



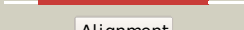

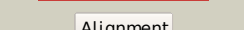

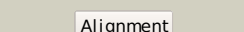

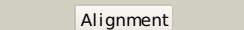





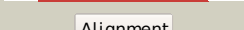

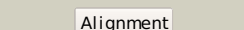

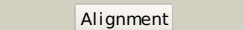








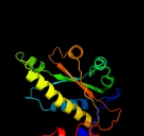
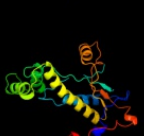


#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	dlykia1	 Alignment		100.0	100	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
2	dlkqba_	 Alignment		100.0	88	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
3	dlvfra_	 Alignment		100.0	30	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
4	c3of4A_	 Alignment		100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: nitroreductase; PDBTitle: crystal structure of a fmN/fad- and nad(p)h-dependent nitroreductase2 (nfnb, il2077) from idiomarina loihiensis l2tr at 1.90 a resolution
5	c3ge6B_	 Alignment		100.0	23	PDB header: oxidoreductase Chain: B: PDB Molecule: nitroreductase; PDBTitle: crystal structure of a putative nitroreductase in complex with fmN2 (exig_2970) from exigobacterium sibiricum 255-15 at 1.85 a3 resolution
6	c3bemA_	 Alignment		100.0	16	PDB header: oxidoreductase 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
7	c3gbhC_	 Alignment		100.0	22	PDB header: oxidoreductase 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
8	c3gr3B_	 Alignment		100.0	16	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
9	c3gagB_	 Alignment		100.0	18	PDB header: oxidoreductase 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
10	c2hayD_	 Alignment		100.0	20	PDB header: oxidoreductase 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
11	dlzcha1	 Alignment		100.0	23	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase

12	c3n2sD_	Alignment		100.0	20	PDB header: oxidoreductase Chain: D: PDB Molecule: nadh-dependent nitro/flavin reductase; PDBTitle: structure of nfra1 nitroreductase from b. subtilis
13	d1nox_a	Alignment		100.0	24	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
14	d1f5va_	Alignment		100.0	21	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
15	c2wzvB_	Alignment		100.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: nfnb protein; PDBTitle: crystal structure of the fmn-dependent nitroreductase nfnb2 from mycobacterium smegmatis
16	d2b67a1	Alignment		100.0	20	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
17	c3eofB_	Alignment		100.0	21	PDB header: oxidoreductase Chain: B: PDB Molecule: putative oxidoreductase; PDBTitle: crystal structure of putative oxidoreductase (yp_213212.1) from2 bacteroides fragilis nctc 9343 at 1.99 a resolution
18	c3gh8A_	Alignment		100.0	20	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)
19	d1bkja_	Alignment		100.0	25	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
20	c2h0uA_	Alignment		100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh-flavin oxidoreductase; PDBTitle: crystal structure of nad(p)h-flavin oxidoreductase from helicobacter2 pylori
21	c2islB_	Alignment	not modelled	100.0	17	PDB header: flavoprotein Chain: B: PDB Molecule: blub; PDBTitle: blub bound to reduced flavin (fmnh2) and molecular oxygen.2 (clear crystal form)
22	d1ywqa1	Alignment	not modelled	100.0	13	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
23	c3eo8A_	Alignment	not modelled	100.0	18	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
24	d2ifaa1	Alignment	not modelled	100.0	10	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
25	c3k6hB_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: nitroreductase family protein; PDBTitle: crystal structure of a nitroreductase family protein from2 agrobacterium tumefaciens str. c58
26	d2frea1	Alignment	not modelled	100.0	17	Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: NADH oxidase/flavin reductase
27	c3koqC_	Alignment	not modelled	100.0	25	PDB header: oxidoreductase 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
28	c3ge5A_	Alignment	not modelled	100.0	24	PDB header: oxidoreductase 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
29	c2wqfA_	Alignment	not modelled	100.0	18 PDB header: oxidoreductase Chain: A: PDB Molecule: copper induced nitroreductase d; PDBTitle: crystal structure of the nitroreductase cind from2 lactococcus lactis in complex with fmn
30	c2r01A_	Alignment	not modelled	100.0	20 PDB header: oxidoreductase Chain: A: PDB Molecule: nitroreductase family protein; PDBTitle: crystal structure of a putative fmn-dependent nitroreductase (ct0345)2 from chlorobium tepidum tfs at 1.15 a resolution
31	c2i7hE_	Alignment	not modelled	100.0	18 PDB header: oxidoreductase Chain: E: PDB Molecule: nitroreductase-like family protein; PDBTitle: crystal structure of the nitroreductase-like family protein from2 bacillus cereus
32	c3g14B_	Alignment	not modelled	100.0	18 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
33	c3gfaB_	Alignment	not modelled	100.0	17 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
34	c3ek3A_	Alignment	not modelled	100.0	16 PDB header: flavoprotein Chain: A: PDB Molecule: nitroreductase; PDBTitle: crystal structure of nitroreductase with bound fmn (yp_211706.1) from2 bacteroides fragilis nctc 9343 at 1.70 a resolution
35	c3pxvD_	Alignment	not modelled	100.0	21 PDB header: oxidoreductase Chain: D: PDB Molecule: nitroreductase; PDBTitle: crystal structure of a nitroreductase with bound fmn (dhaf_2018) from2 desulfotobacterium hafniense dcb-2 at 2.30 a resolution
36	c3kwkA_	Alignment	not modelled	100.0	22 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
37	c3m5kA_	Alignment	not modelled	100.0	26 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
38	c3e39A_	Alignment	not modelled	100.0	22 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
39	c3e10B_	Alignment	not modelled	100.0	24 PDB header: oxidoreductase Chain: B: PDB Molecule: putative nadh oxidase; PDBTitle: crystal structure of putative nadh oxidase (np_348178.1)2 from clostridium acetobutylicum at 1.40 a resolution
40	c3hoiA_	Alignment	not modelled	100.0	23 PDB header: oxidoreductase Chain: A: PDB Molecule: fmn-dependent nitroreductase bf3017; PDBTitle: crystal structure of fmn-dependent nitroreductase bf3017 from2 bacteroides fragilis nctc 9343 (yp_212631.1) from bacteroides3 fragilis nctc 9343 at 1.55 a resolution
41	c3hj9A_	Alignment	not modelled	100.0	18 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
42	c3bm2B_	Alignment	not modelled	100.0	13 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
43	c3eo7A_	Alignment	not modelled	99.9	19 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
44	d1vkwa_	Alignment	not modelled	99.8	20 Fold: FMN-dependent nitroreductase-like Superfamily: FMN-dependent nitroreductase-like Family: Putative nitroreductase TM1586
45	d1oeyj_	Alignment	not modelled	47.2	21 Fold: beta-Grasp (ubiquitin-like) Superfamily: CAD & PB1 domains Family: PB1 domain
46	d2oc6a1	Alignment	not modelled	31.8	4 Fold: Secretion chaperone-like Superfamily: YdhG-like Family: YdhG-like
47	c3nr7A_	Alignment	not modelled	31.3	17 PDB header: dna binding protein Chain: A: PDB Molecule: dna-binding protein h-ns; PDBTitle: crystal structure of s. typhimurium h-ns 1-83
48	d1ov9a_	Alignment	not modelled	30.6	34 Fold: H-NS histone-like proteins Superfamily: H-NS histone-like proteins Family: H-NS histone-like proteins
49	c3gyxJ_	Alignment	not modelled	25.1	14 PDB header: oxidoreductase Chain: J: PDB Molecule: adenylylsulfate reductase; PDBTitle: crystal structure of adenylylsulfate reductase from2 desulfovibrio gigas
50	d1fs2b1	Alignment	not modelled	19.1	25 Fold: Skp1 dimerisation domain-like Superfamily: Skp1 dimerisation domain-like Family: Skp1 dimerisation domain-like
51	c1nexC_	Alignment	not modelled	18.5	22 PDB header: ligase, cell cycle Chain: C: PDB Molecule: centromere dna-binding protein complex cbf3 PDBTitle: crystal structure of scskp1-sccd4-cpd peptide complex PDB header: signaling protein

52	c2p1nD_	Alignment	not modelled	18.2	25	Chain: D: PDB Molecule: skp1-like protein 1a; PDBTitle: mechanism of auxin perception by the tir1 ubiquitin ligase
53	d2ovra1	Alignment	not modelled	17.8	25	Fold: Skp1 dimerisation domain-like Superfamily: Skp1 dimerisation domain-like Family: Skp1 dimerisation domain-like
54	c2ovqA_	Alignment	not modelled	17.2	25	PDB header: transcription/cell cycle Chain: A: PDB Molecule: s-phase kinase-associated protein 1a; PDBTitle: structure of the skp1-fbw7-cyclinedegc complex
55	d1nexa1	Alignment	not modelled	17.1	23	Fold: Skp1 dimerisation domain-like Superfamily: Skp1 dimerisation domain-like Family: Skp1 dimerisation domain-like
56	d2i8da1	Alignment	not modelled	15.3	11	Fold: Secretion chaperone-like Superfamily: YdhG-like Family: YdhG-like
57	d1gefa_	Alignment	not modelled	14.0	13	Fold: Restriction endonuclease-like Superfamily: Restriction endonuclease-like Family: Hjc-like
58	c1jsuC_	Alignment	not modelled	13.3	9	PDB header: complex (transferase/cyclin/inhibitor) Chain: C: PDB Molecule: p27; PDBTitle: p27(kip1)/cyclin a/cdk2 complex
59	c2ds2B_	Alignment	not modelled	12.2	18	PDB header: plant protein Chain: B: PDB Molecule: sweet protein mabinlin-2 chain b; PDBTitle: crystal structure of mabinlin ii
60	c3pywA_	Alignment	not modelled	11.9	23	PDB header: structural protein Chain: A: PDB Molecule: s-layer protein sap; PDBTitle: the structure of the slh domain from b. anthracis surface array2 protein at 1.8a
61	c2f9jP_	Alignment	not modelled	10.9	15	PDB header: rna binding protein Chain: P: PDB Molecule: splicing factor 3b subunit 1; PDBTitle: 3.0 angstrom resolution structure of a y22m mutant of the spliceosomal2 protein p14 bound to a region of sf3b155
62	c3nznA_	Alignment	not modelled	10.5	26	PDB header: oxidoreductase Chain: A: PDB Molecule: glutaredoxin; PDBTitle: the crystal structure of the glutaredoxin from methanosarcina mazei2 go1
63	c1pnbB_	Alignment	not modelled	9.6	23	PDB header: seed storage protein Chain: B: PDB Molecule: napin bnib; PDBTitle: structure of napin bnib, nmr, 10 structures
64	d1vla1	Alignment	not modelled	8.4	4	Fold: beta-clip Superfamily: AFP III-like domain Family: AFP III-like domain
65	c1h6zA_	Alignment	not modelled	8.2	10	PDB header: transferase Chain: A: PDB Molecule: pyruvate phosphate dikinase; PDBTitle: 3.0 a resolution crystal structure of glycosomal pyruvate2 phosphate dikinase from trypanosoma brucei
66	c3k4iC_	Alignment	not modelled	8.1	14	PDB header: structural genomics, unknown function Chain: C: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of uncharacterized protein pspto_3204 from2 pseudomonas syringae pv. tomato str. dc3000
67	d1ni8a_	Alignment	not modelled	8.0	14	Fold: H-NS histone-like proteins Superfamily: H-NS histone-like proteins Family: H-NS histone-like proteins
68	c1sm7A_	Alignment	not modelled	7.6	19	PDB header: plant protein Chain: A: PDB Molecule: recombinant ib pronapin; PDBTitle: solution structure of the recombinant pronapin precursor,2 bnib.
69	d1vbga1	Alignment	not modelled	7.4	9	Fold: TIM beta/alpha-barrel Superfamily: Phosphoenolpyruvate/pyruvate domain Family: Pyruvate phosphate dikinase, C-terminal domain
70	c3dnjB_	Alignment	not modelled	7.3	15	PDB header: peptide binding protein Chain: B: PDB Molecule: atp-dependent clp protease adapter protein clps; PDBTitle: the structure of the caulobacter crescentus clps protease2 adaptor protein in complex with a n-end rule peptide
71	c2o8kA_	Alignment	not modelled	7.2	18	PDB header: transcription/dna Chain: A: PDB Molecule: rna polymerase sigma factor rpon; PDBTitle: nmr structure of the sigma-54 rpon domain bound to the-242 promoter element
72	d1wmib1	Alignment	not modelled	7.2	18	Fold: Non-globular all-alpha subunits of globular proteins Superfamily: RelB-like Family: RelB-like
73	c2qh9B_	Alignment	not modelled	6.9	24	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: upf0215 protein af_1433; PDBTitle: the crystal structure of a protein of unknown function from2 archaeoglobus fulgidus dsm 4304
74	d1h75a_	Alignment	not modelled	6.0	10	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Thioltransferase