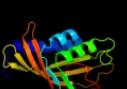
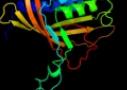
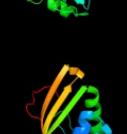


Phyre²

Email	i.a.kelley@imperial.ac.uk
Description	Q47140
Date	Wed Jan 25 15:21:13 GMT 2012
Unique Job ID	604cce7feb4cc737

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1ulib_	Alignment		100.0	31	Fold: Cystatin-like Superfamily: NTF2-like Family: Ring hydroxylating beta subunit
2	c3gzxB_	Alignment		100.0	38	PDB header: oxidoreductase Chain: B: PDB Molecule: biphenyl dioxygenase subunit beta; PDBTitle: crystal structure of the biphenyl dioxygenase in complex with biphenyl2 from comamonas testosteroni sp. strain b-356
3	d1wqlb1	Alignment		100.0	35	Fold: Cystatin-like Superfamily: NTF2-like Family: Ring hydroxylating beta subunit
4	d2bmob1	Alignment		100.0	27	Fold: Cystatin-like Superfamily: NTF2-like Family: Ring hydroxylating beta subunit
5	c2gbxF_	Alignment		100.0	28	PDB header: oxidoreductase Chain: F: PDB Molecule: biphenyl 2,3-dioxygenase beta subunit; PDBTitle: crystal structure of biphenyl 2,3-dioxygenase from sphingomonas2 yanoikuyae b1 bound to biphenyl
6	d1o7nb_	Alignment		100.0	24	Fold: Cystatin-like Superfamily: NTF2-like Family: Ring hydroxylating beta subunit
7	d2b1xb1	Alignment		100.0	33	Fold: Cystatin-like Superfamily: NTF2-like Family: Ring hydroxylating beta subunit
8	d3e99a1	Alignment		100.0	23	Fold: Cystatin-like Superfamily: NTF2-like Family: Ring hydroxylating beta subunit
9	d3ebya1	Alignment		100.0	19	Fold: Cystatin-like Superfamily: NTF2-like Family: Ring hydroxylating beta subunit
10	d3ef8a1	Alignment		99.9	18	Fold: Cystatin-like Superfamily: NTF2-like Family: BaiE/LinA-like
11	d3ejva1	Alignment		99.9	11	Fold: Cystatin-like Superfamily: NTF2-like Family: BaiE/LinA-like

12	d2rgqa1	Alignment		99.9	16	Fold: Cystatin-like Superfamily: NTF2-like Family: Rv3472-like
13	d2chca1	Alignment		99.9	17	Fold: Cystatin-like Superfamily: NTF2-like Family: Rv3472-like
14	c3a76B_	Alignment		99.9	12	PDB header: lyase Chain: B: PDB Molecule: gamma-hexachlorocyclohexane dehydrochlorinase; PDBTitle: the crystal structure of lina
15	d3stda_	Alignment		99.9	10	Fold: Cystatin-like Superfamily: NTF2-like Family: Scytalone dehydratase
16	d1idpa_	Alignment		99.9	9	Fold: Cystatin-like Superfamily: NTF2-like Family: Scytalone dehydratase
17	d3b8la1	Alignment		99.9	14	Fold: Cystatin-like Superfamily: NTF2-like Family: BaiE/LinA-like
18	d2rfra1	Alignment		99.9	16	Fold: Cystatin-like Superfamily: NTF2-like Family: BaiE/LinA-like
19	c3robC_	Alignment		99.5	6	PDB header: structural genomics, unknown function Chain: C: PDB Molecule: uncharacterized conserved protein; PDBTitle: the crystal structure of a conserved protein from planctomyces2 limnophilus dsm 3776
20	c3gzRA_	Alignment		99.4	7	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized protein with a ntf2-like fold; PDBTitle: crystal structure of an uncharacterized protein with a cystatin-like2 fold (cc_2572) from caulobacter vibrioides at 1.40 Å resolution
21	d3blza1	Alignment	not modelled	99.4	13	Fold: Cystatin-like Superfamily: NTF2-like Family: Sbal0622-like
22	d3d9ra1	Alignment	not modelled	99.4	12	Fold: Cystatin-like Superfamily: NTF2-like Family: ECA1476-like
23	c3hx8A_	Alignment	not modelled	99.3	11	PDB header: isomerase Chain: A: PDB Molecule: putative ketosteroid isomerase; PDBTitle: crystal structure of putative ketosteroid isomerase2 (np_103587.1) from mesorhizobium loti at 1.45 Å resolution
24	c3h51A_	Alignment	not modelled	99.1	8	PDB header: protein binding Chain: A: PDB Molecule: putative calcium/calmodulin dependent protein kinase ii PDBTitle: crystal structure of putative calcium/calmodulin dependent protein2 kinase ii association domain (np_636218.1) from xanthomonas3 campestris at 1.70 Å resolution
25	d1hkxa_	Alignment	not modelled	99.1	10	Fold: Cystatin-like Superfamily: NTF2-like Family: Association domain of calcium/calmodulin-dependent protein kinase type II alpha subunit, CAMK2A
26	d3cu3a1	Alignment	not modelled	99.0	11	Fold: Cystatin-like Superfamily: NTF2-like Family: BaiE/LinA-like
27	d3cnxa1	Alignment	not modelled	99.0	10	Fold: Cystatin-like Superfamily: NTF2-like Family: SAV4671-like
28	d2ux0a1	Alignment	not modelled	98.9	10	Fold: Cystatin-like Superfamily: NTF2-like Family: Association domain of calcium/calmodulin-dependent protein kinase type II alpha subunit, CAMK2A

29	d2f86b1	Alignment	not modelled	98.9	10	Fold: Cystatin-like Superfamily: NTF2-like Family: Association domain of calcium/calmodulin-dependent protein kinase type II alpha subunit, CAMK2A
30	d3b7ca1	Alignment	not modelled	98.9	11	Fold: Cystatin-like Superfamily: NTF2-like Family: SO0125-like
31	c3f7sA_	Alignment	not modelled	98.8	11	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized ntf2-like protein; PDBTitle: crystal structure of a ntf2-like protein of unknown function (pp_4556)2 from pseudomonas putida kt2440 at 2.11 a resolution
32	c3dukD_	Alignment	not modelled	98.7	12	PDB header: unknown function Chain: D: PDB Molecule: ntf2-like protein of unknown function; PDBTitle: crystal structure of a ntf2-like protein of unknown function2 (mfla_0564) from methyllobacillus flagellatus kt at 2.200 a resolution
33	c3soyA_	Alignment	not modelled	98.7	10	PDB header: membrane protein Chain: A: PDB Molecule: ntf2-like superfamily protein; PDBTitle: nuclear transport factor 2 (ntf2-like) superfamily protein from2 salmonella enterica subsp. enterica serovar typhimurium str. lt2
34	d2r4ia1	Alignment	not modelled	98.7	14	Fold: Cystatin-like Superfamily: NTF2-like Family: CHU142-like
35	d2rcda1	Alignment	not modelled	98.6	9	Fold: Cystatin-like Superfamily: NTF2-like Family: BxeB1374-like
36	c3bb9D_	Alignment	not modelled	98.5	7	PDB header: unknown function Chain: D: PDB Molecule: putative orphan protein; PDBTitle: crystal structure of a putative ketosteroid isomerase (sfri_1973) from2 shewanella frigidimarina ncimb 400 at 1.80 a resolution
37	c3gwrA_	Alignment	not modelled	98.4	14	PDB header: protein binding Chain: A: PDB Molecule: putative calcium/calmodulin-dependent protein kinase type PDBTitle: crystal structure of putative calcium/calmodulin-dependent protein2 kinase type ii association domain (yp_315894.1) from thiobacillus3 denitrificans atcc 25259 at 2.00 a resolution
38	d3bb9a1	Alignment	not modelled	98.4	8	Fold: Cystatin-like Superfamily: NTF2-like Family: SO0125-like
39	d2gxfa1	Alignment	not modelled	98.4	12	Fold: Cystatin-like Superfamily: NTF2-like Family: YybH-like
40	d2owpa1	Alignment	not modelled	98.4	8	Fold: Cystatin-like Superfamily: NTF2-like Family: BxeB1374-like
41	c3fsdA_	Alignment	not modelled	98.3	13	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: ntf2-like protein of unknown function in nutrient uptake; PDBTitle: crystal structure of ntf2-like protein of unknown function in nutrient2 uptake (yp_427473.1) from rhodospirillum rubrum atcc 11170 at 1.70 a3 resolution
42	c3kspA_	Alignment	not modelled	98.2	8	PDB header: unknown function Chain: A: PDB Molecule: calcium/calmodulin-dependent kinase ii association domain; PDBTitle: crystal structure of a putative ca/calmodulin-dependent kinase ii2 association domain (exig_1688) from exiguobacterium sibiricum 255-153 at 2.59 a resolution
43	c3ke7A_	Alignment	not modelled	98.2	11	PDB header: isomerase Chain: A: PDB Molecule: putative ketosteroid isomerase; PDBTitle: crystal structure of putative ketosteroid isomerase (yp_001303366.1)2 from parabacteroides distasonis atcc 8503 at 1.45 a resolution
44	c1z1sA_	Alignment	not modelled	97.9	15	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein pa3332; PDBTitle: crystal structure of putative isomerase pa3332 from2 pseudomonas aeruginosa
45	d1nwwa_	Alignment	not modelled	97.9	10	Fold: Cystatin-like Superfamily: NTF2-like Family: Limonene-1,2-epoxide hydrolase-like
46	d1s5aa_	Alignment	not modelled	97.7	8	Fold: Cystatin-like Superfamily: NTF2-like Family: PhzA/PhzB-like
47	d1oh0a_	Alignment	not modelled	97.7	7	Fold: Cystatin-like Superfamily: NTF2-like Family: Ketosteroid isomerase-like
48	d1z1sa1	Alignment	not modelled	97.7	15	Fold: Cystatin-like Superfamily: NTF2-like Family: PhzA/PhzB-like
49	d1ohpa1	Alignment	not modelled	97.6	7	Fold: Cystatin-like Superfamily: NTF2-like Family: Ketosteroid isomerase-like
50	c3ff0A_	Alignment	not modelled	97.6	18	PDB header: biosynthetic protein Chain: A: PDB Molecule: phenazine biosynthesis protein phzb 2; PDBTitle: crystal structure of a phenazine biosynthesis-related protein (phzb)2 from pseudomonas aeruginosa at 1.90 a resolution
51	c3fkad_	Alignment	not modelled	97.6	13	PDB header: unknown function Chain: D: PDB Molecule: uncharacterized ntf-2 like protein; PDBTitle: crystal structure of a ntf-2 like protein of unknown function2 (spo1084) from silicibacter pomeroyi dss-3 at 1.69 a resolution

52	d3ec9a1	Alignment	not modelled	97.6	13	Fold: Cystatin-like Superfamily: NTF2-like Family: PhzA/PhzB-like
53	c3fgyB_	Alignment	not modelled	97.5	7	PDB header: unknown function Chain: B: PDB Molecule: uncharacterized ntf2-like protein; PDBTitle: crystal structure of a ntf2-like protein (bx_e_b1094) from burkholderia2 xenovorans lb400 at 1.59 a resolution
54	d3en8a1	Alignment	not modelled	97.5	8	Fold: Cystatin-like Superfamily: NTF2-like Family: Rpa4348-like
55	c3i0yC_	Alignment	not modelled	97.4	13	PDB header: isomerase Chain: C: PDB Molecule: putative polyketide cyclase; PDBTitle: crystal structure of a putative polyketide cyclase (xcc0381) from2 xanthomonas campestris pv. campestris at 1.50 a resolution
56	c3grdA_	Alignment	not modelled	97.4	11	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized ntf2-superfamily protein; PDBTitle: crystal structure of ntf2-superfamily protein with unknown2 function (np_977240.1) from bacillus cereus atcc 10987 at3 1.25 a resolution
57	d3dm8a1	Alignment	not modelled	97.4	15	Fold: Cystatin-like Superfamily: NTF2-like Family: Rpa4348-like
58	d3dmca1	Alignment	not modelled	97.4	7	Fold: Cystatin-like Superfamily: NTF2-like Family: PhzA/PhzB-like
59	d2a15a1	Alignment	not modelled	97.3	11	Fold: Cystatin-like Superfamily: NTF2-like Family: Ketosteroid isomerase-like
60	c3f8hA_	Alignment	not modelled	97.3	10	PDB header: unknown function Chain: A: PDB Molecule: putative polyketide cyclase; PDBTitle: crystal structure of a putative polyketide cyclase (tm1040_3560) from2 silicibacter sp. tm1040 at 2.00 a resolution
61	c3f14A_	Alignment	not modelled	97.2	10	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized ntf2-like protein; PDBTitle: crystal structure of ntf2-like protein of unknown function2 (yp_680363.1) from cytophaga hutchinsonii atcc 33406 at 1.45 a3 resolution
62	c3g8zA_	Alignment	not modelled	97.1	8	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: protein of unknown function with cystatin-like fold; PDBTitle: crystal structure of protein of unknown function with cystatin-like2 fold (np_639274.1) from xanthomonas campestris at 1.90 a resolution
63	c3msoA_	Alignment	not modelled	97.1	10	PDB header: isomerase Chain: A: PDB Molecule: steroid delta-isomerase; PDBTitle: crystal structure of a steroid delta-isomerase (np_250810.1) from2 pseudomonas aeruginosa at 2.57 a resolution
64	d3ebta1	Alignment	not modelled	97.0	13	Fold: Cystatin-like Superfamily: NTF2-like Family: SnoA-like polyketide cyclase
65	c1tuhA_	Alignment	not modelled	97.0	7	PDB header: unknown function Chain: A: PDB Molecule: hypothetical protein egc068; PDBTitle: structure of bal32a from a soil-derived mobile gene cassette
66	d1tuhA_	Alignment	not modelled	97.0	7	Fold: Cystatin-like Superfamily: NTF2-like Family: Hypothetical protein egc068 from a soil-derived mobile gene cassette
67	c3f7xA_	Alignment	not modelled	97.0	7	PDB header: unknown function Chain: A: PDB Molecule: putative polyketide cyclase; PDBTitle: crystal structure of a putative polyketide cyclase (pp0894) from2 pseudomonas putida kt2440 at 1.24 a resolution
68	c3k0zB_	Alignment	not modelled	97.0	10	PDB header: lyase Chain: B: PDB Molecule: putative polyketide cyclase; PDBTitle: crystal structure of putative polyketide cyclase (np_977253.1) from2 bacillus cereus atcc 10987 at 1.91 a resolution
69	c3f8xD_	Alignment	not modelled	96.9	9	PDB header: isomerase Chain: D: PDB Molecule: putative delta-5-3-ketosteroid isomerase; PDBTitle: crystal structure of a putative delta-5-3-ketosteroid isomerase2 (eca2236) from pectobacterium atrosepticum scri1043 at 1.55 a3 resolution
70	c3fh1A_	Alignment	not modelled	96.8	12	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized ntf2-like protein; PDBTitle: crystal structure of a ntf2-like protein of unknown function (mlf8193)2 from mesorhizobium loti at 1.60 a resolution
71	c3b4oB_	Alignment	not modelled	96.7	17	PDB header: biosynthetic protein Chain: B: PDB Molecule: phenazine biosynthesis protein a/b; PDBTitle: crystal structure of phenazine biosynthesis protein phza/b2 from burkholderia cepacia r18194, apo form
72	d2k54a1	Alignment	not modelled	96.7	13	Fold: Cystatin-like Superfamily: NTF2-like Family: Atu0742-like
73	d1m98a2	Alignment	not modelled	96.5	15	Fold: Cystatin-like Superfamily: NTF2-like Family: Orange carotenoid protein, C-terminal domain
74	d2bnga1	Alignment	not modelled	96.3	13	Fold: Cystatin-like Superfamily: NTF2-like Family: Limonene-1,2-epoxide hydrolase-like
75	c3h3hA_	Alignment	not modelled	96.0	10	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized snoal-like protein; PDBTitle: crystal structure of a snoal-like protein of unknown function2 (bth_ji0226) from burkholderia thailandensis e264 at 1.60 a3 resolution
						Fold: Cystatin-like

76	d2f99a1	Alignment	not modelled	95.7	10	Superfamily: NTF2-like Family: SnoAL-like polyketide cyclase
77	c3f40A_	Alignment	not modelled	95.6	9	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized ntf2-like protein; PDBTitle: crystal structure of ntf2-like protein of unknown function2 (yp_677363.1) from cytophaga hutchinsonii atcc 33406 at3 1.27 a resolution
78	c3f9sB_	Alignment	not modelled	94.7	12	PDB header: lyase Chain: B: PDB Molecule: putative polyketide cyclase; PDBTitle: crystal structure of a putative polyketide cyclase (lferr_0659) from2 acidithiobacillus ferrooxidans atcc at 1.76 a resolution
79	c3fljA_	Alignment	not modelled	94.4	10	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein conserved in bacteria with a PDBTitle: crystal structure of uncharacterized protein conserved in bacteria2 with a cystatin-like fold (yp_168589.1) from silicibacter pomeroyi3 dss-3 at 2.00 a resolution
80	d2geya1	Alignment	not modelled	94.3	11	Fold: Cystatin-like Superfamily: NTF2-like Family: SnoAL-like polyketide cyclase
81	d1sjwa_	Alignment	not modelled	94.2	6	Fold: Cystatin-like Superfamily: NTF2-like Family: SnoAL-like polyketide cyclase
82	c3hk4B_	Alignment	not modelled	92.8	13	PDB header: lyase Chain: B: PDB Molecule: mlr7391 protein; PDBTitle: crystal structure of a putative snoal-like polyketide cyclase2 [carbohydrate phosphatase] (mlr7391) from mesorhizobium loti at 1.963 a resolution
83	c3ff2A_	Alignment	not modelled	89.3	6	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized cystatin fold protein (yp_497570.1) from PDBTitle: crystal structure of an uncharacterized cystatin fold protein2 (saro_2299) from novosphingobium aromaticivorans dsm at 1.90 a3 resolution
84	d2gexa1	Alignment	not modelled	88.4	11	Fold: Cystatin-like Superfamily: NTF2-like Family: SnoAL-like polyketide cyclase
85	c3ehcA_	Alignment	not modelled	83.3	15	PDB header: unknown function Chain: A: PDB Molecule: snoal-like polyketide cyclase; PDBTitle: crystal structure of a snoal-like polyketide cyclase (atu3018) from2 agrobacterium tumefaciens str. c58 at 2.12 a resolution
86	c3kkgA_	Alignment	not modelled	75.9	13	PDB header: lyase Chain: A: PDB Molecule: putative snoal-like polyketide cyclase; PDBTitle: crystal structure of putative snoal-like polyketide cyclase2 (yp_509242.1) from jannaschia sp. ccs1 at 1.40 a resolution
87	c1m98A_	Alignment	not modelled	75.8	8	PDB header: unknown function Chain: A: PDB Molecule: orange carotenoid protein; PDBTitle: crystal structure of orange carotenoid protein
88	d3dxoa1	Alignment	not modelled	52.2	13	Fold: Cystatin-like Superfamily: NTF2-like Family: Atu0744-like
89	c3g0kA_	Alignment	not modelled	43.4	14	PDB header: ca-binding protein Chain: A: PDB Molecule: putative membrane protein; PDBTitle: crystal structure of a protein of unknown function with a cystatin-2 like fold (saro_2880) from novosphingobium aromaticivorans dsm at 1.30 a resolution
90	d1gy7a_	Alignment	not modelled	40.0	12	Fold: Cystatin-like Superfamily: NTF2-like Family: NTF2-like
91	d1jkgb_	Alignment	not modelled	39.1	10	Fold: Cystatin-like Superfamily: NTF2-like Family: NTF2-like
92	d1q40b_	Alignment	not modelled	33.8	10	Fold: Cystatin-like Superfamily: NTF2-like Family: NTF2-like
93	d1zo2a1	Alignment	not modelled	19.3	8	Fold: Cystatin-like Superfamily: NTF2-like Family: NTF2-like
94	c3l4qa_	Alignment	not modelled	18.7	21	PDB header: viral protein/protein binding Chain: A: PDB Molecule: non-structural protein 1; PDBTitle: structural insights into phosphoinositide 3-kinase2 activation by the influenza a virus ns1 protein
95	d2gx9a1	Alignment	not modelled	17.9	21	Fold: Ns1 effector domain-like Superfamily: Ns1 effector domain-like Family: Ns1 effector domain-like
96	d1gy6a_	Alignment	not modelled	17.7	17	Fold: Cystatin-like Superfamily: NTF2-like Family: NTF2-like
97	c2qz7B_	Alignment	not modelled	17.4	15	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein sco6318; PDBTitle: the crystal structure of a homologue of tellurite resistance protein2 (terd), sco6318 from streptomyces coelicolor a3(2)
98	d1t6sa1	Alignment	not modelled	13.0	14	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: ScpB/YpuH-like
99	c3f5tA_	Alignment	not modelled	12.7	21	PDB header: viral protein Chain: A: PDB Molecule: nonstructural protein 1; PDBTitle: x-ray structure of h5n1 ns1