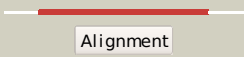

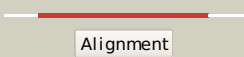

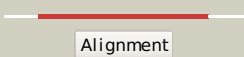

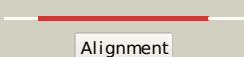

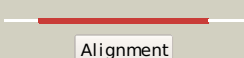

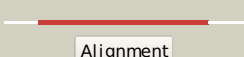

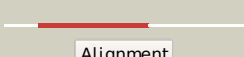

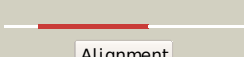

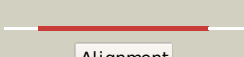

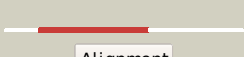





#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d2i5ia1	 Alignment		100.0	38	Fold: 7-stranded beta/alpha barrel Superfamily: Glycoside hydrolase/deacetylase Family: YdjC-like
2	c2e67D_	 Alignment		100.0	20	PDB header: structural genomics, unknown function Chain: D: PDB Molecule: hypothetical protein tthb029; PDBTitle: crystal structure of the hypothetical protein tthb029 from thermus2 thermophilus hb8
3	d2nlya1	 Alignment		97.9	11	Fold: 7-stranded beta/alpha barrel Superfamily: Glycoside hydrolase/deacetylase Family: Divergent polysaccharide deacetylase
4	c2qv5A_	 Alignment		97.4	16	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein atu2773; PDBTitle: crystal structure of uncharacterized protein atu2773 from2 agrobacterium tumefaciens c58
5	c2vyoA_	 Alignment		97.1	14	PDB header: hydrolase Chain: A: PDB Molecule: chitooligosaccharide deacetylase; PDBTitle: chitin deacetylase family member from encephalitozoon2 cuniculi
6	c2c1iA_	 Alignment		96.7	17	PDB header: hydrolase Chain: A: PDB Molecule: peptidoglycan glcnac deacetylase; PDBTitle: structure of streptococcus pneumoniae peptidoglycan2 deacetylase (sppgda) d 275 n mutant.
7	c2x5eA_	 Alignment		96.7	20	PDB header: unknown function Chain: A: PDB Molecule: upf0271 protein pa4511; PDBTitle: crystal structure of the hypothetical protein pa4511 from2 pseudomonas aeruginosa
8	d2dfa1	 Alignment		96.6	24	Fold: 7-stranded beta/alpha barrel Superfamily: Glycoside hydrolase/deacetylase Family: LamB/YcsF-like
9	d1ny1a_	 Alignment		96.6	21	Fold: 7-stranded beta/alpha barrel Superfamily: Glycoside hydrolase/deacetylase Family: NodB-like polysaccharide deacetylase
10	d1v6ta_	 Alignment		96.6	20	Fold: 7-stranded beta/alpha barrel Superfamily: Glycoside hydrolase/deacetylase Family: LamB/YcsF-like
11	d1xw8a_	 Alignment		95.7	22	Fold: 7-stranded beta/alpha barrel Superfamily: Glycoside hydrolase/deacetylase Family: LamB/YcsF-like

12	c1w17A_	Alignment		95.6	20	PDB header: hydrolase Chain: A: PDB Molecule: probable polysaccharide deacetylase pdaa; PDBTitle: structure of bacillus subtilis pdaa, a family 42 carbohydrate esterase.
13	c2w3zA_	Alignment		95.2	17	PDB header: hydrolase Chain: A: PDB Molecule: putative deacetylase; PDBTitle: structure of a streptococcus mutans ce4 esterase
14	d2c71a1	Alignment		94.6	14	Fold: 7-stranded beta/alpha barrel Superfamily: Glycoside hydrolase/deacetylase Family: NodB-like polysaccharide deacetylase
15	c3qbuD_	Alignment		86.5	16	PDB header: hydrolase Chain: D: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of putative peptidoglycan deacetylase (hp0310) from2 helicobacter pylori
16	d2c1ia1	Alignment		81.9	17	Fold: 7-stranded beta/alpha barrel Superfamily: Glycoside hydrolase/deacetylase Family: NodB-like polysaccharide deacetylase
17	dlz7aa1	Alignment		81.1	16	Fold: 7-stranded beta/alpha barrel Superfamily: Glycoside hydrolase/deacetylase Family: PA1517-like
18	d2cc0a1	Alignment		76.9	17	Fold: 7-stranded beta/alpha barrel Superfamily: Glycoside hydrolase/deacetylase Family: NodB-like polysaccharide deacetylase
19	d2iw0a1	Alignment		73.3	16	Fold: 7-stranded beta/alpha barrel Superfamily: Glycoside hydrolase/deacetylase Family: NodB-like polysaccharide deacetylase
20	c3s6oD_	Alignment		66.2	13	PDB header: hydrolase Chain: D: PDB Molecule: polysaccharide deacetylase family protein; PDBTitle: crystal structure of a polysaccharide deacetylase family protein from2 burkholderia pseudomallei
21	c2iw0A_	Alignment	not modelled	55.5	14	PDB header: hydrolase Chain: A: PDB Molecule: chitin deacetylase; PDBTitle: structure of the chitin deacetylase from the fungal2 pathogen colletotrichum lindemuthianum
22	c2zktB_	Alignment	not modelled	51.6	18	PDB header: isomerase Chain: B: PDB Molecule: 2,3-bisphosphoglycerate-independent phosphoglycerate PDBTitle: structure of ph0037 protein from pyrococcus horikoshii
23	d2jl3a1	Alignment	not modelled	47.7	23	Fold: 7-stranded beta/alpha barrel Superfamily: Glycoside hydrolase/deacetylase Family: NodB-like polysaccharide deacetylase
24	d1k1xa3	Alignment	not modelled	47.5	16	Fold: 7-stranded beta/alpha barrel Superfamily: Glycoside hydrolase/deacetylase Family: 4-alpha-glucanotransferase, N-terminal domain
25	d1dg9a_	Alignment	not modelled	37.0	12	Fold: Phosphotyrosine protein phosphatases I-like Superfamily: Phosphotyrosine protein phosphatases I Family: Low-molecular-weight phosphotyrosine protein phosphatases
26	c1i32D_	Alignment	not modelled	35.2	15	PDB header: oxidoreductase Chain: D: PDB Molecule: glyceraldehyde 3-phosphate dehydrogenase; PDBTitle: leishmania mexicana glyceraldehyde-3-phosphate2 dehydrogenase in complex with inhibitors
27	c3e2vA_	Alignment	not modelled	33.4	16	PDB header: hydrolase Chain: A: PDB Molecule: 3'-5'-exonuclease; PDBTitle: crystal structure of an uncharacterized amidohydrolase from2 saccharomyces cerevisiae
28	c3gk7A_	Alignment	not modelled	32.4	17	PDB header: transferase Chain: A: PDB Molecule: 4-hydroxybutyrate coa-transferase; PDBTitle: crystal structure of 4-hydroxybutyrate coa-transferase from2 clostridium aminobutyricum
						PDB header: hydrolase

29	c3ipwA	Alignment	not modelled	28.7	18	Chain: A: PDB Molecule: hydrolase tatd family protein; PDBTitle: crystal structure of hydrolase tatd family protein from entamoeba2 histolytica
30	c2i09A	Alignment	not modelled	28.4	29	PDB header: isomerase Chain: A: PDB Molecule: phosphopentomutase; PDBTitle: crystal structure of putative phosphopentomutase from streptococcus2 mutans
31	c3dnfB	Alignment	not modelled	22.0	17	PDB header: oxidoreductase Chain: B: PDB Molecule: 4-hydroxy-3-methylbut-2-enyl diphosphate reductase; PDBTitle: structure of (e)-4-hydroxy-3-methyl-but-2-enyl diphosphate reductase,2 the terminal enzyme of the non-mevalonate pathway
32	c1bx2A	Alignment	not modelled	21.4	16	PDB header: transferase Chain: A: PDB Molecule: dhps, dihydropteroate synthase; PDBTitle: dihydropteroate synthetase, with bound inhibitor manic, from bacillus2 anthracis
33	d1bx2a	Alignment	not modelled	21.4	16	Fold: TIM beta/alpha-barrel Superfamily: Dihydropteroate synthetase-like Family: Dihydropteroate synthetase
34	d3eeqa1	Alignment	not modelled	19.9	18	Fold: CobE/GbiG C-terminal domain-like Superfamily: CobE/GbiG C-terminal domain-like Family: CobE/GbiG C-terminal domain-like
35	c2p90B	Alignment	not modelled	19.5	13	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: hypothetical protein cgl1923; PDBTitle: the crystal structure of a protein of unknown function from2 corynebacterium glutamicum atcc 13032
36	d2pw9a1	Alignment	not modelled	17.7	12	Fold: Cytidine deaminase-like Superfamily: Cytidine deaminase-like Family: FdhD/NarQ
37	c3rxzA	Alignment	not modelled	17.5	12	PDB header: hydrolase Chain: A: PDB Molecule: polysaccharide deacetylase; PDBTitle: crystal structure of putative polysaccharide deacetylase from2 mycobacterium smegmatis
38	c2kl8A	Alignment	not modelled	16.5	33	PDB header: de novo protein Chain: A: PDB Molecule: or15; PDBTitle: solution nmr structure of de novo designed ferredoxin-like2 fold protein, northeast structural genomics consortium3 target or15
39	c2b4rQ	Alignment	not modelled	16.4	19	PDB header: oxidoreductase Chain: Q: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: crystal structure of glyceraldehyde-3-phosphate dehydrogenase from2 plasmodium falciparum at 2.25 angstrom resolution reveals intriguing3 extra electron density in the active site
40	d1ggaa1	Alignment	not modelled	16.1	16	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Glyceraldehyde-3-phosphate dehydrogenase-like, N-terminal domain
41	c3eh7A	Alignment	not modelled	14.9	13	PDB header: transferase Chain: A: PDB Molecule: 4-hydroxybutyrate coa-transferase; PDBTitle: the structure of a putative 4-hydroxybutyrate coa-transferase from2 porphyromonas gingivalis w83
42	c2oasA	Alignment	not modelled	13.9	13	PDB header: transferase Chain: A: PDB Molecule: 4-hydroxybutyrate coenzyme a transferase; PDBTitle: crystal structure of 4-hydroxybutyrate coenzyme a transferase (atoa)2 in complex with coa from shewanella oneidensis, northeast structural3 genomics target sor119.
43	c3k2gA	Alignment	not modelled	13.3	14	PDB header: resiniferatoxin binding protein Chain: A: PDB Molecule: resiniferatoxin-binding, phosphotriesterase- PDBTitle: crystal structure of a resiniferatoxin-binding protein from2 rhodobacter sphaeroides
44	c3ke8A	Alignment	not modelled	13.1	23	PDB header: oxidoreductase Chain: A: PDB Molecule: 4-hydroxy-3-methylbut-2-enyl diphosphate PDBTitle: crystal structure of isph:hmbpp-complex
45	c2xioA	Alignment	not modelled	13.0	23	PDB header: hydrolase Chain: A: PDB Molecule: putative deoxyribonuclease tatdn1; PDBTitle: structure of putative deoxyribonuclease tatdn1 isoform a
46	d1ee0a2	Alignment	not modelled	12.9	6	Fold: Thiolase-like Superfamily: Thiolase-like Family: Chalcone synthase-like
47	d1y74b1	Alignment	not modelled	12.4	19	Fold: L27 domain Superfamily: L27 domain Family: L27 domain
48	c1cerC	Alignment	not modelled	12.3	24	PDB header: oxidoreductase (aldehyde(d)-nad(a)) Chain: C: PDB Molecule: holo-d-glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: determinants of enzyme thermostability observed in the2 molecular structure of thermus aquaticus d-glyceraldehyde-3 3-phosphate dehydrogenase at 2.5 angstroms resolution
49	c3m8yC	Alignment	not modelled	12.2	29	PDB header: isomerase Chain: C: PDB Molecule: phosphopentomutase; PDBTitle: phosphopentomutase from bacillus cereus after glucose-1,6-bisphosphate2 activation
50	c3eeqB	Alignment	not modelled	12.1	18	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: putative cobalamin biosynthesis protein g PDBTitle: crystal structure of a putative cobalamin biosynthesis2 protein g homolog from sulfolobus solfataricus
51	d1e6va2	Alignment	not modelled	12.0	20	Fold: Ferredoxin-like Superfamily: Methyl-coenzyme M reductase subunits Family: Methyl-coenzyme M reductase alpha and beta chain N-terminal domain
						PDB header: oxidoreductase Chain: C: PDB Molecule: pyruvate dehydrogenase complex,

52	c2eq9C_	Alignment	not modelled	11.8	11	dihydrolipoamide PDBTitle: crystal structure of lipoamide dehydrogenase from thermus thermophilus2 hb8 with psbdb
53	c2l09A_	Alignment	not modelled	11.7	16	PDB header: oxidoreductase Chain: A: PDB Molecule: asr4154 protein; PDBTitle: solution nmr structure of protein asr4154 from nostoc sp. pcc71202 northeast structural genomics consortium target id nsr143
54	c3tqnC_	Alignment	not modelled	11.6	7	PDB header: transcription Chain: C: PDB Molecule: transcriptional regulator, gntr family; PDBTitle: structure of the transcriptional regulator of the gntr family, from2 coxiella burnetii.
55	c3k13A_	Alignment	not modelled	11.4	8	PDB header: transferase Chain: A: PDB Molecule: 5-methyltetrahydrofolate-homocysteine methyltransferase; PDBTitle: structure of the pterin-binding domain metr of 5-2 methyltetrahydrofolate-homocysteine methyltransferase from3 bacteroides thetaiotaomicron
56	c2l82A_	Alignment	not modelled	11.4	44	PDB header: de novo protein Chain: A: PDB Molecule: designed protein or32; PDBTitle: solution nmr structure of de novo designed protein, p-loop ntpase2 fold, northeast structural genomics consortium target or32
57	c3dqqB_	Alignment	not modelled	11.2	28	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: putative trna synthase; PDBTitle: the crystal structure of the putative trna synthase from salmonella2 typhimurium lt2
58	d1k1da2	Alignment	not modelled	11.2	12	Fold: TIM beta/alpha-barrel Superfamily: Metallo-dependent hydrolases Family: Hydantoinase (dihydropyrimidinase), catalytic domain
59	d2g39a2	Alignment	not modelled	11.1	6	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: CoA transferase alpha subunit-like
60	c2wmyH_	Alignment	not modelled	11.0	17	PDB header: hydrolase Chain: H: PDB Molecule: putative acid phosphatase wzb; PDBTitle: crystal structure of the tyrosine phosphatase wzb from2 escherichia coli k30 in complex with sulphate.
61	c3d3uA_	Alignment	not modelled	11.0	21	PDB header: transferase Chain: A: PDB Molecule: 4-hydroxybutyrate coa-transferase; PDBTitle: crystal structure of 4-hydroxybutyrate coa-transferase (abft-2) from2 porphyromonas gingivalis. northeast structural genomics consortium3 target pgr26
62	c2fekA_	Alignment	not modelled	10.7	18	PDB header: hydrolase Chain: A: PDB Molecule: low molecular weight protein-tyrosine- PDBTitle: structure of a protein tyrosine phosphatase
63	c1vbiA_	Alignment	not modelled	10.7	4	PDB header: oxidoreductase Chain: A: PDB Molecule: type 2 malate/lactate dehydrogenase; PDBTitle: crystal structure of type 2 malate/lactate dehydrogenase from thermus2 thermophilus hb8
64	c2nvvF_	Alignment	not modelled	10.5	9	PDB header: hydrolase Chain: F: PDB Molecule: acetyl-coa hydrolase/transferase family protein; PDBTitle: crystal structure of the putative acetyl-coa hydrolase/transferase2 pg1013 from porphyromonas gingivalis, northeast structural genomics3 target pgr16.
65	d1u0ua2	Alignment	not modelled	10.5	12	Fold: Thiolase-like Superfamily: Thiolase-like Family: Chalcone synthase-like
66	c3dxiB_	Alignment	not modelled	10.4	16	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: putative aldolase; PDBTitle: crystal structure of the n-terminal domain of a putative2 aldolase (bvu_2661) from bacteroides vulgatus
67	d1s7ia_	Alignment	not modelled	10.4	22	Fold: Ferredoxin-like Superfamily: Dimeric alpha+beta barrel Family: DGPF domain (Pfam 04946)
68	d1k3ta1	Alignment	not modelled	10.3	18	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Glyceraldehyde-3-phosphate dehydrogenase-like, N-terminal domain
69	c3dv0l_	Alignment	not modelled	10.2	17	PDB header: oxidoreductase/transferase Chain: I: PDB Molecule: dihydrolipoyllysine-residue acetyltransferase PDBTitle: snapshots of catalysis in the e1 subunit of the pyruvate2 dehydrogenase multi-enzyme complex
70	d2p90a1	Alignment	not modelled	10.0	13	Fold: Phosphorylase/hydrolase-like Superfamily: Cgl1923-like Family: Cgl1923-like
71	d2w6ka1	Alignment	not modelled	9.8	16	Fold: CobE/GbiG C-terminal domain-like Superfamily: CobE/GbiG C-terminal domain-like Family: CobE/GbiG C-terminal domain-like
72	c3kltb_	Alignment	not modelled	9.6	17	PDB header: structural protein Chain: B: PDB Molecule: vimentin; PDBTitle: crystal structure of a vimentin fragment
73	c2zxqA_	Alignment	not modelled	9.6	11	PDB header: hydrolase Chain: A: PDB Molecule: endo-alpha-n-acetyl galactosaminidase; PDBTitle: crystal structure of endo-alpha-n-acetyl galactosaminidase2 from bifidobacterium longum (engbf)
74	c2eq7C_	Alignment	not modelled	9.6	12	PDB header: oxidoreductase Chain: C: PDB Molecule: 2-oxoglutarate dehydrogenase e2 component; PDBTitle: crystal structure of lipoamide dehydrogenase from thermus thermophilus2 hb8 with psbdo
75	d1e6ya2	Alignment	not modelled	9.2	25	Fold: Ferredoxin-like Superfamily: Methyl-coenzyme M reductase subunits Family: Methyl-coenzyme M reductase alpha and beta chain N-terminal domain
						PDB header: biosynthetic protein

76	c3by5A_	Alignment	not modelled	9.2	13	Chain: A: PDB Molecule: cobalamin biosynthesis protein; PDBTitle: crystal structure of cobalamin biosynthesis protein chig from2 agrobacterium tumefaciens str. c58
77	d3by5a1	Alignment	not modelled	9.2	13	Fold: CobE/GbiG C-terminal domain-like Superfamily: CobE/GbiG C-terminal domain-like Family: CobE/GbiG C-terminal domain-like
78	d1luxda_	Alignment	not modelled	9.1	5	Fold: lambda repressor-like DNA-binding domains Superfamily: lambda repressor-like DNA-binding domains Family: GalR/LacI-like bacterial regulator
79	c2pijB_	Alignment	not modelled	9.0	24	PDB header: transcription Chain: B: PDB Molecule: prophage pfl 6 cro; PDBTitle: structure of the cro protein from prophage pfl 6 in pseudomonas fluorescens pf-5
80	c2k29A_	Alignment	not modelled	8.9	19	PDB header: transcription Chain: A: PDB Molecule: antitoxin relb; PDBTitle: structure of the dbd domain of e. coli antitoxin relb
81	d1w85i_	Alignment	not modelled	8.9	17	Fold: Peripheral subunit-binding domain of 2-oxo acid dehydrogenase complex Superfamily: Peripheral subunit-binding domain of 2-oxo acid dehydrogenase complex Family: Peripheral subunit-binding domain of 2-oxo acid dehydrogenase complex
82	d2axoa1	Alignment	not modelled	8.2	16	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Atu2684-like
83	d1d1la_	Alignment	not modelled	8.2	28	Fold: lambda repressor-like DNA-binding domains Superfamily: lambda repressor-like DNA-binding domains Family: Phage repressors
84	c3ecqA_	Alignment	not modelled	8.1	11	PDB header: hydrolase Chain: A: PDB Molecule: endo-alpha-n-acetylglactosaminidase; PDBTitle: endo-alpha-n-acetylglactosaminidase from streptococcus pneumoniae:2 semet structure
85	c3fcrA_	Alignment	not modelled	8.0	11	PDB header: transferase Chain: A: PDB Molecule: putative aminotransferase; PDBTitle: crystal structure of putative aminotransferase (yp_614685.1) from2 silicibacter sp. tm1040 at 1.80 a resolution
86	c3ggmB_	Alignment	not modelled	7.9	50	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein bt9727_2919; PDBTitle: crystal structure of bt9727_2919 from bacillus2 thuringiensis subsp. northeast structural genomics target3 bur228b
87	c3nuiA_	Alignment	not modelled	7.9	11	PDB header: transferase Chain: A: PDB Molecule: pyruvate transaminase; PDBTitle: crystal structure of omega-transferase from vibrio fluvialis js17
88	c3n2lA_	Alignment	not modelled	7.9	21	PDB header: transferase Chain: A: PDB Molecule: orotate phosphoribosyltransferase; PDBTitle: 2.1 angstrom resolution crystal structure of an orotate2 phosphoribosyltransferase (pyre) from vibrio cholerae o1 biovar eltor3 str. n16961
89	c1w3dA_	Alignment	not modelled	7.8	17	PDB header: transferase Chain: A: PDB Molecule: dihydrolipeoyllysine-residue acetyltransferase PDBTitle: nmr structure of the peripheral-subunit binding domain of2 bacillus stearothermophilus e2p
90	d3buxb3	Alignment	not modelled	7.7	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
91	c3cieC_	Alignment	not modelled	7.6	11	PDB header: oxidoreductase Chain: C: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: crystal structure of glyceraldehyde 3-phosphate2 dehydrogenase from cryptosporidium parvum
92	d1bi5a2	Alignment	not modelled	7.5	8	Fold: Thiolase-like Superfamily: Thiolase-like Family: Chalcone synthase-like
93	d1vefa1	Alignment	not modelled	7.5	7	Fold: PLP-dependent transferase-like Superfamily: PLP-dependent transferases Family: GABA-aminotransferase-like
94	c2gi4A_	Alignment	not modelled	7.3	7	PDB header: hydrolase Chain: A: PDB Molecule: possible phosphotyrosine protein phosphatase; PDBTitle: solution structure of the low molecular weight protein2 tyrosine phosphatase from campylobacter jejuni.
95	d2imla1	Alignment	not modelled	7.1	23	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: MTH863-like
96	d4croa_	Alignment	not modelled	7.0	28	Fold: lambda repressor-like DNA-binding domains Superfamily: lambda repressor-like DNA-binding domains Family: Phage repressors
97	d1u0ma2	Alignment	not modelled	6.9	11	Fold: Thiolase-like Superfamily: Thiolase-like Family: Chalcone synthase-like
98	d1xg8a_	Alignment	not modelled	6.9	15	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: YuzD-like
99	d1hbna2	Alignment	not modelled	6.8	26	Fold: Ferredoxin-like Superfamily: Methyl-coenzyme M reductase subunits Family: Methyl-coenzyme M reductase alpha and beta chain N-terminal domain