3hdgE</a>	Alignment	not modelled	91.0	16	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> E: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of the n-terminal domain of an2 uncharacterized protein (ws1339) from wolinella3 succinogenes
48	<a href="#">d1yioa2</a>	Alignment	not modelled	91.0	11	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
49	<a href="#">d1ny5a1</a>	Alignment	not modelled	91.0	15	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
50	<a href="#">c3rqia</a>	Alignment	not modelled	90.8	13	<b>PDB header:</b> transcription <b>Chain:</b> A: <b>PDB Molecule:</b> response regulator protein; <b>PDBTitle:</b> crystal structure of a response regulator protein from burkholderia2 pseudomallei with a phosphorylated aspartic acid, calcium ion and3 citrate
51	<a href="#">c1cygA</a>	Alignment	not modelled	90.8	16	<b>PDB header:</b> glycosyltransferase <b>Chain:</b> A: <b>PDB Molecule:</b> cyclodextrin glucanotransferase; <b>PDBTitle:</b> cyclodextrin glucanotransferase (e.c.2.4.1.19) (cgtae)
52	<a href="#">d1qkka</a>	Alignment	not modelled	90.7	17	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
53	<a href="#">c1jibA</a>	Alignment	not modelled	90.7	24	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> neopullulanase; <b>PDBTitle:</b> complex of alpha-amylase ii (tva ii) from thermoactinomyces2 vulgaris r-47 with maltotetraose based on a crystal soaked3 with maltohexaose.
54	<a href="#">d2guya2</a>	Alignment	not modelled	90.7	14	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> (Trans)glycosidases <b>Family:</b> Amylase, catalytic domain

55	<a href="#">c1bagA_</a>		Alignment	not modelled	90.5	14	<b>PDB header:</b> alpha-amylase <b>Chain:</b> A: <b>PDB Molecule:</b> alpha-1,4-glucan-4-glucanohydrolase; <b>PDBTitle:</b> alpha-amylase from bacillus subtilis complexed with maltopentaose
56	<a href="#">c3ucqA_</a>		Alignment	not modelled	90.5	19	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> amylosucrase; <b>PDBTitle:</b> crystal structure of amylosucrase from deinococcus geothermalis
57	<a href="#">d1h3ga3</a>		Alignment	not modelled	90.2	18	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> (Trans)glycosidases <b>Family:</b> Amylase, catalytic domain
58	<a href="#">d1zesal</a>		Alignment	not modelled	90.2	17	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
59	<a href="#">c2wcsA_</a>		Alignment	not modelled	90.1	23	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> alpha amylase, catalytic region; <b>PDBTitle:</b> crystal structure of debranching enzyme from nostoc2 punctiforme (npde)
60	<a href="#">c2h6rG_</a>		Alignment	not modelled	90.1	10	<b>PDB header:</b> isomerase <b>Chain:</b> G: <b>PDB Molecule:</b> triosephosphate isomerase; <b>PDBTitle:</b> crystal structure of triosephosphate isomerase (tim) from2 methanocaldococcus jannaschii
61	<a href="#">c1tcmB_</a>		Alignment	not modelled	90.1	14	<b>PDB header:</b> glycosyltransferase <b>Chain:</b> B: <b>PDB Molecule:</b> cyclodextrin glycosyltransferase; <b>PDBTitle:</b> cyclodextrin glycosyltransferase w616a mutant from bacillus2 circulans strain 251
62	<a href="#">c3czkA_</a>		Alignment	not modelled	90.1	20	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> sucrose hydrolase; <b>PDBTitle:</b> crystal structure analysis of sucrose hydrolase(suh) e322q-2 sucrose complex
63	<a href="#">c3gl9B_</a>		Alignment	not modelled	90.0	15	<b>PDB header:</b> signaling protein <b>Chain:</b> B: <b>PDB Molecule:</b> response regulator; <b>PDBTitle:</b> the structure of a histidine kinase-response regulator2 complex sheds light into two-component signaling and3 reveals a novel cis autophosphorylation mechanism
64	<a href="#">c3crnA_</a>		Alignment	not modelled	90.0	21	<b>PDB header:</b> signaling protein <b>Chain:</b> A: <b>PDB Molecule:</b> response regulator receiver domain protein, chey-like; <b>PDBTitle:</b> crystal structure of response regulator receiver domain protein (chey-2 like) from methanospirillum hungatei jf-1
65	<a href="#">d1k68a_</a>		Alignment	not modelled	89.8	10	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
66	<a href="#">c3nhzA_</a>		Alignment	not modelled	89.8	15	<b>PDB header:</b> dna binding protein <b>Chain:</b> A: <b>PDB Molecule:</b> two component system transcriptional regulator mtra; <b>PDBTitle:</b> structure of n-terminal domain of mtra
67	<a href="#">c1giuA_</a>		Alignment	not modelled	89.7	18	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> maltodextrin glycosyltransferase; <b>PDBTitle:</b> maltosyltransferase from thermotoga maritima
68	<a href="#">d1qhoa4</a>		Alignment	not modelled	89.7	24	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> (Trans)glycosidases <b>Family:</b> Amylase, catalytic domain
69	<a href="#">d1kgsa2</a>		Alignment	not modelled	89.7	13	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
70	<a href="#">d1lwha2</a>		Alignment	not modelled	89.7	17	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> (Trans)glycosidases <b>Family:</b> Amylase, catalytic domain
71	<a href="#">c3cg0A_</a>		Alignment	not modelled	89.7	20	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> response regulator receiver modulated diguanylate cyclase <b>PDBTitle:</b> crystal structure of signal receiver domain of modulated diguanylate2 cyclase from desulfovibrio desulfuricans g20, an example of alternate3 folding
72	<a href="#">d2r25b1</a>		Alignment	not modelled	89.6	10	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
73	<a href="#">c2rjnA_</a>		Alignment	not modelled	89.6	15	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> response regulator receiver:metal-dependent <b>PDBTitle:</b> crystal structure of an uncharacterized protein q2bku2 from2 neptuniibacter caesariensis
74	<a href="#">c3i42A_</a>		Alignment	not modelled	89.4	20	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> response regulator receiver domain protein (chey-2); <b>PDBTitle:</b> structure of response regulator receiver domain (chey-like2) from methyllobacillus flagellatus
75	<a href="#">d1ys7a2</a>		Alignment	not modelled	89.1	14	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
76	<a href="#">c2pz0B_</a>		Alignment	not modelled	89.0	9	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> glycerophosphoryl diester phosphodiesterase; <b>PDBTitle:</b> crystal structure of glycerophosphodiester phosphodiesterase (gdpd2) from t. tengcongensis
77	<a href="#">d2aaaa2</a>		Alignment	not modelled	89.0	14	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> (Trans)glycosidases <b>Family:</b> Amylase, catalytic domain
78	<a href="#">d2ayxa1</a>		Alignment	not modelled	89.0	17	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
79	<a href="#">c3bmwA_</a>		Alignment	not modelled	88.9	16	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> cyclomaltdextrin glucanotransferase; <b>PDBTitle:</b> cyclodextrin glycosyl transferase from

						thermoanerobacterium2 thermosulfurigenes em1 mutant s77p complexed with a maltoheptaose3 inhibitor
80	<a href="#">d1dz3a_</a>	Alignment	not modelled	88.7	12	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
81	<a href="#">c2zwmA_</a>	Alignment	not modelled	88.5	12	<b>PDB header:</b> transcription <b>Chain:</b> A: <b>PDB Molecule:</b> transcriptional regulatory protein yycf; <b>PDBTitle:</b> crystal structure of yycf receiver domain from bacillus2 subtilis
82	<a href="#">c3b2nA_</a>	Alignment	not modelled	88.4	13	<b>PDB header:</b> transcription <b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized protein q99uf4; <b>PDBTitle:</b> crystal structure of dna-binding response regulator, luxr family, from staphylococcus aureus
83	<a href="#">d1xhfa1</a>	Alignment	not modelled	88.4	10	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
84	<a href="#">d1g5aa2</a>	Alignment	not modelled	88.4	13	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> (Trans)glycosidases <b>Family:</b> Amylase, catalytic domain
85	<a href="#">c2qr3A_</a>	Alignment	not modelled	88.2	13	<b>PDB header:</b> transcription <b>Chain:</b> A: <b>PDB Molecule:</b> two-component system response regulator; <b>PDBTitle:</b> crystal structure of the n-terminal signal receiver domain of two-component system response regulator from bacteroides fragilis
86	<a href="#">c3hv2B_</a>	Alignment	not modelled	88.2	12	<b>PDB header:</b> signaling protein <b>Chain:</b> B: <b>PDB Molecule:</b> response regulator/hd domain protein; <b>PDBTitle:</b> crystal structure of signal receiver domain of hd domain-2 containing protein from pseudomonas fluorescens pf-5
87	<a href="#">d1a04a2</a>	Alignment	not modelled	87.7	16	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
88	<a href="#">c3k8kB_</a>	Alignment	not modelled	87.7	17	<b>PDB header:</b> membrane protein <b>Chain:</b> B: <b>PDB Molecule:</b> alpha-amylase, susg; <b>PDBTitle:</b> crystal structure of susg
89	<a href="#">d1h5ya_</a>	Alignment	not modelled	87.5	10	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Ribulose-phosphate binding barrel <b>Family:</b> Histidine biosynthesis enzymes
90	<a href="#">c3igsB_</a>	Alignment	not modelled	87.4	10	<b>PDB header:</b> isomerase <b>Chain:</b> B: <b>PDB Molecule:</b> n-acetylmannosamine-6-phosphate 2-epimerase 2; <b>PDBTitle:</b> structure of the salmonella enterica n-acetylmannosamine-6-phosphate 2-epimerase
91	<a href="#">d1i3ca_</a>	Alignment	not modelled	87.3	13	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
92	<a href="#">c3cz5B_</a>	Alignment	not modelled	87.1	12	<b>PDB header:</b> transcription regulator <b>Chain:</b> B: <b>PDB Molecule:</b> two-component response regulator, luxr family; <b>PDBTitle:</b> crystal structure of two-component response regulator, luxr family,2 from aurantimonas sp. si85-9a1
93	<a href="#">d1dbwa_</a>	Alignment	not modelled	87.1	18	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
94	<a href="#">c1jgiA_</a>	Alignment	not modelled	86.9	13	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> amyllosucrase; <b>PDBTitle:</b> crystal structure of the active site mutant glu328gln of 2 amyllosucrase from neisseria polysaccharea in complex with the natural substrate sucrose
95	<a href="#">c3a47A_</a>	Alignment	not modelled	86.7	16	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> oligo-1,6-glucosidase; <b>PDBTitle:</b> crystal structure of isomaltase from saccharomyces cerevisiae
96	<a href="#">c2ya0A_</a>	Alignment	not modelled	86.6	23	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> putative alkaline amylopullulanase; <b>PDBTitle:</b> catalytic module of the multi-modular glycogen-degrading pneumococcal virulence factor spua
97	<a href="#">c3cu5B_</a>	Alignment	not modelled	86.5	12	<b>PDB header:</b> transcription regulator <b>Chain:</b> B: <b>PDB Molecule:</b> two component transcriptional regulator, arac family; <b>PDBTitle:</b> crystal structure of a two component transcriptional regulator arac2 from clostridium phytofermentans isdg
98	<a href="#">d1k66a_</a>	Alignment	not modelled	86.5	16	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
99	<a href="#">c3dhuC_</a>	Alignment	not modelled	86.5	16	<b>PDB header:</b> hydrolase <b>Chain:</b> C: <b>PDB Molecule:</b> alpha-amylase; <b>PDBTitle:</b> crystal structure of an alpha-amylase from lactobacillus2 plantarum
100	<a href="#">d2pl1a1</a>	Alignment	not modelled	86.4	13	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
101	<a href="#">d2bhua3</a>	Alignment	not modelled	86.3	22	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> (Trans)glycosidases <b>Family:</b> Amylase, catalytic domain
102	<a href="#">c3c3mA_</a>	Alignment	not modelled	86.3	16	<b>PDB header:</b> signaling protein <b>Chain:</b> A: <b>PDB Molecule:</b> response regulator receiver protein; <b>PDBTitle:</b> crystal structure of the n-terminal domain of response regulator2 receiver protein from methanoculleus marisnigri jrl1
103	<a href="#">c2yxba_</a>	Alignment	not modelled	86.2	17	<b>PDB header:</b> isomerase <b>Chain:</b> A: <b>PDB Molecule:</b> coenzyme b12-dependent mutase; <b>PDBTitle:</b> crystal structure of the methylmalonyl-coa mutase alpha-subunit from aeropyrum pernix
						<b>PDB header:</b> dna binding protein <b>Chain:</b> C: <b>PDB Molecule:</b> dna-binding response regulator, merr

104	<a href="#">c3cnbC_</a>	Alignment	not modelled	86.2	18	family; <b>PDBTitle:</b> crystal structure of signal receiver domain of dna binding response2 regulator protein (merr) from colwellia psychrerythraea 34h
105	<a href="#">d2d3na2</a>	Alignment	not modelled	85.7	25	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> (Trans)glycosidases <b>Family:</b> Amylase, catalytic domain
106	<a href="#">c2ze0A_</a>	Alignment	not modelled	85.5	20	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> alpha-glucosidase; <b>PDBTitle:</b> alpha-glucosidase gsj
107	<a href="#">c1gviA_</a>	Alignment	not modelled	85.2	21	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> maltogenic amylase; <b>PDBTitle:</b> thermus maltogenic amylase in complex with beta-cd
108	<a href="#">d1eh9a3</a>	Alignment	not modelled	85.2	16	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> (Trans)glycosidases <b>Family:</b> Amylase, catalytic domain
109	<a href="#">d1zh2a1</a>	Alignment	not modelled	84.9	15	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
110	<a href="#">d1u0sy_</a>	Alignment	not modelled	84.9	10	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
111	<a href="#">c2iswB_</a>	Alignment	not modelled	84.8	18	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> putative fructose-1,6-bisphosphate aldolase; <b>PDBTitle:</b> structure of giardia fructose-1,6-biphosphate aldolase in2 complex with phosphoglycolohydroxamate
112	<a href="#">c3c97A_</a>	Alignment	not modelled	84.4	17	<b>PDB header:</b> signaling protein, transferase <b>Chain:</b> A: <b>PDB Molecule:</b> signal transduction histidine kinase; <b>PDBTitle:</b> crystal structure of the response regulator receiver domain2 of a signal transduction histidine kinase from aspergillus3 oryzae
113	<a href="#">d1hvxa2</a>	Alignment	not modelled	84.3	24	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> (Trans)glycosidases <b>Family:</b> Amylase, catalytic domain
114	<a href="#">c3cfyA_</a>	Alignment	not modelled	84.2	12	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> putative luxo repressor protein; <b>PDBTitle:</b> crystal structure of signal receiver domain of putative luxo2 repressor protein from vibrio parahaemolyticus
115	<a href="#">c2qpuB_</a>	Alignment	not modelled	84.0	11	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> alpha-amylase type a isozyme; <b>PDBTitle:</b> sugar tongs mutant s378p in complex with acarbose
116	<a href="#">d1w0ma_</a>	Alignment	not modelled	83.9	13	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Triosephosphate isomerase (TIM) <b>Family:</b> Triosephosphate isomerase (TIM)
117	<a href="#">c3blpX_</a>	Alignment	not modelled	83.9	10	<b>PDB header:</b> hydrolase <b>Chain:</b> X: <b>PDB Molecule:</b> alpha-amylase 1; <b>PDBTitle:</b> role of aromatic residues in human salivary alpha-amylase
118	<a href="#">d1zgza1</a>	Alignment	not modelled	83.8	13	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> CheY-like <b>Family:</b> CheY-related
119	<a href="#">c2z1kA_</a>	Alignment	not modelled	83.6	20	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> (neo)pullulanase; <b>PDBTitle:</b> crystal structure of ttha1563 from thermus thermophilus hb8
120	<a href="#">c1zjaB_</a>	Alignment	not modelled	83.6	16	<b>PDB header:</b> isomerase <b>Chain:</b> B: <b>PDB Molecule:</b> trehalulose synthase; <b>PDBTitle:</b> crystal structure of the trehalulose synthase mutb from pseudomonas mesoacidiphila mx-45 (triclinic form)