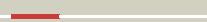


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD1355c_(moeY)_1521891_1524038
Date	Wed Jul 31 22:05:45 BST 2019
Unique Job ID	4767129b56ca8821

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2ymvA			100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: acg nitroreductase; PDBTitle: structure of reduced m smegmatis 5246, a homologue of m.2 tuberculosis acg
2	c6h77B			100.0	17	PDB header: signaling protein Chain: B: PDB Molecule: ubiquitin-like modifier-activating enzyme 5; PDBTitle: e1 enzyme for ubiquitin like protein activation in complex with ubl
3	c4d7aA			100.0	19	PDB header: ligase Chain: A: PDB Molecule: tRNA threonylcarbamoyladenine dehydratase; PDBTitle: crystal structure of e. coli tRNA n6-threonylcarbamoyladenine2 dehydratase, tcda, in complex with amp at 1.801 angstroem3 resolution
4	c1zfnA			100.0	21	PDB header: transferase Chain: A: PDB Molecule: adenylyltransferase thiF; PDBTitle: structural analysis of escherichia coli thiF
5	c3h9gA			100.0	18	PDB header: transferase/antibiotic Chain: A: PDB Molecule: mccb protein; PDBTitle: crystal structure of e. coli mccb + mcca-n7isoasn
6	d1jw9b			100.0	24	Fold: Activating enzymes of the ubiquitin-like proteins Superfamily: Activating enzymes of the ubiquitin-like proteins Family: Molybdenum cofactor biosynthesis protein MoeB
7	c5ff5A			100.0	26	PDB header: transferase Chain: A: PDB Molecule: paaa; PDBTitle: crystal structure of semet paaa
8	d1yovb1			100.0	21	Fold: Activating enzymes of the ubiquitin-like proteins Superfamily: Activating enzymes of the ubiquitin-like proteins Family: Ubiquitin activating enzymes (UBA)
9	c3gznB			100.0	16	PDB header: protein binding/ligase Chain: B: PDB Molecule: nedd8-activating enzyme e1 catalytic subunit; PDBTitle: structure of nedd8-activating enzyme in complex with nedd8 and mln4924
10	c3kycB			100.0	20	PDB header: ligase Chain: B: PDB Molecule: sumo-activating enzyme subunit 2; PDBTitle: human sumo e1 complex with a sumo1-amp mimic
11	c3kydB			100.0	20	PDB header: ligase Chain: B: PDB Molecule: sumo-activating enzyme subunit 2; PDBTitle: human sumo e1~sumo1-amp tetrahedral intermediate mimic

12	c1y8qD			100.0	20	PDB header: ligase Chain: D: PDB Molecule: ubiquitin-like 2 activating enzyme e1b; PDBTitle: sumo e1 activating enzyme sae1-sae2-mg-atp complex
13	c3wv9D			100.0	16	PDB header: transferase Chain: D: PDB Molecule: hmd co-occurring protein hcge; PDBTitle: guanylypyridinol (gp)- and atp-bound hcge from methanothermobacter2 marburgensis
14	c6dc6A			100.0	21	PDB header: signaling protein/ligase Chain: A: PDB Molecule: ubiquitin-like modifier-activating enzyme 1; PDBTitle: crystal structure of human ubiquitin activating enzyme e1 (uba1) in2 complex with ubiquitin
15	c3vh3A			100.0	14	PDB header: metal binding protein/protein transport Chain: A: PDB Molecule: ubiquitin-like modifier-activating enzyme atg7; PDBTitle: crystal structure of atg7ctd-atg8 complex
16	c4ii3A			100.0	21	PDB header: ligase Chain: A: PDB Molecule: ubiquitin-activating enzyme e1 1; PDBTitle: crystal structure of s. pombe ubiquitin activating enzyme 1 (uba1) in2 complex with ubiquitin and atp/mg
17	c3cmmA			100.0	21	PDB header: ligase/protein binding Chain: A: PDB Molecule: ubiquitin-activating enzyme e1 1; PDBTitle: crystal structure of the uba1-ubiquitin complex
18	c1y8qA			100.0	16	PDB header: ligase Chain: A: PDB Molecule: ubiquitin-like 1 activating enzyme e1a; PDBTitle: sumo e1 activating enzyme sae1-sae2-mg-atp complex
19	c2nvuB			100.0	16	PDB header: protein turnover, ligase Chain: B: PDB Molecule: maltose binding protein/nedd8-activating enzyme PDBTitle: structure of appbp1-uba3-nedd8-nedd8-mgatp-ubc12(c111a), a2 trapped ubiquitin-like protein activation complex
20	c3vh1A			100.0	17	PDB header: metal binding protein Chain: A: PDB Molecule: ubiquitin-like modifier-activating enzyme atg7; PDBTitle: crystal structure of saccharomyces cerevisiae atg7 (1-595)
21	d1yova1		not modelled	100.0	16	Fold: Activating enzymes of the ubiquitin-like proteins Superfamily: Activating enzymes of the ubiquitin-like proteins Family: Ubiquitin activating enzymes (UBA)
22	c4p22A		not modelled	100.0	23	PDB header: ligase Chain: A: PDB Molecule: ubiquitin-like modifier-activating enzyme 1; PDBTitle: crystal structure of n-terminal fragments of e1
23	c3gucB		not modelled	99.9	14	PDB header: transferase Chain: B: PDB Molecule: ubiquitin-like modifier-activating enzyme 5; PDBTitle: human ubiquitin-activating enzyme 5 in complex with amppnp
24	c3gr3B		not modelled	99.7	13	PDB header: flavoprotein Chain: B: PDB Molecule: nitroreductase; PDBTitle: crystal structure of a nitroreductase-like family protein (pnba_2 bh06130) from bartonella henselae str. houston-1 at 1.45 a resolution
25	c2is1B		not modelled	99.5	19	PDB header: flavoprotein Chain: B: PDB Molecule: blub; PDBTitle: blub bound to reduced flavin (fmnh2) and molecular oxygen.2 (clear crystal form)
26	c3kwkA		not modelled	99.5	18	PDB header: oxidoreductase Chain: A: PDB Molecule: putative nadh dehydrogenase/nad(p)h nitroreductase; PDBTitle: crystal structure of putative nadh dehydrogenase/nad(p)h2 nitroreductase (np_809094.1) from bacteroides thetaiotaomicron vpi-3 5482 at 1.54 a resolution
27	c3gh8A		not modelled	99.5	15	PDB header: oxidoreductase Chain: A: PDB Molecule: iodotyrosine dehalogenase 1; PDBTitle: crystal structure of mus musculus iodotyrosine deiodinase (iyd) bound2 to fmn and di-iodotyrosine (dit)
						PDB header: unknown function

28	c4xomB	Alignment	not modelled	99.5	19	Chain: B: PDB Molecule: coenzyme f420:l-glutamate ligase; PDBTitle: coenzyme f420:l-glutamate ligase (fbib) from mycobacterium2 tuberculosis (c-terminal domain).
29	c3eo8A	Alignment	not modelled	99.5	13	PDB header: flavoprotein Chain: A: PDB Molecule: blub-like flavoprotein; PDBTitle: crystal structure of blub-like flavoprotein (yp_001089088.1) from2 clostridium difficile 630 at 1.74 a resolution
30	c3to0A	Alignment	not modelled	99.4	18	PDB header: oxidoreductase Chain: A: PDB Molecule: iodotyrosine deiodinase 1; PDBTitle: crystal structure of mus musculus iodotyrosine deiodinase (iyd) c217a,2 c239a bound to fmn
31	c3e39A	Alignment	not modelled	99.4	19	PDB header: oxidoreductase Chain: A: PDB Molecule: putative nitroreductase; PDBTitle: crystal structure of a putative nitroreductase in complex with fmn2 (dde_0787) from desulfovibrio desulfuricans subsp. at 1.70 a3 resolution
32	c2i7hE	Alignment	not modelled	99.4	18	PDB header: oxidoreductase Chain: E: PDB Molecule: nitroreductase-like family protein; PDBTitle: crystal structure of the nitroreductase-like family protein from2 bacillus cereus
33	c2wzvB	Alignment	not modelled	99.4	19	PDB header: oxidoreductase Chain: B: PDB Molecule: fnfb protein; PDBTitle: crystal structure of the fmn-dependent nitroreductase fnfb2 from mycobacterium smegmatis
34	c5ko8B	Alignment	not modelled	99.4	14	PDB header: oxidoreductase Chain: B: PDB Molecule: nitroreductase; PDBTitle: crystal structure of haliscomenobacter hydrossis iodotyrosine2 deiodinase (iyd) bound to fmn and mono-iodotyrosine (i-tyr)
35	c3ek3A	Alignment	not modelled	99.4	15	PDB header: flavoprotein Chain: A: PDB Molecule: nitroreductase; PDBTitle: crystal structure of nitroreductase with bound fmn (yp_211706.1) from2 bacteroides fragilis ntc 9343 at 1.70 a resolution
36	d1noxa	Alignment	not modelled	99.3	15	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
37	c3pxvD	Alignment	not modelled	99.3	17	PDB header: oxidoreductase Chain: D: PDB Molecule: nitroreductase; PDBTitle: crystal structure of a nitroreductase with bound fmn (dhaf_2018) from2 desulfitobacterium hafniense dcb-2 at 2.30 a resolution
38	c3bm2B	Alignment	not modelled	99.3	12	PDB header: oxidoreductase Chain: B: PDB Molecule: protein ydja; PDBTitle: crystal structure of a minimal nitroreductase ydja from escherichia2 coli k12 with and without fmn cofactor
39	c3m5kA	Alignment	not modelled	99.3	16	PDB header: oxidoreductase Chain: A: PDB Molecule: putative nadh dehydrogenase/nad(p)h nitroreductase; PDBTitle: crystal structure of putative nadh dehydrogenase/nad(p)h2 nitroreductase (bdi_1728) from parabacteroides distasonis atcc 85033 at 1.86 a resolution
40	d1bkja	Alignment	not modelled	99.3	18	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
41	d1vfra	Alignment	not modelled	99.3	13	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
42	d1kqba	Alignment	not modelled	99.3	16	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
43	d1f5va	Alignment	not modelled	99.3	18	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
44	c3n2sD	Alignment	not modelled	99.3	19	PDB header: oxidoreductase Chain: D: PDB Molecule: nadph-dependent nitro/flavin reductase; PDBTitle: structure of nfra1 nitroreductase from b. subtilis
45	c3g14B	Alignment	not modelled	99.2	14	PDB header: oxidoreductase Chain: B: PDB Molecule: nitroreductase family protein; PDBTitle: crystal structure of nitroreductase family protein (yp_877874.1) from2 clostridium novyi nt at 1.75 a resolution
46	d1zcha1	Alignment	not modelled	99.2	16	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
47	c4eo3A	Alignment	not modelled	99.2	19	PDB header: oxidoreductase Chain: A: PDB Molecule: bacterioferritin comigratory protein/nadh dehydrogenase; PDBTitle: peroxiredoxin nitroreductase fusion enzyme
48	d1ykia1	Alignment	not modelled	99.2	11	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
49	c5hdjA	Alignment	not modelled	99.2	15	PDB header: oxidoreductase Chain: A: PDB Molecule: nfra1; PDBTitle: structure of b. megaterium nfra1
50	c3gfaB	Alignment	not modelled	99.2	13	PDB header: oxidoreductase Chain: B: PDB Molecule: putative nitroreductase; PDBTitle: crystal structure of a putative nitroreductase in complex with fmn2 (cd3205) from clostridium difficile 630 at 1.35 a resolution
51	c5heiE	Alignment	not modelled	99.2	20	PDB header: oxidoreductase Chain: E: PDB Molecule: nfra2; PDBTitle: structure of b. megaterium nfra2
52	d2b67a1	Alignment	not modelled	99.2	12	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
						PDB header: oxidoreductase

53	c3bemA		Alignment	not modelled	99.2	16	Chain: A: PDB Molecule: putative nad(p)h nitroreductase ydfn; PDBTitle: crystal structure of putative nitroreductase ydfn (2632848) from2 bacillus subtilis at 1.65 a resolution PDB header: oxidoreductase
54	c3e10B		Alignment	not modelled	99.2	14	Chain: B: PDB Molecule: putative nadh oxidase; PDBTitle: crystal structure of putative nadh oxidase (np_348178.1) from2 clostridium acetobutylicum at 1.40 a resolution PDB header: oxidoreductase
55	c3ge5A		Alignment	not modelled	99.2	20	Chain: A: PDB Molecule: putative nad(p)h:fmn oxidoreductase; PDBTitle: crystal structure of a putative nad(p)h:fmn oxidoreductase (pg0310)2 from porphyromonas gingivalis w83 at 1.70 a resolution PDB header: oxidoreductase
56	c4qlyB		Alignment	not modelled	99.1	18	Chain: B: PDB Molecule: enone reductase cla-er; PDBTitle: crystal structure of cla-er, a novel enone reductase catalyzing a key2 step of a gut-bacterial fatty acid saturation metabolism,3 biohydrogenation PDB header: oxidoreductase
57	c4dn2A		Alignment	not modelled	99.1	18	Chain: A: PDB Molecule: nitroreductase; PDBTitle: crystal structure of putative nitroreductase from geobacter2 metallireducens gs-15 PDB header: oxidoreductase
58	c3k6hB		Alignment	not modelled	99.1	13	Chain: B: PDB Molecule: nitroreductase family protein; PDBTitle: crystal structure of a nitroreductase family protein from2 agrobacterium tumefaciens str. c58 PDB header: oxidoreductase
59	c3koqC		Alignment	not modelled	99.1	13	Chain: C: PDB Molecule: nitroreductase family protein; PDBTitle: crystal structure of a nitroreductase family protein (cd3355) from2 clostridium difficile 630 at 1.58 a resolution PDB header: oxidoreductase
60	c5j6cA		Alignment	not modelled	99.1	15	Chain: A: PDB Molecule: putative reductase; PDBTitle: fmn-dependent nitroreductase (cdr20291_0767) from clostridium2 difficile r20291 PDB header: oxidoreductase
61	c6czpH		Alignment	not modelled	99.1	12	Chain: H: PDB Molecule: oxygen-insensitive nad(p)h nitroreductase; PDBTitle: 2.2 angstrom resolution crystal structure oxygen-insensitive nad(p)h-2 dependent nitroreductase nfb from vibrio vulnificus in complex with3 fmn PDB header: oxidoreductase
62	c3of4A		Alignment	not modelled	99.1	14	Chain: A: PDB Molecule: nitroreductase; PDBTitle: crystal structure of a fmn/fad- and nad(p)h-dependent nitroreductase2 (fnfb, il2077) from idiomarina loihensis l2tr at 1.90 a resolution PDB header: oxidoreductase
63	c3eofB		Alignment	not modelled	99.1	12	Chain: B: PDB Molecule: putative oxidoreductase; PDBTitle: crystal structure of putative oxidoreductase (yp_213212.1) from2 bacteroides fragilis ntc 9343 at 1.99 a resolution PDB header: oxidoreductase
64	c3qdlD		Alignment	not modelled	99.1	17	Chain: D: PDB Molecule: oxygen-insensitive nadph nitroreductase; PDBTitle: crystal structure of rdx from helicobacter pylori PDB header: oxidoreductase
65	c3gagB		Alignment	not modelled	99.0	14	Chain: B: PDB Molecule: putative nadh dehydrogenase, nadph nitroreductase; PDBTitle: crystal structure of a nitroreductase-like protein (smu_346) from2 streptococcus mutans at 1.70 a resolution PDB header: oxidoreductase
66	d2frea1		Alignment	not modelled	99.0	23	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase PDB header: oxidoreductase
67	c3ge6B		Alignment	not modelled	99.0	18	Chain: B: PDB Molecule: nitroreductase; PDBTitle: crystal structure of a putative nitroreductase in complex with fmnm2 (exig_2970) from exiguobacterium sibiricum 255-15 at 1.85 a3 resolution PDB header: oxidoreductase
68	c3gbhC		Alignment	not modelled	99.0	10	Chain: C: PDB Molecule: nad(p)h-flavin oxidoreductase; PDBTitle: crystal structure of a putative nad(p)h:fmn oxidoreductase (se1966)2 from staphylococcus epidermidis atcc 12228 at 2.00 a resolution PDB header: oxidoreductase
69	c2r01A		Alignment	not modelled	99.0	22	Chain: A: PDB Molecule: nitroreductase family protein; PDBTitle: crystal structure of a putative fmnm-dependent nitroreductase (ct0345)2 from chlorobium tepidum tIs at 1.15 a resolution PDB header: oxidoreductase
70	c2hayD		Alignment	not modelled	99.0	14	Chain: D: PDB Molecule: putative nad(p)h-flavin oxidoreductase; PDBTitle: the crystal structure of the putative nad(p)h-flavin oxidoreductase2 from streptococcus pyogenes m1 gas PDB header: oxidoreductase
71	c2wqfA		Alignment	not modelled	98.9	16	Chain: A: PDB Molecule: copper induced nitroreductase d; PDBTitle: crystal structure of the nitroreductase cind from2 lactococcus lactis in complex with fmnm PDB header: oxidoreductase
72	c2h0uA		Alignment	not modelled	98.9	21	Chain: A: PDB Molecule: nadph-flavin oxidoreductase; PDBTitle: crystal structure of nad(p)h-flavin oxidoreductase from helicobacter2 pylori PDB header: oxidoreductase
73	d2ifaa1		Alignment	not modelled	98.8	15	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase PDB header: oxidoreductase
74	c3hoiA		Alignment	not modelled	98.8	18	Chain: A: PDB Molecule: fmn-dependent nitroreductase bf3017; PDBTitle: crystal structure of fmn-dependent nitroreductase bf3017 from2 bacteroides fragilis ntc 9343 (yp_212631.1) from bacteroides3 fragilis ntc 9343 at 1.55 a resolution PDB header: oxidoreductase
75	d1ywqa1		Alignment	not modelled	98.7	16	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase PDB header: oxidoreductase
76	c4urpB		Alignment	not modelled	98.7	14	Chain: B: PDB Molecule: fatty acid repression mutant protein 2; PDBTitle: the crystal structure of nitroreductase from

						saccharomyces2 cerevisiae
77	c5j62B_	Alignment	not modelled	98.7	11	PDB header: oxidoreductase Chain: B: PDB Molecule: putative reductase; PDBTitle: fmn-dependent nitroreductase (cdr20291_0684) from clostridium2 difficile r20291
78	c3hj9A_	Alignment	not modelled	98.7	16	PDB header: oxidoreductase Chain: A: PDB Molecule: oxidoreductase; PDBTitle: crystal structure of a putative nitroreductase (reut_a1228) from2 ralstonia eutropha jmp134 at 2.00 a resolution
79	c3eo7A_	Alignment	not modelled	98.6	18	PDB header: flavoprotein Chain: A: PDB Molecule: putative nitroreductase; PDBTitle: crystal structure of a putative nitroreductase (ava_2154) from2 anabaena variabilis atcc 29413 at 1.80 a resolution
80	d1vkwa_	Alignment	not modelled	98.5	25	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: Putative nitroreductase TM1586
81	c5iq4B_	Alignment	not modelled	98.2	16	PDB header: oxidoreductase Chain: B: PDB Molecule: cyagox; PDBTitle: the structure of thcox, the first oxidase protein from the cyanobactin2 pathways
82	c2axqA_	Alignment	not modelled	98.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: saccharopine dehydrogenase; PDBTitle: apo histidine-tagged saccharopine dehydrogenase (l-glu2 forming) from saccharomyces cerevisiae
83	c1e5IA_	Alignment	not modelled	97.9	11	PDB header: oxidoreductase Chain: A: PDB Molecule: saccharopine reductase; PDBTitle: apo saccharopine reductase from magnaporthe grisea
84	c4rl6A_	Alignment	not modelled	97.8	13	PDB header: oxidoreductase Chain: A: PDB Molecule: saccharopine dehydrogenase; PDBTitle: crystal structure of the q04l03_strp2 protein from streptococcus2 pneumoniae. northeast structural genomics consortium target spr105
85	c5i78A_	Alignment	not modelled	97.5	13	PDB header: oxidoreductase Chain: A: PDB Molecule: alpha-aminoacid semialdehyde synthase, mitochondrial; PDBTitle: crystal structure of human aminoacidate semialdehyde synthase,2 saccharopine dehydrogenase domain (in nad+ bound form)
86	d1pjqa1	Alignment	not modelled	97.4	19	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Siroheme synthase N-terminal domain-like
87	c2z2vA_	Alignment	not modelled	97.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: hypothetical protein ph1688; PDBTitle: crystal structure of l-lysine dehydrogenase from2 hyperthermophilic archaeon pyrococcus horikoshii
88	c3ic5A_	Alignment	not modelled	96.8	24	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative saccharopine dehydrogenase; PDBTitle: n-terminal domain of putative saccharopine dehydrogenase from ruereria2 pomeroyi.
89	d1vi2a1	Alignment	not modelled	96.7	11	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Aminoacid dehydrogenase-like, C-terminal domain
90	c4plpB_	Alignment	not modelled	96.7	18	PDB header: transferase Chain: B: PDB Molecule: homospermidine synthase; PDBTitle: crystal structure of the homospermidine synthase (hss) from2 blastochloris viridis in complex with nad
91	c5ugjC_	Alignment	not modelled	96.6	17	PDB header: oxidoreductase Chain: C: PDB Molecule: 4-hydroxy-tetrahydrodipicolinate reductase; PDBTitle: crystal structure of htpa reductase from neisseria meningitidis
92	c2d3tB_	Alignment	not modelled	96.6	16	PDB header: lyase, oxidoreductase/transferase Chain: B: PDB Molecule: fatty oxidation complex alpha subunit; PDBTitle: fatty acid beta-oxidation multienzyme complex from2 pseudomonas fragi, form v
93	c2nloA_	Alignment	not modelled	96.6	21	PDB header: oxidoreductase Chain: A: PDB Molecule: shikimate dehydrogenase; PDBTitle: crystal structure of the quinate dehydrogenase from corynebacterium2 glutamicum
94	d1e5qa1	Alignment	not modelled	96.6	11	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Glyceraldehyde-3-phosphate dehydrogenase-like, N-terminal domain
95	c4ywjb_	Alignment	not modelled	96.6	15	PDB header: oxidoreductase Chain: B: PDB Molecule: 4-hydroxy-tetrahydrodipicolinate reductase; PDBTitle: crystal structure of 4-hydroxy-tetrahydrodipicolinate reductase (htpa2 reductase) from pseudomonas aeruginosa
96	c1vi2B_	Alignment	not modelled	96.5	11	PDB header: oxidoreductase Chain: B: PDB Molecule: shikimate 5-dehydrogenase 2; PDBTitle: crystal structure of shikimate-5-dehydrogenase with nad
97	c1pjtb_	Alignment	not modelled	96.5	20	PDB header: transferase/oxidoreductase/lyase Chain: B: PDB Molecule: siroheme synthase; PDBTitle: the structure of the ser128ala point-mutant variant of cygg, the2 multifunctional methyltransferase/dehydrogenase/ferrochelatase for3 siroheme synthesis
98	c1drwA_	Alignment	not modelled	96.5	18	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydriodipicolinate reductase; PDBTitle: escherichia coli dhpR/nhdH complex
99	c3toza_	Alignment	not modelled	96.5	7	PDB header: oxidoreductase Chain: A: PDB Molecule: shikimate dehydrogenase; PDBTitle: 2.2 angstrom crystal structure of shikimate 5-dehydrogenase from2 listeria monocytogenes in complex with nad.
100	c3mogA_	Alignment	not modelled	96.4	22	PDB header: oxidoreductase Chain: A: PDB Molecule: probable 3-hydroxybutyryl-coa dehydrogenase; PDBTitle: crystal structure of 3-hydroxybutyryl-coa dehydrogenase from2 escherichia coli k12 substr. mg1655

101	c6iaqA_		Alignment	not modelled	96.4	20	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrodipicolinate reductase n-terminus domain-containing PDBTitle: structure of amine dehydrogenase from mycobacterium smegmatis
102	c4inaA_		Alignment	not modelled	96.4	20	PDB header: oxidoreductase Chain: A: PDB Molecule: saccharopine dehydrogenase; PDBTitle: crystal structure of the q7mss8_wolsu protein from wolinella2 succinogenes. northeast structural genomics consortium target wsr35
103	c3fwnB_		Alignment	not modelled	96.3	15	PDB header: oxidoreductase Chain: B: PDB Molecule: 6-phosphogluconate dehydrogenase, decarboxylating; PDBTitle: dimeric 6-phosphogluconate dehydrogenase complexed with 6-2 phosphogluconate and 2'-monophosphoadenosine-5'-diphosphate
104	c2dc1A_		Alignment	not modelled	96.2	17	PDB header: oxidoreductase Chain: A: PDB Molecule: l-aspartate dehydrogenase; PDBTitle: crystal structure of l-aspartate dehydrogenase from2 hyperthermophilic archaeon archaeoglobus fulgidus
105	c3k6jA_		Alignment	not modelled	96.2	13	PDB header: oxidoreductase Chain: A: PDB Molecule: protein f01g10.3, confirmed by transcript evidence; PDBTitle: crystal structure of the dehydrogenase part of multifunctional enzyme 12 from c.elegans
106	c4f3yA_		Alignment	not modelled	96.1	14	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrodipicolinate reductase; PDBTitle: x-ray crystal structure of dihydrodipicolinate reductase from2 burkholderia thailandensis
107	c2hjrK_		Alignment	not modelled	96.1	18	PDB header: oxidoreductase Chain: K: PDB Molecule: malate dehydrogenase; PDBTitle: crystal structure of cryptosporidium parvum malate2 dehydrogenase
108	c5tenH_		Alignment	not modelled	96.1	13	PDB header: oxidoreductase Chain: H: PDB Molecule: 4-hydroxy-tetrahydrodipicolinate reductase; PDBTitle: structure of 4-hydroxy-tetrahydrodipicolinate reductase from vibrio2 vulnificus with 2,5 furan dicarboxylic and nadh with intact3 polyhistidine tag
109	c2x58B_		Alignment	not modelled	96.1	17	PDB header: oxidoreductase Chain: B: PDB Molecule: peroxisomal bifunctional enzyme; PDBTitle: the crystal structure of mfe1 liganded with coa
110	c1u4sA_		Alignment	not modelled	96.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: l-lactate dehydrogenase; PDBTitle: plasmodium falciparum lactate dehydrogenase complexed with 2,6-2 naphthalenedisulphonic acid
111	c6hrdD_		Alignment	not modelled	96.0	16	PDB header: oxidoreductase Chain: D: PDB Molecule: 3-hydroxybutyryl-coa dehydrogenase; PDBTitle: crystal structure of m. tuberculosis fadb2 (rv0468)
112	c4om8B_		Alignment	not modelled	95.9	15	PDB header: oxidoreductase Chain: B: PDB Molecule: 3-hydroxybutyryl-coa dehydrogenase; PDBTitle: crystal structure of 5-formyl-3-hydroxy-2-methylpyridine 4-carboxylic2 acid (fhmpc) 5-dehydrogenase, an nad+ dependent dismutase.
113	c4ei8A_		Alignment	not modelled	95.9	15	PDB header: replication Chain: A: PDB Molecule: plasmid replication protein repX; PDBTitle: crystal structure of bacillus cereus tubz, apo-form
114	c4bgvB_		Alignment	not modelled	95.8	26	PDB header: oxidoreductase Chain: B: PDB Molecule: malate dehydrogenase; PDBTitle: 1.8 a resolution structure of the malate dehydrogenase from2 picrophilus torridus in its apo form
115	c6iauB_		Alignment	not modelled	95.8	19	PDB header: oxidoreductase Chain: B: PDB Molecule: amine dehydrogenase; PDBTitle: amine dehydrogenase from cystobacter fuscus in complex with nadp+ and2 cyclohexylamine
116	c1ldbA_		Alignment	not modelled	95.8	18	PDB header: oxidoreductase(choh(d)-nad(a)) Chain: A: PDB Molecule: apo-l-lactate dehydrogenase; PDBTitle: structure determination and refinement of bacillus2 stearothermophilus lactate dehydrogenase
117	c3e18A_		Alignment	not modelled	95.8	24	PDB header: oxidoreductase Chain: A: PDB Molecule: oxidoreductase; PDBTitle: crystal structure of nad-binding protein from listeria innocua
118	c1zcjA_		Alignment	not modelled	95.8	17	PDB header: oxidoreductase Chain: A: PDB Molecule: peroxisomal bifunctional enzyme; PDBTitle: crystal structure of 3-hydroxyacyl-coa dehydrogenase
119	c4e21B_		Alignment	not modelled	95.8	17	PDB header: oxidoreductase Chain: B: PDB Molecule: 6-phosphogluconate dehydrogenase (decarboxylating); PDBTitle: the crystal structure of 6-phosphogluconate dehydrogenase from2 geobacter metallireducens
120	c1pzfD_		Alignment	not modelled	95.7	28	PDB header: oxidoreductase Chain: D: PDB Molecule: lactate dehydrogenase; PDBTitle: t.gondii ldh1 ternary complex with apad+ and oxalate