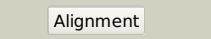
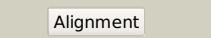
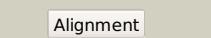
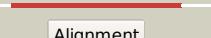
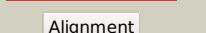
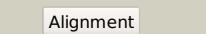
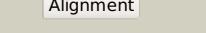
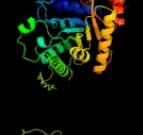
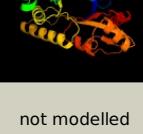
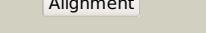
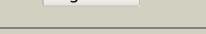
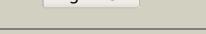
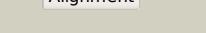
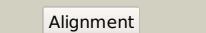


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD0791c_(-)_884800_885843
Date	Fri Jul 26 01:50:37 BST 2019
Unique Job ID	25f1c4e790fce035

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3raoB_			100.0	27	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.
2	c3sdoB_			100.0	22	PDB header: oxidoreductase Chain: B: PDB Molecule: nitrilotriacetate monooxygenase; PDBTitle: structure of a nitrilotriacetate monooxygenase from burkholderia2 pseudomallei
3	c1tvIA_			100.0	23	PDB header: oxidoreductase Chain: A: PDB Molecule: protein ytnj; PDBTitle: structure of ytnj from bacillus subtilis
4	d1tvla_			100.0	23	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: Sud-like monooxygenases
5	c5tlcA_			100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: dibenzothiophene desulfurization enzyme a; PDBTitle: crystal structure of bdsa from bacillus subtilis wu-s2b
6	d1luca_			100.0	19	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: Bacterial luciferase (alkanal monooxygenase)
7	d1ezwa_			100.0	25	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: F420 dependent oxidoreductases
8	c5dqpa_			100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: edta monooxygenase; PDBTitle: edta monooxygenase (emoa) from chelatavorans sp. bnc1
9	c2b81D_			100.0	23	PDB header: oxidoreductase Chain: D: PDB Molecule: luciferase-like monooxygenase; PDBTitle: crystal structure of the luciferase-like monooxygenase from bacillus2 cereus
10	c2i7gA_			100.0	25	PDB header: oxidoreductase Chain: A: PDB Molecule: monooxygenase; PDBTitle: crystal structure of monooxygenase from agrobacterium tumefaciens
11	c5w4zA_			100.0	22	PDB header: flavoprotein Chain: A: PDB Molecule: riboflavin lyase; PDBTitle: crystal structure of riboflavin lyase (rcae) with modified fmn and2 substrate riboflavin

12	c5wanA_			100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: pyrimidine monooxygenase ruta; PDBTitle: crystal structure of a flavoenzyme ruta in the pyrimidine catabolic2 pathway
13	d1nqka_			100.0	24	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: Ssd-like monooxygenases
14	c1z69D_			100.0	25	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
15	c3b9nB_			100.0	19	PDB header: oxidoreductase Chain: B: PDB Molecule: alkane monooxygenase; PDBTitle: crystal structure of long-chain alkane monooxygenase (lada)
16	d1lucb_			100.0	22	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: Bacterial luciferase (alkanal monooxygenase)
17	c3c8nB_			100.0	25	PDB header: oxidoreductase Chain: B: PDB Molecule: probable f420-dependent glucose-6-phosphate dehydrogenase PDBTitle: crystal structure of apo-fgd1 from mycobacterium tuberculosis
18	c2wgkA_			100.0	20	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
19	c6ak1B_			100.0	22	PDB header: oxidoreductase Chain: B: PDB Molecule: dimethyl-sulfide monooxygenase; PDBTitle: crystal structure of dmoa from hyphomicrobium sulfonivorans
20	c6friD_			100.0	20	PDB header: oxidoreductase Chain: D: PDB Molecule: alkanal monooxygenase beta chain; PDBTitle: structure of luxb from photobacterium leiognathi
21	d1rhca_		not modelled	100.0	23	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: F420 dependent oxidoreductases
22	d1f07a_		not modelled	100.0	22	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: F420 dependent oxidoreductases
23	d1nfpa_		not modelled	99.9	11	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: Non-fluorescent flavoprotein (luxF, FP390)
24	d1fvpa_		not modelled	99.0	14	Fold: TIM beta/alpha-barrel Superfamily: Bacterial luciferase-like Family: Non-fluorescent flavoprotein (luxF, FP390)
25	c3qy6A_		not modelled	82.7	12	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
26	d1jpdx1		not modelled	82.4	17	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
27	c3fa4D_		not modelled	74.4	21	PDB header: lyase Chain: D: PDB Molecule: 2,3-dimethylmalate lyase; PDBTitle: crystal structure of 2,3-dimethylmalate lyase, a pep mutase/isocitrate2 lyase superfamily member, triclinic crystal form
28	d1muma_		not modelled	67.5	14	Fold: TIM beta/alpha-barrel Superfamily: Phosphoenolpyruvate/pyruvate domain Family: Phosphoenolpyruvate mutase/Isocitrate lyase-like
						PDB header: hydrolase

29	c5zmyF	Alignment	not modelled	67.3	15	Chain: F: PDB Molecule: cis-epoxysuccinate hydrolase; PDBTitle: crystal structure of a cis-epoxysuccinate hydrolase producing d(-)-2 taric acids
30	c1zlpA	Alignment	not modelled	67.3	14	PDB header: lyase Chain: A: PDB Molecule: petal death protein; PDBTitle: petal death protein psr132 with cysteine-linked glutaraldehyde forming2 a thiohemiacetal adduct
31	c3eo0L	Alignment	not modelled	66.7	17	PDB header: lyase Chain: L: PDB Molecule: methylisocitrate lyase; PDBTitle: 2.9a crystal structure of methyl-isocitrate lyase from2 burkholderia pseudomallei
32	c3lyeA	Alignment	not modelled	63.1	19	PDB header: hydrolase Chain: A: PDB Molecule: oxaloacetate acetyl hydrolase; PDBTitle: crystal structure of oxaloacetate acetylhydrolase
33	c3b8iF	Alignment	not modelled	61.2	22	PDB header: lyase Chain: F: PDB Molecule: pa4872 oxaloacetate decarboxylase; PDBTitle: crystal structure of oxaloacetate decarboxylase from pseudomonas2 aeruginosa (pa4872) in complex with oxalate and mg2+.
34	d1ujqa	Alignment	not modelled	60.6	11	Fold: TIM beta/alpha-barrel Superfamily: Phosphoenolpyruvate/pyruvate domain Family: Phosphoenolpyruvate mutase/Iscitrate lyase-like
35	c2ze3A	Alignment	not modelled	60.0	19	PDB header: isomerase Chain: A: PDB Molecule: dfa0005; PDBTitle: crystal structure of dfa0005 complexed with alpha-ketoglutarate: a2 novel member of the icl/pepm superfamily from alkali-tolerant3 deinococcus ficus
36	d1jpma1	Alignment	not modelled	59.8	13	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
37	c3ih1A	Alignment	not modelled	59.7	17	PDB header: lyase Chain: A: PDB Molecule: methylisocitrate lyase; PDBTitle: crystal structure of carboxyvinyl-carboxyphosphonate phosphomutase2 from bacillus anthracis
38	c2wjeA	Alignment	not modelled	58.2	14	PDB header: hydrolase Chain: A: PDB Molecule: tyrosine-protein phosphatase cpsb; PDBTitle: crystal structure of the tyrosine phosphatase cps4b from2 staphylococcus pneumoniae tigr4.
39	c3b4uB	Alignment	not modelled	57.1	20	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from agrobacterium2 tumefaciens str. c58
40	c2r8wB	Alignment	not modelled	54.9	35	PDB header: lyase Chain: B: PDB Molecule: agr_c_1641p; PDBTitle: the crystal structure of dihydrodipicolinate synthase (atu0899) from2 agrobacterium tumefaciens str. c58
41	c2qiwA	Alignment	not modelled	54.7	8	PDB header: transferase Chain: A: PDB Molecule: pep phosphonomutase; PDBTitle: crystal structure of a putative phosphoenolpyruvate phosphonomutase2 (ncgl1015, cgl1060) from corynebacterium glutamicum atcc 13032 at 3.180 a resolution
42	c4mg4G	Alignment	not modelled	51.7	17	PDB header: unknown function Chain: G: PDB Molecule: phosphonomutase; PDBTitle: crystal structure of a putative phosphonomutase from burkholderia2 cenocepacia j2315
43	c4lsbA	Alignment	not modelled	47.4	18	PDB header: lyase Chain: A: PDB Molecule: lyase/mutase; PDBTitle: crystal structure of a putative lyase/mutase from burkholderia2 cenocepacia j2315
44	d1o5ka	Alignment	not modelled	43.5	16	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
45	c3dcPb	Alignment	not modelled	43.2	26	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.
46	c6k0aC	Alignment	not modelled	43.0	5	PDB header: rna binding protein/rna Chain: C: PDB Molecule: ribonuclease p protein component 3; PDBTitle: cryo-em structure of an archaeal ribonuclease p
47	c2yb1A	Alignment	not modelled	42.8	24	PDB header: hydrolase Chain: A: PDB Molecule: amidohydrolase; PDBTitle: structure of an amidohydrolase from chromobacterium violaceum (efi2 target efi-500202) with bound mn, amp and phosphate.
48	c3bh1A	Alignment	not modelled	41.7	38	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: upf0371 protein dip2346; PDBTitle: crystal structure of protein dip2346 from corynebacterium diphtheriae
49	d1tzza1	Alignment	not modelled	41.5	18	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
50	c5ud6B	Alignment	not modelled	40.6	16	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dhds from cyanidioschyzon merolae with lysine2 bound
51	c4mwaA	Alignment	not modelled	40.0	15	PDB header: oxidoreductase Chain: A: PDB Molecule: 4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase; PDBTitle: 1.85 angstrom crystal structure of gcpe protein from bacillus2 anthracis
52	c3e0fa	Alignment	not modelled	39.9	26	PDB header: hydrolase Chain: A: PDB Molecule: putative metal-dependent phosphoesterase; PDBTitle: crystal structure of a putative metal-dependent phosphoesterase2 (bad_1165) from bifidobacterium adolescentis atcc 15703 at 2.40 a3 resolution

53	c4nncA	Alignment	not modelled	37.4	17	Chain: A: PDB Molecule: obca, oxalate biosynthetic component a; PDBTitle: ternary complex of obca with c4-coa adduct and oxalate
54	c3chvA	Alignment	not modelled	35.9	13	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
55	c6daqA	Alignment	not modelled	35.9	12	PDB header: lyase Chain: A: PDB Molecule: phdj; PDBTitle: phdj bound to substrate intermediate
56	c2r94B	Alignment	not modelled	35.4	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
57	c3lerA	Alignment	not modelled	35.1	26	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from campylobacter2 jejuni subsp. jejuni nctc 11168
58	c3daqB	Alignment	not modelled	35.1	22	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from methicillin-2 resistant staphylococcus aureus
59	d1e8ca2	Alignment	not modelled	33.5	16	Fold: MurD-like peptide ligases, peptide-binding domain Superfamily: MurD-like peptide ligases, peptide-binding domain Family: MurCDEF C-terminal domain
60	c3e96B	Alignment	not modelled	33.4	15	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from bacillus2 clausii
61	c6arhA	Alignment	not modelled	33.3	26	PDB header: lyase Chain: A: PDB Molecule: n-acetylneuraminate lyase; PDBTitle: crystal structure of human nal at a resolution of 1.6 angstrom
62	c3no5C	Alignment	not modelled	32.9	9	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
63	d1s2wa	Alignment	not modelled	32.5	14	Fold: TIM beta/alpha-barrel Superfamily: Phosphoenolpyruvate/pyruvate domain Family: Phosphoenolpyruvate mutase/Iscitrate lyase-like
64	d1r0ma1	Alignment	not modelled	31.6	10	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
65	c6ahuj	Alignment	not modelled	31.5	15	PDB header: hydrolase/rna Chain: J: PDB Molecule: ribonuclease p protein subunit p30; PDBTitle: cryo-em structure of human ribonuclease p with mature trna
66	c5ktIA	Alignment	not modelled	31.2	23	PDB header: lyase Chain: A: PDB Molecule: 4-hydroxy-tetrahydrodipicolinate synthase; PDBTitle: dihydrodipicolinate synthase from the industrial and evolutionarily2 important cyanobacteria anabaena variabilis.
67	c4n4qD	Alignment	not modelled	31.2	10	PDB header: lyase Chain: D: PDB Molecule: acylneuraminate lyase; PDBTitle: crystal structure of n-acetylneuraminate lyase from mycoplasma2 synoviae, crystal form ii
68	d2d69a1	Alignment	not modelled	31.1	17	Fold: TIM beta/alpha-barrel Superfamily: RubisCo, C-terminal domain Family: RubisCo, large subunit, C-terminal domain
69	c4exqA	Alignment	not modelled	30.6	13	PDB header: biosynthetic protein Chain: A: PDB Molecule: uroporphyrinogen decarboxylase; PDBTitle: crystal structure of uroporphyrinogen decarboxylase (upd) from2 burkholderia thailandensis e264
70	d1wuea1	Alignment	not modelled	30.4	8	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
71	c3bi8A	Alignment	not modelled	30.4	22	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: structure of dihydrodipicolinate synthase from clostridium2 botulinum
72	c3noyA	Alignment	not modelled	30.3	15	PDB header: oxidoreductase Chain: A: PDB Molecule: 4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase; PDBTitle: crystal structure of ispg (gcpe)
73	d1wufa1	Alignment	not modelled	29.9	10	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
74	c4fioA	Alignment	not modelled	29.8	17	PDB header: hydrolase Chain: A: PDB Molecule: methenyltetrahydromethanopterin cyclohydrolase; PDBTitle: crystal structure of methenyltetrahydromethanopterin cyclohydrolase2 from methanobrevibacter ruminantium
75	c4nq1B	Alignment	not modelled	29.0	26	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
76	c3e38A	Alignment	not modelled	28.9	32	PDB header: hydrolase Chain: A: PDB Molecule: two-domain protein containing predicted php-like metal- PDBTitle: crystal structure of a two-domain protein containing predicted php-2 like metal-dependent phosphoesterase (bvu_3505) from bacteroides3 vulgatus atcc 8482 at 2.20 a resolution
77	d1sjda1	Alignment	not modelled	28.7	13	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
						Fold: 7-stranded beta/alpha barrel

78	d1m65a	Alignment	not modelled	28.5	21	Superfamily: PHP domain-like Family: PHP domain
79	c3lciA	Alignment	not modelled	28.1	30	PDB header: lyase Chain: A: PDB Molecule: n-acetylneuraminate lyase; PDBTitle: the d-sialic acid aldolase mutant v251w
80	c2yxgD	Alignment	not modelled	27.8	30	PDB header: lyase Chain: D: PDB Molecule: dihydridopicolinate synthase; PDBTitle: crystal structure of dihydridopicolinate synthase (dapa)
81	c3pueA	Alignment	not modelled	27.4	16	PDB header: lyase Chain: A: PDB Molecule: dihydridopicolinate synthase; PDBTitle: crystal structure of the complex of dihydridopicolinate synthase from2 acinetobacter baumannii with lysine at 2.6a resolution
82	c3na8A	Alignment	not modelled	27.3	16	PDB header: lyase Chain: A: PDB Molecule: putative dihydridopicolinate synthetase; PDBTitle: crystal structure of a putative dihydridopicolinate synthetase from2 pseudomonas aeruginosa
83	c2hmcA	Alignment	not modelled	27.3	15	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: dihydridopicolinate synthase; PDBTitle: the crystal structure of dihydridopicolinate synthase dapa from2 agrobacterium tumefaciens
84	d1j93a	Alignment	not modelled	26.6	17	Fold: TIM beta/alpha-barrel Superfamily: UROD/MetE-like Family: Uroporphyrinogen decarboxylase, UROD
85	c3qfeB	Alignment	not modelled	26.4	14	PDB header: lyase Chain: B: PDB Molecule: putative dihydridopicolinate synthase family protein; PDBTitle: crystal structures of a putative dihydridopicolinate synthase family2 protein from coccidioides immitis
86	c2hjpA	Alignment	not modelled	26.4	16	PDB header: hydrolase Chain: A: PDB Molecule: phosphonopyruvate hydrolase; PDBTitle: crystal structure of phosphonopyruvate hydrolase complex with2 phosphonopyruvate and mg++
87	c3d0cB	Alignment	not modelled	26.1	16	PDB header: lyase Chain: B: PDB Molecule: dihydridopicolinate synthase; PDBTitle: crystal structure of dihydridopicolinate synthase from oceanobacillus2 iheyensis at 1.9 a resolution
88	c3s5oA	Alignment	not modelled	26.1	17	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
89	d1xxxal	Alignment	not modelled	25.6	8	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
90	c6mqhA	Alignment	not modelled	25.5	15	PDB header: lyase Chain: A: PDB Molecule: 4-hydroxy-tetrahydridopicolinate synthase; PDBTitle: crystal structure of 4-hydroxy-tetrahydridopicolinate synthase (htpa2 synthase) from burkholderia mallei
91	c2ejaB	Alignment	not modelled	25.4	11	PDB header: lyase Chain: B: PDB Molecule: uroporphyrinogen decarboxylase; PDBTitle: crystal structure of uroporphyrinogen decarboxylase from2 aquifex aeolicus
92	c2v9dB	Alignment	not modelled	25.2	30	PDB header: lyase Chain: B: PDB Molecule: yage; PDBTitle: crystal structure of yage, a prophage protein belonging to2 the dihydridopicolinic acid synthase family from e. coli3 k12
93	c2rgfB	Alignment	not modelled	24.9	30	PDB header: lyase Chain: B: PDB Molecule: dihydridopicolinate synthase; PDBTitle: crystal structure of dihydridopicolinate synthase from hahella2 chejuensis at 1.5a resolution
94	c2w9mB	Alignment	not modelled	24.8	14	PDB header: dna replication Chain: B: PDB Molecule: polymerase x; PDBTitle: structure of family x dna polymerase from deinococcus2 radiodurans
95	c4i7vD	Alignment	not modelled	24.5	19	PDB header: biosynthetic protein Chain: D: PDB Molecule: dihydridopicolinate synthase; PDBTitle: agrobacterium tumefaciens dhps with pyruvate
96	d2mnra1	Alignment	not modelled	24.4	15	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
97	c5ui3C	Alignment	not modelled	24.3	15	PDB header: lyase Chain: C: PDB Molecule: dihydridopicolinate synthase; PDBTitle: crystal structure of dhps from chlamydomonas reinhardtii
98	c2y7eA	Alignment	not modelled	24.3	12	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)
99	c2yz5B	Alignment	not modelled	24.1	26	PDB header: hydrolase Chain: B: PDB Molecule: histidinol phosphatase; PDBTitle: histidinol phosphate phosphatase complexed with phosphate
100	c5ocsB	Alignment	not modelled	22.7	12	PDB header: flavoprotein Chain: B: PDB Molecule: putative nadh-dependent flavin oxidoreductase; PDBTitle: ene-reductase (er/oye) from ralstonia (cupriavidus) metallidurans
101	c3fkka	Alignment	not modelled	22.6	14	PDB header: lyase Chain: A: PDB Molecule: l-2-keto-3-deoxyarabonate dehydratase; PDBTitle: structure of l-2-keto-3-deoxyarabonate dehydratase
102	c4ah7C	Alignment	not modelled	22.6	19	PDB header: lyase Chain: C: PDB Molecule: n-acetylneuraminate lyase; PDBTitle: structure of wild type staphylococcus aureus n-acetylneuraminc acid2 lyase in complex with pyruvate

103	c2vc6A	Alignment	not modelled	22.2	21	PDB header: lyase Chain: A; PDB Molecule: dihydrodipicolinate synthase; PDBTitle: structure of mosa from s. meliloti with pyruvate bound
104	c4b5nA	Alignment	not modelled	22.1	23	PDB header: oxidoreductase Chain: A; PDB Molecule: oxidoreductase, fmn-binding; PDBTitle: crystal structure of oxidized shewanella yellow enzyme 4 (sye4)
105	c5ikyA	Alignment	not modelled	21.8	19	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
106	c3eb2A	Alignment	not modelled	21.5	17	PDB header: lyase Chain: A; PDB Molecule: putative dihydrodipicolinate synthetase; PDBTitle: crystal structure of dihydrodipicolinate synthase from2 rhodopseudomonas palustris at 2.0a resolution
107	d2a6na1	Alignment	not modelled	21.5	10	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
108	d1yeya1	Alignment	not modelled	21.4	12	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
109	c4dppB	Alignment	not modelled	21.3	15	PDB header: lyase Chain: B; PDB Molecule: dihydrodipicolinate synthase 2, chloroplastic; PDBTitle: the structure of dihydrodipicolinate synthase 2 from arabidopsis2 thaliana
110	c4zr8B	Alignment	not modelled	21.2	15	PDB header: lyase Chain: B; PDB Molecule: uroporphyrinogen decarboxylase; PDBTitle: structure of uroporphyrinogen decarboxylase from acinetobacter2 baumannii
111	d2gl5a1	Alignment	not modelled	21.1	14	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
112	c3cpkB	Alignment	not modelled	21.0	15	PDB header: lyase Chain: B; PDB Molecule: dihydrodipicolinate synthetase; PDBTitle: the crystal structure of corynebacterium glutamicum2 dihydrodipicolinate synthase to 2.2 a resolution
113	d1w3ia	Alignment	not modelled	21.0	13	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
114	c2d69B	Alignment	not modelled	20.9	16	PDB header: lyase Chain: B; PDB Molecule: ribulose bisphosphate carboxylase; PDBTitle: crystal structure of the complex of sulfate ion and octameric2 ribulose-1,5-bisphosphate carboxylase/oxygenase (rubisco) from3 pyrococcus horikoshii ot3 (form-2 crystal)
115	d1e2ka	Alignment	not modelled	20.7	10	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
116	c6hunA	Alignment	not modelled	20.7	14	PDB header: photosynthesis Chain: A; PDB Molecule: ribulose bisphosphate carboxylase; PDBTitle: dimeric archeal rubisco from hyperthermus butylicus
117	d2gdqa1	Alignment	not modelled	20.4	13	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
118	c4gx9A	Alignment	not modelled	20.3	16	PDB header: transferase Chain: A; PDB Molecule: dna polymerase iii subunit epsilon,dna polymerase iii PDBTitle: crystal structure of a dna polymerase iii alpha-epsilon chimera
119	c2nuxB	Alignment	not modelled	20.2	10	PDB header: lyase Chain: B; PDB Molecule: 2-keto-3-deoxygluconate/2-keto-3-deoxy-6-phospho gluconate PDBTitle: 2-keto-3-deoxygluconate aldolase from sulfobolus acidocaldarius,2 native structure in p6522 at 2.5 a resolution
120	d1geha1	Alignment	not modelled	20.1	13	Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain