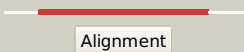

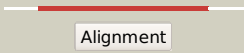

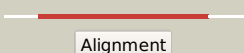

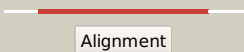











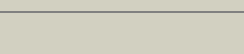





Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0392c_(ndhA)_471230_472642
Date	Tue Jul 23 14:50:46 BST 2019
Unique Job ID	c5d300f04ca5e149

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5jwcA_	 Alignment		100.0	25	PDB header: membrane protein Chain: A: PDB Molecule: nadh dehydrogenase, putative; PDBTitle: structure of ndh2 from plasmodium falciparum in complex with ryl-552
2	c4g6gB_	 Alignment		100.0	30	PDB header: oxidoreductase Chain: B: PDB Molecule: rotenone-insensitive nadh-ubiquinone oxidoreductase, PDBTitle: crystal structure of ndh with trt
3	c4gapB_	 Alignment		100.0	30	PDB header: oxidoreductase Chain: B: PDB Molecule: rotenone-insensitive nadh-ubiquinone oxidoreductase; PDBTitle: structure of the ndi1 protein from saccharomyces cerevisiae in complex2 with nad+
4	c4xdbC_	 Alignment		100.0	28	PDB header: oxidoreductase, membrane protein, flavop Chain: C: PDB Molecule: nadh dehydrogenase-like protein saouhsc_00878; PDBTitle: nadh:quinone oxidoreductase (ndh-ii) from staphylococcus aureus -2 holoprotein structure
5	c4nwaA_	 Alignment		100.0	29	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent pyridine nucleotide-disulfide oxidoreductase; PDBTitle: structure of bacterial type ii nadh dehydrogenase from2 caldalkalibacillus thermarum at 2.5a resolution
6	c3hyxC_	 Alignment		100.0	19	PDB header: oxidoreductase Chain: C: PDB Molecule: sulfide-quinone reductase; PDBTitle: 3-d x-ray structure of the sulfide:quinone oxidoreductase from aquifex2 aeolicus in complex with aurachin c
7	c3ntaA_	 Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent pyridine nucleotide-disulphide PDBTitle: structure of the shewanella loihica pv-4 nadh-dependent persulfide2 reductase
8	c3icrA_	 Alignment		100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: coenzyme a-disulfide reductase; PDBTitle: crystal structure of oxidized bacillus anthracis coadr-rhd
9	c3kpgA_	 Alignment		100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: sulfide-quinone reductase, putative; PDBTitle: crystal structure of sulfide:quinone oxidoreductase from2 acidithiobacillus ferrooxidans in complex with decylubiquinone
10	c6mp5B_	 Alignment		100.0	17	PDB header: membrane protein, oxidoreductase Chain: B: PDB Molecule: sulfide:quinone oxidoreductase, mitochondrial; PDBTitle: crystal structure of native human sulfide:quinone oxidoreductase
11	c1fcdB_	 Alignment		100.0	20	PDB header: electron transport(flavocytochrome) Chain: B: PDB Molecule: flavocytochrome c sulfide dehydrogenase (flavin- PDBTitle: the structure of flavocytochrome c sulfide dehydrogenase2 from a purple phototrophic bacterium chromatium vinosum at3 2.5 angstroms resolution

12	c5n1tA_	Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: flavin-binding subunit of sulfide dehydrogenase; PDBTitle: crystal structure of complex between flavocytochrome c and copper2 chaperone copc from t. paradoxus
13	c1yqzA_	Alignment		100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: coenzyme a disulfide reductase; PDBTitle: structure of coenzyme a-disulfide reductase from2 staphylococcus aureus refined at 1.54 angstrom resolution
14	c3oc4A_	Alignment		100.0	24	PDB header: oxidoreductase Chain: A: PDB Molecule: oxidoreductase, pyridine nucleotide-disulfide family; PDBTitle: crystal structure of a pyridine nucleotide-disulfide family2 oxidoreductase from the enterococcus faecalis v583
15	c3iwaA_	Alignment		100.0	23	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent pyridine nucleotide-disulphide PDBTitle: crystal structure of a fad-dependent pyridine nucleotide-disulphide2 oxidoreductase from desulfovibrio vulgaris
16	c2bcpA_	Alignment		100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh oxidase; PDBTitle: structural analysis of streptococcus pyogenes nadh oxidase: c44s nox2 with azide
17	c2cduB_	Alignment		100.0	15	PDB header: oxidoreductase Chain: B: PDB Molecule: nadh oxidase; PDBTitle: the crystal structure of water-forming nad(p)h oxidase from2 lactobacillus sanfranciscensis
18	c3kd9B_	Alignment		100.0	17	PDB header: oxidoreductase Chain: B: PDB Molecule: coenzyme a disulfide reductase; PDBTitle: crystal structure of pyridine nucleotide disulfide oxidoreductase from2 pyrococcus horikoshii
19	c1gv4A_	Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: programed cell death protein 8; PDBTitle: murine apoptosis-inducing factor (aif)
20	c1nhqA_	Alignment		100.0	18	PDB header: oxidoreductase (h2o2(a)) Chain: A: PDB Molecule: nadh peroxidase; PDBTitle: crystallographic analyses of nadh peroxidase cys42ala and cys42ser2 mutants: active site structure, mechanistic implications, and an3 unusual environment of arg303
21	c2v6oA_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin glutathione reductase; PDBTitle: structure of schistosoma mansoni thioredoxin-glutathione2 reductase (smtgr)
22	c5w1jA_	Alignment	not modelled	100.0	19	PDB header: signaling protein Chain: A: PDB Molecule: thioredoxin glutathione reductase; PDBTitle: echinococcus granulosus thioredoxin glutathione reductas (egtgr)
23	c3cqdB_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: pyridine nucleotide-disulfide oxidoreductase, class i; PDBTitle: pyridine nucleotide complexes with bacillus anthracis coenzyme a-2 disulfide reductase: a structural analysis of dual nad(p)h3 specificity
24	c2v3aA_	Alignment	not modelled	100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: rubredoxin reductase; PDBTitle: crystal structure of rubredoxin reductase from pseudomonas2 aeruginosa.
25	c3lxdA_	Alignment	not modelled	100.0	23	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent pyridine nucleotide-disulphide PDBTitle: crystal structure of ferredoxin reductase arr from novosphingobium2 aromaticivorans
26	c3fg2P_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: P: PDB Molecule: putative rubredoxin reductase; PDBTitle: crystal structure of ferredoxin reductase for the cyp199a2 system from2 rhodospseudomonas palustris
27	c2gr2A_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin reductase; PDBTitle: crystal structure of ferredoxin reductase, bpha4 (oxidized form)
28	c5er0D_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: D: PDB Molecule: nadh oxidase; PDBTitle: water-forming nadh oxidase from lactobacillus brevis

					(lbnx)
29	c1xdia_	Alignment	not modelled	100.0	18 PDB header: unknown function Chain: A: PDB Molecule: rv3303c-lpda; PDBTitle: crystal structure of lpda (rv3303c) from mycobacterium tuberculosis
30	c5jciA_	Alignment	not modelled	100.0	20 PDB header: hydrolase Chain: A: PDB Molecule: os09g0567300 protein; PDBTitle: structure and catalytic mechanism of monodehydroascorbate reductase,2 mdhar, from oryza sativa l. japonica
31	c6du7C_	Alignment	not modelled	100.0	17 PDB header: oxidoreductase Chain: C: PDB Molecule: glutathione reductase; PDBTitle: glutathione reductase from streptococcus pneumoniae
32	c1tytA_	Alignment	not modelled	100.0	15 PDB header: oxidoreductase Chain: A: PDB Molecule: trypanothione reductase, oxidized form; PDBTitle: crystal and molecular structure of crithidia fasciculata2 trypanothione reductase at 2.6 angstroms resolution
33	c1xhcA_	Alignment	not modelled	100.0	22 PDB header: oxidoreductase Chain: A: PDB Molecule: nadh oxidase /nitrite reductase; PDBTitle: nadh oxidase /nitrite reductase from pyrococcus furiosus pfu-1140779-2 001
34	c2eq7B_	Alignment	not modelled	100.0	19 PDB header: oxidoreductase Chain: B: PDB Molecule: 2-oxoglutarate dehydrogenase e3 component; PDBTitle: crystal structure of lipamide dehydrogenase from thermus thermophilus2 hb8 with psbdo
35	c1q1wA_	Alignment	not modelled	100.0	21 PDB header: oxidoreductase Chain: A: PDB Molecule: putidaredoxin reductase; PDBTitle: crystal structure of putidaredoxin reductase from2 pseudomonas putida
36	c1m6iA_	Alignment	not modelled	100.0	18 PDB header: oxidoreductase Chain: A: PDB Molecule: programmed cell death protein 8; PDBTitle: crystal structure of apoptosis inducing factor (aif)
37	c1zx9A_	Alignment	not modelled	100.0	20 PDB header: oxidoreductase Chain: A: PDB Molecule: mercuric reductase; PDBTitle: crystal structure of tn501 mera
38	c3ef6A_	Alignment	not modelled	100.0	24 PDB header: oxidoreductase Chain: A: PDB Molecule: toluene 1,2-dioxygenase system ferredoxin--nad(+) PDBTitle: crystal structure of toluene 2,3-dioxygenase reductase
39	c1ojtA_	Alignment	not modelled	100.0	18 PDB header: oxidoreductase Chain: A: PDB Molecule: surface protein; PDBTitle: structure of dihydrolipoamide dehydrogenase
40	c1lvA_	Alignment	not modelled	100.0	19 PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: the refined structure of pseudomonas putida lipamide dehydrogenase2 complexed with nad+ at 2.45 angstroms resolution
41	c3urhB_	Alignment	not modelled	100.0	19 PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: crystal structure of a dihydrolipoamide dehydrogenase from2 sinorhizobium meliloti 1021
42	c2a8xA_	Alignment	not modelled	100.0	15 PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: crystal structure of lipamide dehydrogenase from2 mycobacterium tuberculosis
43	c4dnaA_	Alignment	not modelled	100.0	15 PDB header: oxidoreductase Chain: A: PDB Molecule: probable glutathione reductase; PDBTitle: crystal structure of putative glutathione reductase from sinorhizobium2 meliloti 1021
44	c3h8lA_	Alignment	not modelled	100.0	18 PDB header: oxidoreductase Chain: A: PDB Molecule: nadh oxidase; PDBTitle: the first x-ray structure of a sulfide:quinone2 oxidoreductase: insights into sulfide oxidation mechanism
45	c3ic9D_	Alignment	not modelled	100.0	17 PDB header: oxidoreductase Chain: D: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: the structure of dihydrolipoamide dehydrogenase from colwellia2 psychrerythraea 34h.
46	c2r9zB_	Alignment	not modelled	100.0	18 PDB header: oxidoreductase Chain: B: PDB Molecule: glutathione amide reductase; PDBTitle: glutathione amide reductase from chromatium gracile
47	c5v36A_	Alignment	not modelled	100.0	15 PDB header: hydrolase,oxidoreductase Chain: A: PDB Molecule: glutathione reductase; PDBTitle: 1.88 angstrom resolution crystal structure of glutathione reductase2 from streptococcus mutans ua159 in complex with fad
48	c2w0hA_	Alignment	not modelled	100.0	15 PDB header: oxidoreductase Chain: A: PDB Molecule: trypanothione reductase; PDBTitle: x ray structure of leishmania infantum trypanothione2 reductase in complex with antimony and nadph
49	c1dxlC_	Alignment	not modelled	100.0	21 PDB header: oxidoreductase Chain: C: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: dihydrolipoamide dehydrogenase of glycine decarboxylase2 from pisum sativum
50	c1bwcA_	Alignment	not modelled	100.0	18 PDB header: oxidoreductase Chain: A: PDB Molecule: protein (glutathione reductase); PDBTitle: structure of human glutathione reductase complexed with ajoene2 inhibitor and subversive substrate
51	c4ywoA_	Alignment	not modelled	100.0	19 PDB header: oxidoreductase Chain: A: PDB Molecule: mercuric reductase; PDBTitle: mercuric reductase from metallosphaera sedula
52	c4jdrB_	Alignment	not modelled	100.0	20 PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: dihydrolipoamide dehydrogenase of pyruvate dehydrogenase from2 escherichia coli
53	c6aonB_	Alignment	not modelled	100.0	19 PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: 1.72 angstrom resolution crystal structure of 2-oxoglutarate2 dehydrogenase complex subunit dihydrolipoamide dehydrogenase from3 bordetella pertussis in complex with fad PDB header: oxidoreductase

54	c6bz0C_	Alignment	not modelled	100.0	20	Chain: C; PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: 1.83 angstrom resolution crystal structure of dihydrolipoyl2 dehydrogenase from acinetobacter baumannii in complex with fad.
55	c2qaeA_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: A; PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: crystal structure analysis of trypanosoma cruzi lipoamide2 dehydrogenase
56	c2eq8E_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: E; PDB Molecule: pyruvate dehydrogenase complex, dihydrolipoamide PDBTitle: crystal structure of lipoamide dehydrogenase from thermus thermophilus2 hb8 with psbdp
57	c1v59B_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: B; PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: crystal structure of yeast lipoamide dehydrogenase2 complexed with nad+
58	c1geuA_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase(flavoenzyme) Chain: A; PDB Molecule: glutathione reductase; PDBTitle: anatomy of an engineered nad-binding site
59	c1ebdB_	Alignment	not modelled	100.0	19	PDB header: complex (oxidoreductase/transferase) Chain: B; PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: dihydrolipoamide dehydrogenase complexed with the binding2 domain of the dihydrolipoamide acetylase
60	c4j56A_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: A; PDB Molecule: thioredoxin reductase 2; PDBTitle: structure of plasmodium falciparum thioredoxin reductase-thioredoxin2 complex
61	c1lpfB_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: B; PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: three-dimensional structure of lipoamide dehydrogenase from2 pseudomonas fluorescens at 2.8 angstroms resolution.3 analysis of redox and thermostability properties
62	c6b4oB_	Alignment	not modelled	100.0	17	PDB header: hydrolase Chain: B; PDB Molecule: glutathione reductase; PDBTitle: 1.73 angstrom resolution crystal structure of glutathione reductase2 from enterococcus faecalis in complex with fad
63	c1zmcG_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: G; PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: crystal structure of human dihydrolipoamide dehydrogenase2 complexed to nad+
64	c3o0hA_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A; PDB Molecule: glutathione reductase; PDBTitle: crystal structure of glutathione reductase from bartonella henselae
65	c2c3dB_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: B; PDB Molecule: 2-oxopropyl-com reductase; PDBTitle: 2.15 angstrom crystal structure of 2-ketopropyl coenzyme m2 oxidoreductase carboxylase with a coenzyme m disulfide3 bound at the active site
66	c1ndaD_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: D; PDB Molecule: trypanothione oxidoreductase; PDBTitle: the structure of trypanosoma cruzi trypanothione reductase in the2 oxidized and nadph reduced state
67	c5x1yC_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: C; PDB Molecule: mercuric reductase; PDBTitle: structure of mercuric reductase from lysinibacillus sphaericus
68	c3dgzA_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: A; PDB Molecule: thioredoxin reductase 2; PDBTitle: crystal structure of mouse mitochondrial thioredoxin reductase, c-2 terminal 3-residue truncation
69	c2cfyB_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B; PDB Molecule: thioredoxin reductase 1; PDBTitle: crystal structure of human thioredoxin reductase 1
70	c1zkgA_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: A; PDB Molecule: thioredoxin reductase 2, mitochondrial; PDBTitle: crystal structure of mouse thioredoxin reductase type 2
71	c2hqmB_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B; PDB Molecule: glutathione reductase; PDBTitle: crystal structure of glutathione reductase glr1 from the yeast2 saccharomyces cerevisiae
72	c2nvkX_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: X; PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of thioredoxin reductase from drosophila2 melanogaster
73	c4b1bB_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: B; PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of plasmodium falciparum oxidised2 thioredoxin reductase at 2.9 angstrom
74	c1hyuA_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A; PDB Molecule: alkyl hydroperoxide reductase subunit f; PDBTitle: crystal structure of intact ahpf
75	c3l8kB_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: B; PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: crystal structure of a dihydrolipoyl dehydrogenase from sulfobolbus2 solfataricus
76	c3kja_	Alignment	not modelled	100.0	21	PDB header: oxidoreductase Chain: A; PDB Molecule: nad(fad)-dependent dehydrogenase, nirb-family (n-terminal) PDBTitle: crystal structure of nadh:rubredoxin oxidoreductase from clostridium2 acetobutylicum
77	c6qkgB_	Alignment	not modelled	100.0	19	PDB header: flavoprotein Chain: B; PDB Molecule: ncr a; PDBTitle: 2-naphthoyl-coa reductase(ncr)
78	c1gthD_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: D; PDB Molecule: dihydropyrimidine dehydrogenase; PDBTitle: dihydropyrimidine dehydrogenase (dpd) from pig, ternary complex with2 nadph and 5-iodouracil

79	c4y1fD_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: D: PDB Molecule: dihydropyrimidine dehydrogenase subunit a; PDBTitle: insights into flavin-based electron bifurcation via the nadh-dependent2 reduced ferredoxin-nadp oxidoreductase structure
80	c3k30B_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: B: PDB Molecule: histamine dehydrogenase; PDBTitle: histamine dehydrogenase from nocardioles simplex
81	c1djnB_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: B: PDB Molecule: trimethylamine dehydrogenase; PDBTitle: structural and biochemical characterization of recombinant wild type2 trimethylamine dehydrogenase from methylophilus methylotrophus (sp.3 w3a1)
82	c1onfA_	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: A: PDB Molecule: glutathione reductase; PDBTitle: crystal structure of plasmodium falciparum glutathione reductase
83	c5jcaL_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: L: PDB Molecule: nadh-dependent ferredoxin:nadp oxidoreductase (fnfi) PDBTitle: nadp(h) bound nadh-dependent ferredoxin:nadp oxidoreductase (fnfi)2 from pyrococcus furiosus
84	c1ps9A_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: 2,4-dienoyl-coa reductase; PDBTitle: the crystal structure and reaction mechanism of e. coli 2,4-dienoyl2 coa reductase
85	c2vdcl_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: I: PDB Molecule: glutamate synthase [nadph] small chain; PDBTitle: the 9.5 a resolution structure of glutamate synthase from cryo-2 electron microscopy and its oligomerization behavior in solution:3 functional implications.
86	c6de6B_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: histamine dehydrogenase; PDBTitle: 2.1 a resolution structure of histamine dehydrogenase from rhizobium2 sp. 4-9
87	c2zwbA_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of thioredoxin reductase-like protein from thermus2 thermophilus hb8
88	c5yggB_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin--nadp reductase; PDBTitle: crystal structure of ferredoxin nadp+ oxidoreductase from2 rhodopseudomonas palustris
89	c5twcA_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin--nadp reductase; PDBTitle: oxidoreductase iruo in the oxidized form
90	c6garB_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin--nadp reductase; PDBTitle: crystal structure of oxidised ferredoxin/flavodoxin nadp+2 oxidoreductase 1 (fnr1) from bacillus cereus
91	c5w4cA_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of thioredoxin reductase from cryptococcus2 neoformans in complex with fad (fo conformation)
92	c4fk1D_	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: D: PDB Molecule: putative thioredoxin reductase; PDBTitle: crystal structure of putative thioredoxin reductase trxb from bacillus2 anthracis
93	c1vdcA_	Alignment	not modelled	100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh dependent thioredoxin reductase; PDBTitle: structure of nadp dependent thioredoxin reductase
94	c5odeA_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: gll2934 protein; PDBTitle: structure of a novel oxidoreductase from gloebacter violaceus
95	c3d8xB_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase 1; PDBTitle: crystal structure of saccharomyces cerevisiae ndpph dependent2 thioredoxin reductase 1
96	c3ab1B_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin--nadp reductase; PDBTitle: crystal structure of ferredoxin nadp+ oxidoreductase
97	c4ntcA_	Alignment	not modelled	100.0	12	PDB header: oxidoreductase Chain: A: PDB Molecule: glit; PDBTitle: crystal structure of glit
98	c3r9uA_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: thioredoxin-disulfide reductase from campylobacter jejuni.
99	c5jriA_	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: pyridine nucleotide-disulfide oxidoreductase; PDBTitle: structure of an oxidoreductase semet-labelled from synechocystis sp.2 pcc6803
100	c1cjcA_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: protein (adrenodoxin reductase); PDBTitle: structure of adrenodoxin reductase of mitochondrial p450 systems
101	c4gcmB_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of a thioredoxine reductase (trxb) from2 staphylococcus aureus subsp. aureus mu50 at 1.80 a resolution
102	c5niiB_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of the atypical thioredoxin reductase tri from2 desulfovibrio vulgaris hildenborough
103	c4a5IB_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of the thioredoxin reductase from

					entamoeba2 histolytica
104	c4jngA_	Alignment	not modelled	100.0	20 PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of a thioredoxin reductase from brucella melitensis
105	c4ntdA_	Alignment	not modelled	100.0	17 PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of hlmi
106	c4a9wB_	Alignment	not modelled	100.0	14 PDB header: oxidoreductase Chain: B: PDB Molecule: monooxygenase; PDBTitle: flavin-containing monooxygenase from stentrophomonas maltophilia
107	c1lqtB_	Alignment	not modelled	100.0	20 PDB header: oxidoreductase Chain: B: PDB Molecule: fprra; PDBTitle: a covalent modification of nadp+ revealed by the atomic resolution2 structure of fprra, a mycobacterium tuberculosis oxidoreductase
108	c5xhuA_	Alignment	not modelled	100.0	16 PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin--nadp reductase; PDBTitle: crystal structure of ycgf from bacillus subtilis
109	c5uwvA_	Alignment	not modelled	100.0	18 PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: the crystal structure of thioredoxin reductase from streptococcus2 pyogenes mgas5005
110	c3d1cA_	Alignment	not modelled	100.0	14 PDB header: oxidoreductase Chain: A: PDB Molecule: flavin-containing putative monooxygenase; PDBTitle: crystal structure of flavin-containing putative monooxygenase2 (np_373108.1) from staphylococcus aureus mu50 at 2.40 a resolution
111	c6bpyA_	Alignment	not modelled	100.0	21 PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: aspergillus fumigatus thioredoxin reductase
112	c3f8rD_	Alignment	not modelled	100.0	19 PDB header: oxidoreductase Chain: D: PDB Molecule: thioredoxin reductase (trxb-3); PDBTitle: crystal structure of sulfolobus solfataricus thioredoxin2 reductase b3 in complex with two nadp molecules
113	c5m5jA_	Alignment	not modelled	100.0	20 PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: thioredoxin reductase from giardia duodenalis
114	c6gndG_	Alignment	not modelled	100.0	17 PDB header: oxidoreductase Chain: G: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of the complex of a ferredoxin-flavin thioredoxin2 reductase and a thioredoxin from clostridium acetobutylicum at 2.9 a3 resolution
115	c5j60B_	Alignment	not modelled	100.0	18 PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: structure of a thioredoxin reductase from gloeobacter violaceus
116	c2q0lA_	Alignment	not modelled	100.0	16 PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: helicobacter pylori thioredoxin reductase reduced by sodium dithionite2 in complex with nadp+
117	c5cqfA_	Alignment	not modelled	100.0	16 PDB header: oxidoreductase Chain: A: PDB Molecule: l-lysine 6-monooxygenase; PDBTitle: crystal structure of l-lysine 6-monooxygenase from pseudomonas2 syringae
118	c6gncA_	Alignment	not modelled	100.0	18 PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of a ferredoxin-flavin thioredoxin reductase from2 clostridium acetobutylicum at 1.64 a resolution
119	c4jnaA_	Alignment	not modelled	100.0	19 PDB header: oxidoreductase/oxidoreductase inhibitor Chain: A: PDB Molecule: deph; PDBTitle: crystal structure of the deph complex with dimethyl-fk228
120	c5o8rA_	Alignment	not modelled	100.0	17 PDB header: biosynthetic protein Chain: A: PDB Molecule: l-lysine 6-monooxygenase involved in desferrioxamine PDBTitle: the crystal structure of dfoa bound to fad and nadp; the2 desferrioxamine biosynthetic pathway cadaverine monooxygenase from3 the fire blight disease pathogen erwinia amylovora