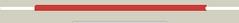
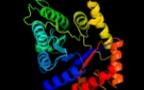
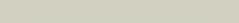
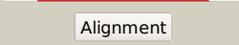
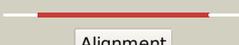
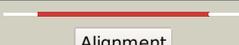


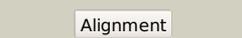
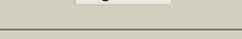
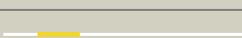
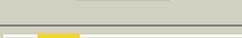
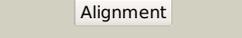
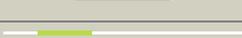
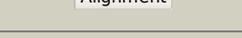
Phyre2

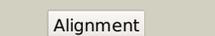
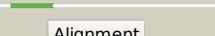
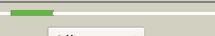
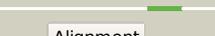
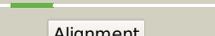
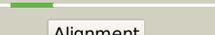
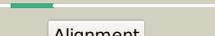
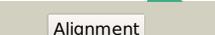
Email	mdejesus@rockefeller.edu
Description	RVBD2893 (-) _3202430_3203407
Date	Thu Aug 8 16:20:04 BST 2019
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Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1ezwa_	 Alignment		100.0	20	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: F420 dependent oxidoreductases
2	d1luca_	 Alignment		100.0	16	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: Bacterial luciferase (alkanal monooxygenase)
3	c3raoB_	 Alignment		100.0	21	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: putative luciferase-like monooxygenase; PDBTitle: crystal structure of the luciferase-like monooxygenase from bacillus2 cereus atcc 10987.
4	c3sdoB_	 Alignment		100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: nitrilotriacetate monooxygenase; PDBTitle: structure of a nitrilotriacetate monooxygenase from burkholderia2 pseudomallei
5	d1tvla_	 Alignment		100.0	16	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: Ssud-like monooxygenases
6	c1tvIA_	 Alignment		100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: protein ytnj; PDBTitle: structure of ytnj from bacillus subtilis
7	c1z69D_	 Alignment		100.0	22	PDB header: oxidoreductase Chain: D: PDB Molecule: coenzyme f420-dependent n(5),n(10)- PDBTitle: crystal structure of methylenetetrahydromethanopterin2 reductase (mer) in complex with coenzyme f420
8	c5tlcA_	 Alignment		100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: dibenzothiophene desulfurization enzyme a; PDBTitle: crystal structure of bdsa from bacillus subtilis wu-s2b
9	c3c8nB_	 Alignment		100.0	22	PDB header: oxidoreductase Chain: B: PDB Molecule: probable f420-dependent glucose-6-phosphate dehydrogenase PDBTitle: crystal structure of apo-fgd1 from mycobacterium tuberculosis
10	d1rhca_	 Alignment		100.0	19	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: F420 dependent oxidoreductases
11	d1nqka_	 Alignment		100.0	19	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: Ssud-like monooxygenases

12	c5dqpA_	 Alignment		100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: edta monooxygenase; PDBTitle: edta monooxygenase (emoa) from chelativorans sp. bnc1
13	d1f07a_	 Alignment		100.0	22	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: F420 dependent oxidoreductases
14	c5wanA_	 Alignment		100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: pyrimidine monooxygenase ruta; PDBTitle: crystal structure of a flavoenzyme ruta in the pyrimidine catabolic2 pathway
15	c2wgkA_	 Alignment		100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: 3,6-diketocamphane 1,6 monooxygenase; PDBTitle: type ii baeyer-villiger monooxygenase oxygenating2 constituent of 3,6-diketocamphane 1,6 monooxygenase from3 pseudomonas putida
16	c5w4zA_	 Alignment		100.0	24	PDB header: flavoprotein Chain: A: PDB Molecule: riboflavin lyase; PDBTitle: crystal structure of riboflavin lyase (rcae) with modified frm and2 substrate riboflavin
17	d1lucb_	 Alignment		100.0	18	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: Bacterial luciferase (alkanal monooxygenase)
18	c2i7gA_	 Alignment		100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: monooxygenase; PDBTitle: crystal structure of monooxygenase from agrobacterium tumefaciens
19	c3b9nB_	 Alignment		100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: alkane monooxygenase; PDBTitle: crystal structure of long-chain alkane monooxygenase (lada)
20	c2b81D_	 Alignment		100.0	20	PDB header: oxidoreductase Chain: D: PDB Molecule: luciferase-like monooxygenase; PDBTitle: crystal structure of the luciferase-like monooxygenase from bacillus2 cereus
21	c6friD_	 Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: D: PDB Molecule: alkanal monooxygenase beta chain; PDBTitle: structure of luxb from photobacterium leiognathi
22	c6ak1B_	 Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: B: PDB Molecule: dimethyl-sulfide monooxygenase; PDBTitle: crystal structure of dmoa from hyphomicrobium sulfonivorans
23	d1nfpa_	 Alignment	not modelled	99.9	15	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: Non-fluorescent flavoprotein (luxF, FP390)
24	d1fvpa_	 Alignment	not modelled	98.7	11	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: Non-fluorescent flavoprotein (luxF, FP390)
25	c5zmyF_	 Alignment	not modelled	89.0	23	PDB header: hydrolase Chain: F: PDB Molecule: cis-epoxysuccinate hydrolase; PDBTitle: crystal structure of a cis-epoxysuccinate hydrolase producing d(-)-2 tartaric acids
26	d1o5ka_	 Alignment	not modelled	85.7	15	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
27	c3c6cA_	 Alignment	not modelled	85.4	23	PDB header: hydrolase Chain: A: PDB Molecule: 3-keto-5-aminohexanoate cleavage enzyme; PDBTitle: crystal structure of a putative 3-keto-5-aminohexanoate cleavage2 enzyme (reut_c6226) from ralstonia eutropha jmp134 at 1.72 a3 resolution
28	c3no5C_	 Alignment	not modelled	83.7	18	PDB header: structural genomics, unknown function Chain: C: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a pfam duf849 domain containing protein2 (reut_a1631) from ralstonia eutropha jmp134 at 1.90 a

						resolution
29	c3chvA	 Alignment	not modelled	83.0	14	PDB header: metal binding protein Chain: A: PDB Molecule: prokaryotic domain of unknown function (duf849) with a tim PDBTitle: crystal structure of a prokaryotic domain of unknown function (duf849)2 member (spoa0042) from silicibacter pomeroyi dss-3 at 1.45 a3 resolution
30	c2y7eA	 Alignment	not modelled	82.2	18	PDB header: lyase Chain: A: PDB Molecule: 3-keto-5-aminohexanoate cleavage enzyme; PDBTitle: crystal structure of the 3-keto-5-aminohexanoate cleavage enzyme2 (kce) from candidatus cloacamonas acidaminovorans (tetragonal form)
31	c3e49A	 Alignment	not modelled	80.2	14	PDB header: metal binding protein Chain: A: PDB Molecule: uncharacterized protein duf849 with a tim barrel fold; PDBTitle: crystal structure of a prokaryotic domain of unknown function (duf849)2 with a tim barrel fold (bx_e_c0966) from burkholderia xenovorans lb4003 at 1.75 a resolution
32	c3lotC	 Alignment	not modelled	80.2	9	PDB header: structure genomics, unknown function Chain: C: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of protein of unknown function (np_070038.1) from2 archaeoglobus fulgidus at 1.89 a resolution
33	c3d0cB	 Alignment	not modelled	79.1	12	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from oceanobacillus2 iheyensis at 1.9 a resolution
34	d1jpdx1	 Alignment	not modelled	77.6	20	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
35	c2r8wB	 Alignment	not modelled	76.5	18	PDB header: lyase Chain: B: PDB Molecule: agr_c_1641p; PDBTitle: the crystal structure of dihydrodipicolinate synthase (atu0899) from2 agrobacterium tumefaciens str. c58
36	c3pueA	 Alignment	not modelled	76.2	8	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of the complex of dhydrodipicolinate synthase from2 acinetobacter baumannii with lysine at 2.6a resolution
37	c3e02A	 Alignment	not modelled	75.8	11	PDB header: metal binding protein Chain: A: PDB Molecule: uncharacterized protein duf849; PDBTitle: crystal structure of a duf849 family protein (bx_e_c0271) from2 burkholderia xenovorans lb400 at 1.90 a resolution
38	c3e96B	 Alignment	not modelled	75.1	18	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from bacillus2 clausii
39	c3qy6A	 Alignment	not modelled	73.2	15	PDB header: hydrolase Chain: A: PDB Molecule: tyrosine-protein phosphatase ywqe; PDBTitle: crystal structures of ywqe from bacillus subtilis and cpsb from2 streptococcus pneumoniae, unique metal-dependent tyrosine3 phosphatases
40	c3lerA	 Alignment	not modelled	72.0	14	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from campylobacter2 jejuni subsp. jejuni nctc 11168
41	c2ehhE	 Alignment	not modelled	70.9	9	PDB header: lyase Chain: E: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from2 aquifex aeolicus
42	d2a6na1	 Alignment	not modelled	70.8	10	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
43	c4nncA	 Alignment	not modelled	69.6	14	PDB header: lyase Chain: A: PDB Molecule: obca, oxalate biosynthetic component a; PDBTitle: ternary complex of obca with c4-coa adduct and oxalate
44	c4ur7B	 Alignment	not modelled	69.3	17	PDB header: lyase Chain: B: PDB Molecule: keto-deoxy-d-galactarate dehydratase; PDBTitle: crystal structure of keto-deoxy-d-galactarate dehydratase2 complexed with pyruvate
45	d1xxxal	 Alignment	not modelled	69.0	11	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
46	d1jpmal	Alignment	not modelled	68.7	15	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
47	c2yxgD	Alignment	not modelled	68.6	9	PDB header: lyase Chain: D: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase (dapa)
48	c4n4qD	Alignment	not modelled	67.4	8	PDB header: lyase Chain: D: PDB Molecule: acylneuraminate lyase; PDBTitle: crystal structure of n-acetylneuraminate lyase from mycoplasma2 synoviae, crystal form ii
49	c6mqhA	Alignment	not modelled	66.4	10	PDB header: lyase Chain: A: PDB Molecule: 4-hydroxy-tetrahydrodipicolinate synthase; PDBTitle: crystal structure of 4-hydroxy-tetrahydrodipicolinate synthase (htpa2 synthase) from burkholderia mallei
50	c3si9B	Alignment	not modelled	65.2	10	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from bartonella2 henselae
51	d1f74a	Alignment	not modelled	63.9	14	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
52	c5ud6B	Alignment	not modelled	63.6	6	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dhbps from cyanidioschyzon merolae with lysine2 bound

53	c4uxdC	 Alignment	not modelled	61.9	8	PDB header: lyase Chain: C: PDB Molecule: 2-dehydro-3-deoxy-d-gluconate/2-dehydro-3-deoxy- PDBTitle: 2-keto 3-deoxygluconate aldolase from picrophilus torridus
54	c2vc6A	 Alignment	not modelled	61.5	13	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: structure of mosa from s. melloti with pyruvate bound
55	c4ah7C	 Alignment	not modelled	61.4	6	PDB header: lyase Chain: C: PDB Molecule: n-acetylneuraminatase lyase; PDBTitle: structure of wild type staphylococcus aureus n-acetylneuraminic acid2 lyase in complex with pyruvate
56	c3eb2A	 Alignment	not modelled	61.1	11	PDB header: lyase Chain: A: PDB Molecule: putative dihydrodipicolinate synthetase; PDBTitle: crystal structure of dihydrodipicolinate synthase from2 rhodopseudomonas palustris at 2.0a resolution
57	c4icnB	 Alignment	not modelled	61.0	10	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: dihydrodipicolinate synthase from shewanella benthica
58	c3cprB	 Alignment	not modelled	60.0	13	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthetase; PDBTitle: the crystal structure of corynebacterium glutamicum2 dihydrodipicolinate synthase to 2.2 a resolution
59	c3na8A	 Alignment	not modelled	59.6	10	PDB header: lyase Chain: A: PDB Molecule: putative dihydrodipicolinate synthetase; PDBTitle: crystal structure of a putative dihydrodipicolinate synthetase from2 pseudomonas aeruginosa
60	c4xkyC	 Alignment	not modelled	59.2	10	PDB header: lyase Chain: C: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: structure of dihydrodipicolinate synthase from the commensal bacterium2 bacteroides thetaiotaomicron at 2.1 a resolution
61	c4i7vD	 Alignment	not modelled	58.6	11	PDB header: biosynthetic protein Chain: D: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: agrobacterium tumefaciens dhds with pyruvate
62	c3noeA	 Alignment	not modelled	58.3	10	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from pseudomonas2 aeruginosa
63	c6daoB	 Alignment	not modelled	57.4	3	PDB header: lyase Chain: B: PDB Molecule: trans-o-hydroxybenzylidenepyruvate hydratase-aldolase; PDBTitle: nahe wt selenomethionine
64	c3cqkB	 Alignment	not modelled	55.0	22	PDB header: isomerase Chain: B: PDB Molecule: l-ribulose-5-phosphate 3-epimerase ulae; PDBTitle: crystal structure of l-xylulose-5-phosphate 3-epimerase ulae (form b)2 complex with zn2+ and sulfate
65	d1j93a	 Alignment	not modelled	54.4	15	Fold: TIM beta/alpha-barrel Superfamily: UROD/MetE-like Family: Uroporphyrinogen decarboxylase, UROD
66	c3daqB	 Alignment	not modelled	54.1	8	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from methicillin-2 resistant staphylococcus aureus
67	c3bi8A	 Alignment	not modelled	53.2	13	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: structure of dihydrodipicolinate synthase from clostridium2 botulinum
68	c6daqA	 Alignment	not modelled	53.1	11	PDB header: lyase Chain: A: PDB Molecule: phdj; PDBTitle: phdj bound to substrate intermediate
69	c6k0aC	 Alignment	not modelled	49.1	8	PDB header: rna binding protein/rna Chain: C: PDB Molecule: ribonuclease p protein component 3; PDBTitle: cryo-em structure of an archaeal ribonuclease p
70	d1xp3a1	 Alignment	not modelled	48.6	13	Fold: TIM beta/alpha-barrel Superfamily: Xylose isomerase-like Family: Endonuclease IV
71	c2v9dB	 Alignment	not modelled	48.4	13	PDB header: lyase Chain: B: PDB Molecule: yage; PDBTitle: crystal structure of yage, a prophage protein belonging to2 the dihydrodipicolinic acid synthase family from e. coli3 k12
72	c5ktIA	 Alignment	not modelled	47.9	14	PDB header: lyase Chain: A: PDB Molecule: 4-hydroxy-tetrahydrodipicolinate synthase; PDBTitle: dihydrodipicolinate synthase from the industrial and evolutionarily2 important cyanobacteria anabaena variabilis.
73	c3lmzA	 Alignment	not modelled	47.5	11	PDB header: isomerase Chain: A: PDB Molecule: putative sugar isomerase; PDBTitle: crystal structure of putative sugar isomerase. (yp_001305105.1) from2 parabacteroides distazonis atcc 8503 at 1.44 a resolution
74	d1w3ja	 Alignment	not modelled	47.2	8	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
75	d2gl5a1	 Alignment	not modelled	47.0	28	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
76	c3fkKA	 Alignment	not modelled	47.0	11	PDB header: lyase Chain: A: PDB Molecule: l-2-keto-3-deoxyarabonate dehydratase; PDBTitle: structure of l-2-keto-3-deoxyarabonate dehydratase
77	c6ahuJ	 Alignment	not modelled	46.3	16	PDB header: hydrolase/rna Chain: J: PDB Molecule: ribonuclease p protein subunit p30; PDBTitle: cryo-em structure of human ribonuclease p with mature trna
78	c2wjeA	 Alignment	not modelled	44.6	14	PDB header: hydrolase Chain: A: PDB Molecule: tyrosine-protein phosphatase cpsb; PDBTitle: crystal structure of the tyrosine phosphatase cps4b from2

						streptococcus pneumoniae tigr4.
79	d2noca1	Alignment	not modelled	43.5	13	Fold: Dodecin subunit-like Superfamily: YdgH-like Family: YdgH-like
80	c5c54D	Alignment	not modelled	42.7	8	PDB header: lyase Chain: D: PDB Molecule: dihydrodipicolinate synthase/n-acetylneuraminate lyase; PDBTitle: crystal structure of a novel n-acetylneuraminic acid lyase from <i>2 corynebacterium glutamicum</i>
81	c5ikyA	Alignment	not modelled	42.0	16	PDB header: hydrolase,lyase Chain: A: PDB Molecule: oxalate biosynthetic component 1; PDBTitle: apo structure of obc1, a bifunctional enzyme for quorum sensing-2 dependent oxalogenesis
82	c3h5dD	Alignment	not modelled	41.4	13	PDB header: lyase Chain: D: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: dihydrodipicolinate synthase from drug-resistant streptococcus2 pneumoniae
83	c3n2xB	Alignment	not modelled	39.5	13	PDB header: lyase Chain: B: PDB Molecule: uncharacterized protein yage; PDBTitle: crystal structure of yage, a prophage protein belonging to the2 dihydrodipicolinic acid synthase family from e. coli k12 in complex3 with pyruvate
84	c2m2jA	Alignment	not modelled	39.0	15	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative periplasmic protein; PDBTitle: solution nmr structure of the n-terminal domain of stm1478 from <i>2 salmonella typhimurium lt2</i> : target str147a of the northeast3 structural genomics consortium (nesg), and apc101565 of the midwest4 center for structural genomics (mcsG).
85	c2r94B	Alignment	not modelled	38.7	16	PDB header: lyase Chain: B: PDB Molecule: 2-keto-3-deoxy-(6-phospho-)gluconate aldolase; PDBTitle: crystal structure of kd(p)ga from t.tenax
86	c4nq1B	Alignment	not modelled	37.8	13	PDB header: lyase Chain: B: PDB Molecule: 4-hydroxy-tetrahydrodipicolinate synthase; PDBTitle: legionella pneumophila dihydrodipicolinate synthase with first2 substrate pyruvate bound in the active site
87	c4b5nA	Alignment	not modelled	37.0	23	PDB header: oxidoreductase Chain: A: PDB Molecule: oxidoreductase, fmn-binding; PDBTitle: crystal structure of oxidized shewanella yellow enzyme 4 (syE4)
88	c2rfgB	Alignment	not modelled	36.4	16	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from hahella2 chejuensis at 1.5a resolution
89	c3ewbX	Alignment	not modelled	35.4	16	PDB header: transferase Chain: X: PDB Molecule: 2-isopropylmalate synthase; PDBTitle: crystal structure of n-terminal domain of putative 2-isopropylmalate2 synthase from listeria monocytogenes
90	c3g0sA	Alignment	not modelled	34.8	13	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: dihydrodipicolinate synthase from salmonella typhimurium lt2
91	d1bqga1	Alignment	not modelled	34.6	10	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
92	d1tzza1	Alignment	not modelled	34.0	10	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
93	d1xkya1	Alignment	not modelled	33.5	8	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
94	c3lciA	Alignment	not modelled	32.8	13	PDB header: lyase Chain: A: PDB Molecule: n-acetylneuraminate lyase; PDBTitle: the d-sialic acid aldolase mutant v251w
95	c5gquA	Alignment	not modelled	32.6	15	PDB header: transferase Chain: A: PDB Molecule: 1,4-alpha-glucan branching enzyme glgb; PDBTitle: crystal structure of branching enzyme from cyanothecce sp. atcc 51142
96	c3vniC	Alignment	not modelled	31.9	13	PDB header: isomerase Chain: C: PDB Molecule: xylose isomerase domain protein tim barrel; PDBTitle: crystal structures of d-psicose 3-epimerase from clostridium2 cellulolyticum h10 and its complex with ketohexose sugars
97	c1ydoC	Alignment	not modelled	31.8	14	PDB header: lyase Chain: C: PDB Molecule: hmg-coa lyase; PDBTitle: crystal structure of the bacillus subtilis hmg-coa lyase, northeast2 structural genomics target sr181.
98	d1hl2a	Alignment	not modelled	31.7	13	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
99	d1oyaa	Alignment	not modelled	31.2	19	Fold: TIM beta/alpha-barrel Superfamily: FMN-linked oxidoreductases Family: FMN-linked oxidoreductases
100	c5zfsA	Alignment	not modelled	30.4	16	PDB header: isomerase Chain: A: PDB Molecule: d-allulose-3-epimerase; PDBTitle: crystal structure of arthrobacter globiformis m30 sugar epimerase2 which can produce d-allulose from d-fructose
101	c4rtbA	Alignment	not modelled	30.4	11	PDB header: lyase Chain: A: PDB Molecule: hydG protein; PDBTitle: x-ray structure of the feFe-hydrogenase maturase hydG from <i>2 carboxydotherrmus hydrogenoformans</i>
102	d1jdfa1	Alignment	not modelled	30.3	9	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
103	c4wvc	Alignment	not modelled	30.0	16	PDB header: lyase Chain: C: PDB Molecule: biotin and thiamin synthesis associated;

103	c4wca_	Alignment	not modelled	30.0	10	PDBTitle: crystal structure of hydg: a maturase of the [fefe]-hydrogenase PDB header: oxidoreductase
104	c4a3uB_	Alignment	not modelled	29.9	19	Chain: B; PDB Molecule: nadh\;flavin oxidoreductase/nadh oxidase; PDBTitle: x-structure of the old yellow enzyme homologue from zymomonas mobilis2 (ncr)
105	d1e2ka_	Alignment	not modelled	28.5	12	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
106	c2gg8A_	Alignment	not modelled	28.4	23	PDB header: oxidoreductase Chain: A; PDB Molecule: oxidoreductase, fmn-binding; PDBTitle: structure of sye1, an oye homologue from s. ondeidensis, in complex2 with p-hydroxyacetophenone
107	c3s5oA_	Alignment	not modelled	28.0	10	PDB header: lyase Chain: A; PDB Molecule: 4-hydroxy-2-oxoglutarate aldolase, mitochondrial; PDBTitle: crystal structure of human 4-hydroxy-2-oxoglutarate aldolase bound to2 pyruvate
108	d1uoka2	Alignment	not modelled	28.0	11	Fold: TIM beta/alpha-barrel Superfamily: (Trans)glycosidases Family: Amylase, catalytic domain
109	c2oztA_	Alignment	not modelled	28.0	18	PDB header: lyase Chain: A; PDB Molecule: tlr1174 protein; PDBTitle: crystal structure of o-succinylbenzoate synthase from2 thermosynechococcus elongatus bp-1
110	c2x7vA_	Alignment	not modelled	27.9	18	PDB header: hydrolase Chain: A; PDB Molecule: probable endonuclease 4; PDBTitle: crystal structure of thermotoga maritima endonuclease iv in2 the presence of zinc
111	c3b4uB_	Alignment	not modelled	27.7	17	PDB header: lyase Chain: B; PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from agrobacterium2 tumefaciens str. c58
112	c3bh1A_	Alignment	not modelled	27.7	45	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: upf0371 protein dip2346; PDBTitle: crystal structure of protein dip2346 from corynebacterium diphtheriae
113	d1vyra_	Alignment	not modelled	27.2	19	Fold: TIM beta/alpha-barrel Superfamily: FMN-linked oxidoreductases Family: FMN-linked oxidoreductases
114	c4tmcB_	Alignment	not modelled	27.2	15	PDB header: flavoprotein Chain: B; PDB Molecule: old yellow enzyme; PDBTitle: crystal structure of old yellow enzyme from candida macedoniensis2 aku4588 complexed with p-hydroxybenzaldehyde
115	c5tchG_	Alignment	not modelled	27.0	23	PDB header: lyase Chain: G; PDB Molecule: tryptophan synthase alpha chain; PDBTitle: crystal structure of tryptophan synthase from m. tuberculosis -2 ligand-free form, trpa-g66v mutant
116	c5uurA_	Alignment	not modelled	26.4	18	PDB header: transferase Chain: A; PDB Molecule: dihydropteroate synthase; PDBTitle: xanthomonas albilineans dihydropteroate synthase with 4-aminobenzoic2 acid
117	c1ydnA_	Alignment	not modelled	26.2	9	PDB header: lyase Chain: A; PDB Molecule: hydroxymethylglutaryl-coa lyase; PDBTitle: crystal structure of the hmg-coa lyase from brucella melitensis,2 northeast structural genomics target lr35.
118	c1bf2A_	Alignment	not modelled	26.0	14	PDB header: hydrolase Chain: A; PDB Molecule: isoamylase; PDBTitle: structure of pseudomonas isoamylase
119	c3dcpB_	Alignment	not modelled	25.5	16	PDB header: hydrolase Chain: B; PDB Molecule: histidinol-phosphatase; PDBTitle: crystal structure of the putative histidinol phosphatase hisk from2 listeria monocytogenes. northeast structural genomics consortium3 target lmr141.
120	d1m53a2	Alignment	not modelled	25.4	14	Fold: TIM beta/alpha-barrel Superfamily: (Trans)glycosidases Family: Amylase, catalytic domain