








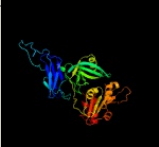














Phyre2

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Description	RVBD1937 (-) _2188503_2191022
Date	Mon Aug 5 13:25:03 BST 2019
Unique Job ID	6c9c003bd0b4da9c

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1krhA_	 Alignment		100.0	35	PDB header: oxidoreductase Chain: A; PDB Molecule: benzoate 1,2-dioxygenase reductase; PDBTitle: x-ray structure of benzoate dioxygenase reductase
2	c4p6vF_	 Alignment		100.0	23	PDB header: oxidoreductase Chain: F; PDB Molecule: na(+)-translocating nadh-quinone reductase subunit f; PDBTitle: crystal structure of the na+-translocating nadh: ubiquinone2 oxidoreductase from vibrio cholerae
3	c5ogxA_	 Alignment		100.0	29	PDB header: oxidoreductase Chain: A; PDB Molecule: cytochrome p450 reductase; PDBTitle: crystal structure of amycolatopsis cytochrome p450 reductase gcob.
4	c4wqmA_	 Alignment		100.0	23	PDB header: oxidoreductase Chain: A; PDB Molecule: toluene-4-monooxygenase electron transfer component; PDBTitle: structure of the toluene 4-monooxygenase nadh oxidoreductase t4mof,2 k270s k271s variant
5	c6mv2A_	 Alignment		100.0	20	PDB header: oxidoreductase Chain: A; PDB Molecule: cytochrome b5 reductase 4; PDBTitle: 2.05a resolution structure of the cs-b5r domains of human ncb5or2 (nadp+ form)
6	c1gvhA_	 Alignment		100.0	24	PDB header: oxidoreductase Chain: A; PDB Molecule: flavoheмоprotein; PDBTitle: the x-ray structure of ferric escherichia coli2 flavoheмоprotein reveals an unsuspected geometry of the3 distal heme pocket
7	c2r6hC_	 Alignment		100.0	22	PDB header: oxidoreductase Chain: C; PDB Molecule: nadh:ubiquinone oxidoreductase, na translocating, f PDBTitle: crystal structure of the domain comprising the nad binding and the fad2 binding regions of the nadh:ubiquinone oxidoreductase, na3 translocating, f subunit from porphyromonas gingivalis
8	c6o0aA_	 Alignment		100.0	18	PDB header: oxidoreductase Chain: A; PDB Molecule: flavoheмоglobin; PDBTitle: crystal structure of flavoheмоglobin from malassezia yamatoensis with2 bound fad and heme determined by iron sad phasing
9	c4g1bB_	 Alignment		100.0	24	PDB header: oxidoreductase Chain: B; PDB Molecule: flavoheмоglobin; PDBTitle: x-ray structure of yeast flavoheмоglobin in complex with econazole
10	c1cqxB_	 Alignment		100.0	24	PDB header: lipid binding protein Chain: B; PDB Molecule: flavoheмоprotein; PDBTitle: crystal structure of the flavoheмоglobin from alcaligenes eutrophus at2 1.75 a resolution
11	c4u9uB_	 Alignment		100.0	23	PDB header: oxidoreductase Chain: B; PDB Molecule: na(+)-translocating nadh-quinone reductase subunit f; PDBTitle: crystal structure of nqr fad-binding domain from vibrio cholerae

12	c1tvcA_	Alignment		100.0	33	PDB header: oxidoreductase Chain: A: PDB Molecule: methane monooxygenase component c; PDBTitle: fad and nadh binding domain of methane monooxygenase2 reductase from methylococcus capsulatus (bath)
13	c5ylyB_	Alignment		100.0	24	PDB header: flavoprotein Chain: B: PDB Molecule: nitrate reductase; PDBTitle: crystal structure of the cytochrome b5 reductase domain of ulva2 prolifera nitrate reductase
14	c1fncA_	Alignment		100.0	21	PDB header: oxidoreductase (nadp+(a),ferredoxin(a)) Chain: A: PDB Molecule: ferredoxin-nadp+ reductase; PDBTitle: refined crystal structure of spinach ferredoxin reductase2 at 1.7 angstroms resolution: oxidized, reduced, and 2'-3 phospho-5'-amp bound states
15	c1qgyA_	Alignment		100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin--nadp+ reductase; PDBTitle: ferredoxin:nadp+ reductase mutant with lys 75 replaced by glu (k75e)
16	c4eh1A_	Alignment		100.0	24	PDB header: oxidoreductase Chain: A: PDB Molecule: flavohepotein; PDBTitle: crystal structure of the flavohem-like-fad/nad binding domain of2 nitric oxide dioxygenase from vibrio cholerae o1 biovar el tor
17	c2eixA_	Alignment		100.0	23	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh-cytochrome b5 reductase; PDBTitle: the structure of physarum polycephalum cytochrome b5 reductase
18	c1qfjD_	Alignment		100.0	28	PDB header: oxidoreductase Chain: D: PDB Molecule: protein (flavin reductase); PDBTitle: crystal structure of nad(p)h:flavin oxidoreductase from escherichia2 coli
19	c2ok8D_	Alignment		100.0	19	PDB header: oxidoreductase Chain: D: PDB Molecule: putative ferredoxin--nadp reductase; PDBTitle: ferredoxin-nadp+ reductase from plasmodium falciparum
20	c2b5oA_	Alignment		100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin--nadp reductase; PDBTitle: ferredoxin-nadp reductase
21	c1jb9A_	Alignment	not modelled	100.0	23	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin-nadp reductase; PDBTitle: crystal structure of the ferredoxin:nadp+ reductase from maize root at2 1.7 angstroms
22	c2rc5D_	Alignment	not modelled	100.0	24	PDB header: oxidoreductase Chain: D: PDB Molecule: ferredoxin-nadp reductase; PDBTitle: refined structure of fnr from leptospira interrogans
23	c1umkA_	Alignment	not modelled	100.0	27	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh-cytochrome b5 reductase; PDBTitle: the structure of human erythrocyte nadh-cytochrome b52 reductase
24	c2piaA_	Alignment	not modelled	100.0	23	PDB header: reductase Chain: A: PDB Molecule: phthalate dioxygenase reductase; PDBTitle: phthalate dioxygenase reductase: a modular structure for electron2 transfer from pyridine nucleotides to [2fe-2s]
25	c3fpkB_	Alignment	not modelled	100.0	28	PDB header: flavoprotein, oxidoreductase Chain: B: PDB Molecule: ferredoxin-nadp reductase; PDBTitle: crystal structure of ferredoxin-nadp reductase from salmonella2 typhimurium
26	c1a8pA_	Alignment	not modelled	100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: nadph\ferredoxin oxidoreductase; PDBTitle: ferredoxin reductase from azotobacter vinelandii
27	c2bgjB_	Alignment	not modelled	100.0	23	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin-nadp(h) reductase; PDBTitle: x-ray structure of the ferredoxin-nadp(h) reductase from rhodobacter2 capsulatus at 2.1 angstroms
28	c4b4dA_	Alignment	not modelled	100.0	24	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin-nadp reductase; PDBTitle: crystal structure of fad-containing ferredoxin-nadp reductase from2 xanthomonas axonopodis pv. citri
						PDB header: hydrolase

29	c3l3A_	Alignment	not modelled	100.0	17	Chain: A: PDB Molecule: alkylhalidase cmls; PDBTitle: crystal structure of cmls, a flavin-dependent halogenase
30	c5tr9A_	Alignment	not modelled	100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin-nadp reductase; PDBTitle: crystal structure of a ferredoxin nadp+ reductase from neisseria2 gonorrhoeae with bound fad
31	c5fn0C_	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: C: PDB Molecule: kynurenine 3-monoxygenase; PDBTitle: crystal structure of pseudomonas fluorescens kynurenine-3-2 monoxygenase (kmo) in complex with gsk180
32	c5thxA_	Alignment	not modelled	100.0	23	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin--nadp reductase; PDBTitle: crystal structure of a ferredoxin nadp+ reductase from neisseria2 gonorrhoeae with bound nadp and fad
33	c3e1tA_	Alignment	not modelled	100.0	17	PDB header: flavoprotein Chain: A: PDB Molecule: halogenase; PDBTitle: structure and action of the myxobacterial chondrochloren2 halogenase cndh, a new variant of fad-dependent halogenases
34	c2dkhA_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: 3-hydroxybenzoate hydroxylase; PDBTitle: crystal structure of 3-hydroxybenzoate hydroxylase from comamonas2 testosteronei, in complex with the substrate
35	c6c6rA_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase/oxidoreductase inhibitor Chain: A: PDB Molecule: squalene monoxygenase; PDBTitle: human squalene epoxidase (sqle, squalene monoxygenase) structure with2 fad
36	c4yhba_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: iron-chelator utilization protein; PDBTitle: crystal structure of a siderophore utilization protein from t. fusca
37	c6gehA_	Alignment	not modelled	100.0	17	PDB header: metal transport Chain: A: PDB Molecule: fad-binding 9, siderophore-interacting domain protein; PDBTitle: structure and reactivity of a siderophore-interacting protein from the2 marine bacterium shewanella reveals unanticipated functional3 versatility.
38	c6bznA_	Alignment	not modelled	100.0	14	PDB header: flavoprotein Chain: A: PDB Molecule: halogenase pltm; PDBTitle: crystal structure of halogenase pltm
39	c3nixF_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: F: PDB Molecule: flavoprotein/dehydrogenase; PDBTitle: crystal structure of flavoprotein/dehydrogenase from cytophaga2 hutchinsonii. northeast structural genomics consortium target chr43.
40	c5o0xA_	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: putative ferric reductase; PDBTitle: crystal structure of dehydrogenase domain of cylindrospermum stagnale2 nadph-oxidase 5 (nox5)
41	c2qa2A_	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: polyketide oxygenase cabe; PDBTitle: crystal structure of cabe, an aromatic hydroxylase from angucycline2 biosynthesis, determined to 2.7 a resolution
42	c1cneA_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: nitrate reductase; PDBTitle: structural studies on corn nitrate reductase: refined2 structure of the cytochrome b reductase fragment at 2.53 angstroms, its adp complex and an active site mutant and4 modeling of the cytochrome b domain
43	c4k2xB_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase, flavoprotein Chain: B: PDB Molecule: polyketide oxygenase/hydroxylase; PDBTitle: oxys anhydrotetracycline hydroxylase from streptomyces rimosus
44	c5jcaS_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: S: PDB Molecule: nadh-dependent ferredoxin:nadp oxidoreductase (nfni) PDBTitle: nadp(h) bound nadh-dependent ferredoxin:nadp oxidoreductase (nfni)2 from pyrococcus furiosus
45	c5kowA_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: pentachlorophenol 4-monoxygenase; PDBTitle: structure of rifampicin monoxygenase
46	c4f7dA_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin--nadp reductase; PDBTitle: crystal structure of ferredoxin-nadp reductase from burkholderia2 thailandensis e264
47	c5bukA_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: fadh2-dependent halogenase; PDBTitle: structure of flavin-dependent chlorinase mpy16
48	c5dbjA_	Alignment	not modelled	100.0	19	PDB header: flavoprotein Chain: A: PDB Molecule: fadh2-dependent halogenase plta; PDBTitle: crystal structure of halogenase plta
49	c5xgvB_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: pyre3; PDBTitle: the structure of diels-alderase pyre3 in the biosynthetic pathway of2 pyrroindomycins
50	c5wgyA_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase/oxidoreductase inhibitor Chain: A: PDB Molecule: flavin-dependent halogenase; PDBTitle: crystal structure of mala' c112s/c128s, malbrancheamide b complex
51	c6j0zC_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: C: PDB Molecule: putative angucycline-like polyketide oxygenase; PDBTitle: crystal structure of alpk
52	c1phhA_	Alignment	not modelled	100.0	11	PDB header: oxidoreductase Chain: A: PDB Molecule: p-hydroxybenzoate hydroxylase; PDBTitle: crystal structure of p-hydroxybenzoate hydroxylase complexed with its2 reaction product 3,4-dihydroxybenzoate
53	c2qa1A_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: polyketide oxygenase pgae; PDBTitle: crystal structure of pgae, an aromatic hydroxylase

						involved in2 angucycline biosynthesis
54	c3fmwC_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: C: PDB Molecule: oxygenase; PDBTitle: the crystal structure of mtmoiv, a baeyer-villiger monooxygenase from2 the mithramycin biosynthetic pathway in streptomyces argillaceus.
55	c1ep3B_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydroorotate dehydrogenase b (pyrk subunit); PDBTitle: crystal structure of lactococcus lactis dihydroorotate dehydrogenase2 b. data collected under cryogenic conditions.
56	c1pn0A_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: phenol 2-monooxygenase; PDBTitle: phenol hydroxylase from trichosporon cutaneum
57	c4ylfA_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydroorotate dehydrogenase b (nad(+)), electron transfer PDBTitle: insights into flavin-based electron bifurcation via the nadh-dependent2 reduced ferredoxin-nadp oxidoreductase structure
58	c4j33B_	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: B: PDB Molecule: kynurenine 3-monooxygenase; PDBTitle: crystal structure of kynurenine 3-monooxygenase (kmo-394)
59	c6k2IA_	Alignment	not modelled	100.0	20	PDB header: flavoprotein Chain: A: PDB Molecule: siderophore-interacting protein; PDBTitle: crystal structure of the siderophore-interacting protein sips from2 aeromonas hydrophila
60	c3ihgA_	Alignment	not modelled	100.0	16	PDB header: flavoprotein, oxidoreductase Chain: A: PDB Molecule: rdme; PDBTitle: crystal structure of a ternary complex of aklavinone-11 hydroxylase2 with fad and aklavinone
61	c5tuIA_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: A: PDB Molecule: tetracycline destructase tet(55); PDBTitle: crystal structure of tetracycline destructase tet(55)
62	c5vj7B_	Alignment	not modelled	100.0	12	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin-nadp(+) reductase subunit alpha; PDBTitle: ferredoxin nadp oxidoreductase (xfn)
63	c3gmbB_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: B: PDB Molecule: 2-methyl-3-hydroxypyridine-5-carboxylic acid oxygenase; PDBTitle: crystal structure of 2-methyl-3-hydroxypyridine-5-carboxylic acid2 oxygenase
64	c5bulA_	Alignment	not modelled	100.0	15	PDB header: hydrolase Chain: A: PDB Molecule: flavin-dependent halogenase triple mutant; PDBTitle: structure of flavin-dependent brominase bmp2 triple mutant y302s f306v2 a345w
65	c3allA_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: 2-methyl-3-hydroxypyridine-5-carboxylic acid oxygenase; PDBTitle: crystal structure of 2-methyl-3-hydroxypyridine-5-carboxylic acid2 oxygenase, mutant y270a
66	c2gpiA_	Alignment	not modelled	100.0	17	PDB header: fad-binding protein Chain: A: PDB Molecule: siderophore-interacting protein; PDBTitle: crystal structure of a siderophore-interacting protein (sputcn32_0076)2 from shewanella putrefaciens cn-32 at 2.20 a resolution
67	c5evyX_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: X: PDB Molecule: salicylate hydroxylase; PDBTitle: salicylate hydroxylase substrate complex
68	c3ihmB_	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: B: PDB Molecule: styrene monooxygenase a; PDBTitle: structure of the oxygenase component of a pseudomonas styrene2 monooxygenase
69	c5tukC_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: C: PDB Molecule: tetracycline destructase tet(51); PDBTitle: crystal structure of tetracycline destructase tet(51)
70	c5x68B_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: kynurenine 3-monooxygenase; PDBTitle: crystal structure of human kmo
71	c2r0gB_	Alignment	not modelled	100.0	12	PDB header: oxidoreductase Chain: B: PDB Molecule: rebc; PDBTitle: chromopyrrolic acid-soaked rebc with bound 7-carboxy-k252c
72	c6aioA_	Alignment	not modelled	100.0	16	PDB header: flavoprotein Chain: A: PDB Molecule: pnpa; PDBTitle: crystal structure of p-nitrophenol 4-monooxygenase pnpa from2 pseudomonas putida dll-e4
73	c4k22A_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: protein visc; PDBTitle: structure of the c-terminal truncated form of e.coli c5-hydroxylase2 ubii involved in ubiquinone (q8) biosynthesis
74	c3rp7A_	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: flavoprotein monooxygenase; PDBTitle: crystal structure of klebsiella pneumoniae hpox complexed with fad and2 uric acid
75	c6bz5B_	Alignment	not modelled	100.0	12	PDB header: oxidoreductase Chain: B: PDB Molecule: salicylate hydroxylase; PDBTitle: structure and mechanism of salicylate hydroxylase from pseudomonas2 putida g7
76	c2rgiA_	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: flavin-containing monooxygenase; PDBTitle: crystal structure of flavin-containing monooxygenase phzs
77	c4n9xA_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: putative monooxygenase; PDBTitle: crystal structure of the octaprenyl-methyl-methoxy-benzq molecule from2 erwina carotovora subsp. atroseptica strain scri

						1043 / atcc baa-672,3 northeast structural genomics consortium (nesg) target ewr161
78	c3c4aA_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: probable tryptophan hydroxylase viod; PDBTitle: crystal structure of viod hydroxylase in complex with fad from2 chromobacterium violaceum. northeast structural genomics consortium3 target cvr158
79	c2x3nA_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: probable fad-dependent monooxygenase; PDBTitle: crystal structure of pqsI, a probable fad-dependent monooxygenase from2 pseudomonas aeruginosa
80	c3atrA_	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: conserved archaeal protein; PDBTitle: geranylgeranyl reductase (ggr) from sulfolobus acidocaldarius co-2 crystallized with its ligand
81	c5tueB_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: B: PDB Molecule: tetracycline destructase tet(50); PDBTitle: crystal structure of tetracycline destructase tet(50)
82	c4bk2A_	Alignment	not modelled	100.0	12	PDB header: oxidoreductase Chain: A: PDB Molecule: probable salicylate monooxygenase; PDBTitle: crystal structure of 3-hydroxybenzoate 6-hydroxylase2 uncovers lipid-assisted flavoprotein strategy for3 regioselective aromatic hydroxylation: q301e mutant
83	c5uaoA_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: tryptophane-5-halogenase; PDBTitle: crystal structure of mibh, a lathipeptide tryptophan 5-halogenase
84	c3cgvA_	Alignment	not modelled	100.0	13	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: geranylgeranyl reductase related protein; PDBTitle: crystal structure of geranylgeranyl bacteriochlorophyll reductase-like2 fixc homolog (np_393992.1) from thermoplasma acidophilum at 1.60 a3 resolution
85	c1ddiA_	Alignment	not modelled	99.9	23	PDB header: oxidoreductase Chain: A: PDB Molecule: sulfite reductase [nadph] flavoprotein alpha-component; PDBTitle: crystal structure of sir-fp60
86	c5eowA_	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: A: PDB Molecule: 6-hydroxynicotinate 3-monooxygenase; PDBTitle: crystal structure of 6-hydroxynicotinic acid 3-monooxygenase from2 pseudomonas putida kt2440
87	c6efvA_	Alignment	not modelled	99.9	22	PDB header: flavoprotein Chain: A: PDB Molecule: sulfite reductase [nadph] flavoprotein alpha-component; PDBTitle: the nadph-dependent sulfite reductase flavoprotein adopts an extended2 conformation that is unique to this diflavin reductase
88	c5hy5A_	Alignment	not modelled	99.9	13	PDB header: oxidoreductase Chain: A: PDB Molecule: tryptophan 6-halogenase; PDBTitle: crystal structure of a tryptophan 6-halogenase (stth) from2 streptomyces toxytricini
89	c2bryA_	Alignment	not modelled	99.9	11	PDB header: transport Chain: A: PDB Molecule: nedd9 interacting protein with calponin homology PDBTitle: crystal structure of the native monooxygenase domain of2 mical at 1.45 a resolution
90	c4cy8A_	Alignment	not modelled	99.9	16	PDB header: oxidoreductase Chain: A: PDB Molecule: 2-hydroxybiphenyl 3-monooxygenase; PDBTitle: 2-hydroxybiphenyl 3-monooxygenase (hbpa) in complex with fad
91	c6ib5B_	Alignment	not modelled	99.9	17	PDB header: flavoprotein Chain: B: PDB Molecule: tryptophan 6-halogenase; PDBTitle: mutant of flavin-dependent tryptophan halogenase thal with altered2 regioselectivity (thal-rebh5)
92	c2vouA_	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: A: PDB Molecule: 2,6-dihydroxypyridine hydroxylase; PDBTitle: structure of 2,6-dihydroxypyridine-3-hydroxylase from2 arthrobacter nicotinovorans
93	c2xdoC_	Alignment	not modelled	99.9	14	PDB header: oxidoreductase Chain: C: PDB Molecule: tetx2 protein; PDBTitle: structure of the tetracycline degrading monooxygenase tetx2 from2 bacteroides thetaiotaomicron
94	c1tliA_	Alignment	not modelled	99.9	23	PDB header: oxidoreductase Chain: A: PDB Molecule: nitric-oxide synthase, brain; PDBTitle: crystal structure of rat neuronal nitric-oxide synthase2 reductase module at 2.3 a resolution.
95	c2ardA_	Alignment	not modelled	99.9	15	PDB header: biosynthetic protein Chain: A: PDB Molecule: tryptophan halogenase prna; PDBTitle: the structure of tryptophan 7-halogenase (prna) suggests a mechanism2 for regioselective chlorination
96	d1k0ia1	Alignment	not modelled	99.9	17	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD-linked reductases, N-terminal domain
97	c6frlA_	Alignment	not modelled	99.9	18	PDB header: flavoprotein Chain: A: PDB Molecule: tryptophan halogenase superfamily; PDBTitle: brvh, a flavin-dependent halogenase from brevundimonas sp. bal3
98	c2weuD_	Alignment	not modelled	99.9	15	PDB header: antifungal protein Chain: D: PDB Molecule: tryptophan 5-halogenase; PDBTitle: crystal structure of tryptophan 5-halogenase (pyrh) complex2 with substrate tryptophan
99	d1tvca2	Alignment	not modelled	99.9	35	Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Aromatic dioxygenase reductase-like
100	c4hb9A_	Alignment	not modelled	99.9	13	PDB header: oxidoreductase Chain: A: PDB Molecule: similarities with probable monooxygenase; PDBTitle: crystal structure of a putative fad containing monooxygenase from2 photorhabdus luminescens subsp. laumondii tto1 (target psi-012791)
101	c1j9zB_	Alignment	not modelled	99.9	22	PDB header: oxidoreductase Chain: B: PDB Molecule: nadph-cytochrome p450 reductase;

				PDBTitle: cypor-w677g		
102	c5gxuA	Alignment	not modelled	99.9	28	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh--cytochrome p450 reductase 2; PDBTitle: crystal structure of arabidopsis atr2
103	c1f20A	Alignment	not modelled	99.9	24	PDB header: oxidoreductase Chain: A: PDB Molecule: nitric-oxide synthase; PDBTitle: crystal structure of rat neuronal nitric-oxide synthase fad/nadp+2 domain at 1.9a resolution.
104	d1qfja2	Alignment	not modelled	99.9	28	Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Reductases
105	c2pyxA	Alignment	not modelled	99.9	9	PDB header: biosynthetic protein Chain: A: PDB Molecule: tryptophan halogenase; PDBTitle: crystal structure of tryptophan halogenase (yp_750003.1) from2 shewanella frigidimarina ncimb 400 at 1.50 a resolution
106	c2gmhA	Alignment	not modelled	99.9	12	PDB header: oxidoreductase Chain: A: PDB Molecule: electron transfer flavoprotein-ubiquinone PDBTitle: structure of porcine electron transfer flavoprotein-2 ubiquinone oxidoreductase in complexed with ubiquinone
107	c2e4gB	Alignment	not modelled	99.9	15	PDB header: biosynthetic protein, flavoprotein Chain: B: PDB Molecule: tryptophan halogenase; PDBTitle: rebh with bound l-trp
108	d1gvha3	Alignment	not modelled	99.9	25	Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Flavoheemoglobin, C-terminal domain
109	c4txkA	Alignment	not modelled	99.9	12	PDB header: oxidoreductase Chain: A: PDB Molecule: protein-methionine sulfoxide oxidase mical1; PDBTitle: construct of mical-1 containing the monooxygenase and calponin2 homology domains
110	d1krha2	Alignment	not modelled	99.9	42	Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Aromatic dioxygenase reductase-like
111	c4dqkA	Alignment	not modelled	99.9	24	PDB header: oxidoreductase Chain: A: PDB Molecule: bifunctional p-450/nadh-p450 reductase; PDBTitle: crystal structure of the fad binding domain of cytochrome p450 bm3
112	d1pn0a1	Alignment	not modelled	99.9	15	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD-linked reductases, N-terminal domain
113	d1cqxa3	Alignment	not modelled	99.9	26	Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Flavoheemoglobin, C-terminal domain
114	c3qftA	Alignment	not modelled	99.9	25	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh--cytochrome p450 reductase; PDBTitle: crystal structure of nadph-cytochrome p450 reductase (fad/nadph domain2 and r457h mutant)
115	c2qtzA	Alignment	not modelled	99.9	23	PDB header: oxidoreductase Chain: A: PDB Molecule: methionine synthase reductase; PDBTitle: crystal structure of the nadp+-bound fad-containing fnr-like module of2 human methionine synthase reductase
116	d3c96a1	Alignment	not modelled	99.9	17	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD-linked reductases, N-terminal domain
117	d2voua1	Alignment	not modelled	99.9	18	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD-linked reductases, N-terminal domain
118	d1umka2	Alignment	not modelled	99.9	30	Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Reductases
119	c2bpoA	Alignment	not modelled	99.9	27	PDB header: reductase Chain: A: PDB Molecule: nadh-cytochrom p450 reductase; PDBTitle: crystal structure of the yeast cpr triple mutant: d74g, y75f, k78a.
120	d1a8pa2	Alignment	not modelled	99.9	22	Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Reductases