

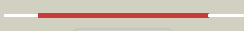
















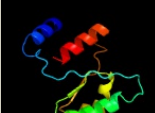

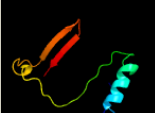


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2856A_(RVBD2856A)_3167878_3168210
Date	Wed Aug 7 12:50:52 BST 2019
Unique Job ID	07305357778af216

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2hf9A_	 Alignment		99.6	32	PDB header: hydrolase, metal binding protein Chain: A; PDB Molecule: probable hydrogenase nickel incorporation PDBTitle: crystal structure of hypb from methanocaldococcus2 jannaschii in the triphosphate form
2	c4lpsA_	 Alignment		99.6	38	PDB header: metal binding protein Chain: A; PDB Molecule: hydrogenase/urease nickel incorporation protein hypb; PDBTitle: crystal structure of hypb from helicobacter pylori in complex with2 nickel
3	c1nijA_	 Alignment		99.6	25	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: hypothetical protein yjia; PDBTitle: yjia protein
4	d1nija1	 Alignment		99.4	26	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
5	c2wsmB_	 Alignment		99.3	37	PDB header: metal binding protein Chain: B; PDB Molecule: hydrogenase expression/formation protein (hypb); PDBTitle: crystal structure of hydrogenase maturation factor hypb from2 archaeoglobus fulgidus
6	d2qm8a1	 Alignment		98.6	14	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
7	c5xktA_	 Alignment		98.5	25	PDB header: hydrolase Chain: A; PDB Molecule: urease accessory protein ureg; PDBTitle: klebsiella pneumoniae ureg in complex with gmppnp and nickel
8	c4hi0F_	 Alignment		98.5	27	PDB header: metal binding protein Chain: F; PDB Molecule: urease accessory protein ureg; PDBTitle: crystal structure of helicobacter pylori urease accessory protein2 uref/h/g complex
9	c2f1rA_	 Alignment		98.4	14	PDB header: biosynthetic protein Chain: A; PDB Molecule: molybdopterin-guanine dinucleotide biosynthesis PDBTitle: crystal structure of molybdopterin-guanine biosynthesis2 protein b (mobb)
10	c3nxsA_	 Alignment		98.3	13	PDB header: transport protein Chain: A; PDB Molecule: lao/ao transport system atpase; PDBTitle: crystal structure of lao/ao transport system from mycobacterium2 smegmatis bound to gdp
11	c4nkrB_	 Alignment		98.3	15	PDB header: unknown function Chain: B; PDB Molecule: molybdopterin-guanine dinucleotide biosynthesis protein b; PDBTitle: the crystal structure of bacillus subtilis mobb

12	c2gzaB_	Alignment		98.3	19	PDB header: hydrolase Chain: B; PDB Molecule: type iv secretion system protein virb11; PDBTitle: crystal structure of the virb11 atpase from the brucella suis type iv2 secretion system in complex with sulphate
13	c2wwwB_	Alignment		98.2	13	PDB header: transport protein Chain: B; PDB Molecule: methylmalonic aciduria type a protein, PDBTitle: crystal structure of methylmalonic acidemia type a protein
14	c4ii7D_	Alignment		98.1	19	PDB header: hydrolase Chain: D; PDB Molecule: flai atpase; PDBTitle: archaellum assembly atpase flai
15	d1g6oa_	Alignment		98.1	16	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: RecA protein-like (ATPase-domain)
16	d1yrba1	Alignment		98.1	23	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
17	c2oaq1_	Alignment		98.0	21	PDB header: hydrolase Chain: 1; PDB Molecule: type ii secretion system protein; PDBTitle: crystal structure of the archaeal secretion atpase gspe in complex2 with phosphate
18	c5hcnA_	Alignment		98.0	15	PDB header: hydrolase Chain: A; PDB Molecule: gpn-loop gtpase 1; PDBTitle: gpn-loop gtpase npa3 in complex with gmppcp
19	c3md0A_	Alignment		97.9	14	PDB header: transport protein Chain: A; PDB Molecule: arginine/ornithine transport system atpase; PDBTitle: crystal structure of arginine/ornithine transport system atpase from2 mycobacterium tuberculosis bound to gdp (a ras-like gtpase3 superfamily protein)
20	d1xjca_	Alignment		97.8	17	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
21	c5ady6_	Alignment	not modelled	97.8	11	PDB header: ribosome Chain: 6; PDB Molecule: gtpase hflx; PDBTitle: cryo-em structures of the 50s ribosome subunit bound with hflx
22	d2p67a1	Alignment	not modelled	97.8	25	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
23	c5it5B_	Alignment	not modelled	97.7	16	PDB header: transport protein Chain: B; PDB Molecule: atp binding motif-containing protein pilf; PDBTitle: thermus thermophilus pilb core atpase region
24	c5f4hF_	Alignment	not modelled	97.7	16	PDB header: hydrolase Chain: F; PDB Molecule: nucleotide binding protein pinc; PDBTitle: archaeal ruvb-like holiday junction helicase
25	c3jvvA_	Alignment	not modelled	97.7	24	PDB header: atp binding protein Chain: A; PDB Molecule: twitching mobility protein; PDBTitle: crystal structure of p. aeruginosa pilt with bound amp-pcp
26	c4phtC_	Alignment	not modelled	97.7	24	PDB header: protein transport Chain: C; PDB Molecule: general secretory pathway protein e; PDBTitle: atpase gspe in complex with the cytoplasmic domain of gspl from the2 vibrio vulnificus type ii secretion system
27	c4kssC_	Alignment	not modelled	97.7	24	PDB header: protein transport Chain: C; PDB Molecule: type ii secretion system protein e, hemolysin-coregulated PDBTitle: crystal structure of vibrio cholerae atpase gspse hexamer
28	d1p9ra_	Alignment	not modelled	97.6	24	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: RecA protein-like (ATPase-domain)
						PDB header: atp-binding protein

29	c5tshF_	Alignment	not modelled	97.6	24	Chain: F: PDB Molecule: type iv pilus biogenesis atpase pilb; PDBTitle: pilb from geobacter metallireducens bound to amp-pnp
30	c5fl3A_	Alignment	not modelled	97.6	20	PDB header: transport protein Chain: A: PDB Molecule: pili retraction protein pilt; PDBTitle: pilt2 from thermus thermophilus
31	c6cy1B_	Alignment	not modelled	97.6	17	PDB header: signaling protein Chain: B: PDB Molecule: signal recognition particle receptor ftsy; PDBTitle: crystal structure of signal recognition particle receptor ftsy from2 elizabethkingia anophelis
32	c2cnwF_	Alignment	not modelled	97.5	16	PDB header: signal recognition Chain: F: PDB Molecule: cell division protein ftsy; PDBTitle: gdpalf4 complex of the srp gtpases ffh and ftsy
33	d1qzxa3	Alignment	not modelled	97.5	13	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
34	c3dmdA_	Alignment	not modelled	97.5	17	PDB header: transport protein Chain: A: PDB Molecule: signal recognition particle receptor; PDBTitle: structures and conformations in solution of the signal recognition2 particle receptor from the archaeon pyrococcus furiosus
35	d2qy9a2	Alignment	not modelled	97.5	21	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
36	d1np6a_	Alignment	not modelled	97.4	28	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
37	c2qszE_	Alignment	not modelled	97.4	20	PDB header: protein transport Chain: E: PDB Molecule: switching motility protein pilt; PDBTitle: structure of a. aeolicus pilt with 6 monomers per asymmetric unit
38	c2q9cA_	Alignment	not modelled	97.4	16	PDB header: signaling protein Chain: A: PDB Molecule: cell division protein ftsy; PDBTitle: structure of ftsy:gmpnp with mgcl complex
39	d1okkd2	Alignment	not modelled	97.3	24	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
40	c5l3qB_	Alignment	not modelled	97.3	16	PDB header: protein transport Chain: B: PDB Molecule: signal recognition particle receptor subunit alpha; PDBTitle: structure of the gtpase heterodimer of human srp54 and sralpha
41	c5l3sF_	Alignment	not modelled	97.3	13	PDB header: protein transport Chain: F: PDB Molecule: signal recognition particle receptor ftsy; PDBTitle: structure of the gtpase heterodimer of crenarchaeal srp54 and ftsy
42	c5zfqA_	Alignment	not modelled	97.3	28	PDB header: transport protein Chain: A: PDB Molecule: switching motility pilus retraction protein; PDBTitle: crystal structure of pilt-4, a retraction atpase motor of type iv2 pilus , from geobacter sulfurreducens
43	c6b8vA_	Alignment	not modelled	97.2	19	PDB header: transferase Chain: A: PDB Molecule: adenylsulfate kinase; PDBTitle: crystal structure of adenylyl-sulfate kinase from cryptococcus2 neoformans
44	c5l3rC_	Alignment	not modelled	97.2	29	PDB header: protein transport Chain: C: PDB Molecule: signal recognition particle 54 kda protein, chloroplastic; PDBTitle: structure of the gtpase heterodimer of chloroplast srp54 and ftsy from2 arabidopsis thaliana
45	d1ls1a2	Alignment	not modelled	97.2	22	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
46	c1zu4A_	Alignment	not modelled	97.2	26	PDB header: protein transport Chain: A: PDB Molecule: ftsyl; PDBTitle: crystal structure of ftsy from mycoplasma mycoides-space2 group p21212
47	c5ftbA_	Alignment	not modelled	97.2	17	PDB header: hydrolase Chain: A: PDB Molecule: tpr domain protein; PDBTitle: crystal structure of pif1 helicase from bacteroides in2 complex with amppnp
48	c5fhhA_	Alignment	not modelled	97.1	24	PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent dna helicase pif1; PDBTitle: structure of human pif1 helicase domain residues 200-641
49	c2ccjA_	Alignment	not modelled	97.1	21	PDB header: transferase Chain: A: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of s. aureus thymidylate kinase complexed2 with thymidine monophosphate
50	c2yhsA_	Alignment	not modelled	97.1	21	PDB header: cell cycle Chain: A: PDB Molecule: cell division protein ftsy; PDBTitle: structure of the e. coli srp receptor ftsy
51	c5o6dB_	Alignment	not modelled	97.1	17	PDB header: hydrolase Chain: B: PDB Molecule: atp-dependent dna helicase pif1; PDBTitle: structure of scpif1 in complex with polydt and atpgs
52	c2plrB_	Alignment	not modelled	97.1	21	PDB header: transferase Chain: B: PDB Molecule: probable thymidylate kinase; PDBTitle: crystal structure of dtmp kinase (st1543) from sulfobolus tokodaii2 strain7
53	d1zj6a1	Alignment	not modelled	97.1	18	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: G proteins
54	d1vmaa2	Alignment	not modelled	97.1	19	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
						Fold: P-loop containing nucleoside triphosphate hydrolases

55	d1odfa_	Alignment	not modelled	97.1	17	Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Phosphoribulokinase/pantothenate kinase
56	c3tlxA_	Alignment	not modelled	97.1	30	PDB header: transferase Chain: A: PDB Molecule: adenylate kinase 2; PDBTitle: crystal structure of pf10_0086, adenylyl kinase from plasmodium2 falciparum
57	c3a4mB_	Alignment	not modelled	97.0	24	PDB header: transferase Chain: B: PDB Molecule: l-seryl-trna(sec) kinase; PDBTitle: crystal structure of archaeal o-phosphoseryl-trna(sec)2 kinase
58	c3b9qA_	Alignment	not modelled	97.0	25	PDB header: protein transport Chain: A: PDB Molecule: chloroplast srp receptor homolog, alpha subunit PDBTitle: the crystal structure of cpftsyt from arabidopsis thaliana
59	c2qy9A_	Alignment	not modelled	97.0	21	PDB header: protein transport Chain: A: PDB Molecule: cell division protein ftsy; PDBTitle: structure of the ng+1 construct of the e. coli srp receptor2 ftsy
60	c2j7pA_	Alignment	not modelled	97.0	22	PDB header: signal recognition Chain: A: PDB Molecule: signal recognition particle protein; PDBTitle: gmppnp-stabilized ng domain complex of the srp gtpases ffh2 and ftsy
61	c2og2A_	Alignment	not modelled	97.0	23	PDB header: protein transport Chain: A: PDB Molecule: putative signal recognition particle receptor; PDBTitle: crystal structure of chloroplast ftsy from arabidopsis2 thaliana
62	c3upuC_	Alignment	not modelled	97.0	13	PDB header: hydrolase/dna Chain: C: PDB Molecule: atp-dependent dna helicase dda; PDBTitle: crystal structure of the t4 phage sf1b helicase dda
63	c4ak9A_	Alignment	not modelled	97.0	20	PDB header: protein transport Chain: A: PDB Molecule: cpftsyt; PDBTitle: structure of chloroplast ftsy from physcomitrella patens
64	c5b3fB_	Alignment	not modelled	97.0	20	PDB header: transferase Chain: B: PDB Molecule: phosphoribulokinase/uridine kinase; PDBTitle: crystal structure of phosphoribulokinase from methanospirillum2 hungatei
65	c6mfuD_	Alignment	not modelled	96.9	22	PDB header: hydrolase Chain: D: PDB Molecule: guanylate kinase; PDBTitle: crystal structure of a guanylate kinase from cryptococcus neoformans2 var. grubii serotype a in complex with gdp and adp
66	d1ak2a1	Alignment	not modelled	96.9	33	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
67	c3dm5A_	Alignment	not modelled	96.9	26	PDB header: rna binding protein, transport protein Chain: A: PDB Molecule: signal recognition 54 kda protein; PDBTitle: structures of srp54 and srp19, the two proteins assembling the2 ribonucleic core of the signal recognition particle from the archaeon3 pyrococcus furiosus.
68	c2h18A_	Alignment	not modelled	96.9	24	PDB header: transport protein Chain: A: PDB Molecule: adp-ribosylation factor-like protein 8a; PDBTitle: structure of human adp-ribosylation factor-like 10b (arl10b)
69	c3uieB_	Alignment	not modelled	96.9	20	PDB header: transferase/transferase inhibitor Chain: B: PDB Molecule: adenylyl-sulfate kinase 1, chloroplastic; PDBTitle: crystal structure of adenosine 5'-phosphosulfate kinase from2 arabidopsis thaliana in complex with amppnp and aps
70	d1yzga1	Alignment	not modelled	96.9	24	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: G proteins
71	c1vmaA_	Alignment	not modelled	96.9	19	PDB header: protein transport Chain: A: PDB Molecule: cell division protein ftsy; PDBTitle: crystal structure of cell division protein ftsy (tm0570) from2 thermotoga maritima at 1.60 a resolution
72	c5cb6A_	Alignment	not modelled	96.9	32	PDB header: transferase Chain: A: PDB Molecule: probable adenylyl-sulfate kinase; PDBTitle: structure of adenosine-5'-phosphosulfate kinase
73	c6ckgA_	Alignment	not modelled	96.9	17	PDB header: transferase Chain: A: PDB Molecule: d-glycerate 3-kinase; PDBTitle: d-glycerate 3-kinase from cryptococcus neoformans var. grubii serotype2 a (h99 / atcc 208821 / cbs 10515 / fgsc 9487)
74	c2ja1A_	Alignment	not modelled	96.8	22	PDB header: transferase Chain: A: PDB Molecule: thymidine kinase; PDBTitle: thymidine kinase from b. cereus with ttp bound as phosphate2 donor.
75	c1lw7A_	Alignment	not modelled	96.8	12	PDB header: transferase Chain: A: PDB Molecule: transcriptional regulator nadr; PDBTitle: nadr protein from haemophilus influenzae
76	c5uivA_	Alignment	not modelled	96.8	22	PDB header: transferase Chain: A: PDB Molecule: bifunctional thymidylate/uridylylate kinase; PDBTitle: structure of thymidylate kinase from candida albicans reveals origin2 of broad substrate specificity and a novel structural element.
77	c2w0sB_	Alignment	not modelled	96.8	21	PDB header: transferase Chain: B: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of vaccinia virus thymidylate kinase2 bound to brivudin-5'-monophosphate
78	d1tmka_	Alignment	not modelled	96.8	21	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
79	c5gafi_	Alignment	not modelled	96.8	18	PDB header: ribosome Chain: I: PDB Molecule: 50s ribosomal protein l10; PDBTitle: rnc in complex with srp
80	c3geiB_	Alignment	not modelled	96.8	21	PDB header: hydrolase Chain: B: PDB Molecule: trna modification gtpase mnme; PDBTitle: crystal structure of mnme from chlorobium tepidum in complex2 with gcp

81	c2gesA	Alignment	not modelled	96.8	18	PDB header: transferase Chain: A: PDB Molecule: pantothenate kinase; PDBTitle: pantothenate kinase from mycobacterium tuberculosis (mtpank) in2 complex with a coenzyme a derivative, form-i (rt)
82	c2j41A	Alignment	not modelled	96.8	18	PDB header: transferase Chain: A: PDB Molecule: guanylate kinase; PDBTitle: crystal structure of staphylococcus aureus guanylate2 monophosphate kinase
83	c3tqcB	Alignment	not modelled	96.8	17	PDB header: transferase Chain: B: PDB Molecule: pantothenate kinase; PDBTitle: structure of the pantothenate kinase (coaa) from coxiella burnetii
84	d1nn5a	Alignment	not modelled	96.8	19	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
85	c2ql6H	Alignment	not modelled	96.8	24	PDB header: signaling protein,transferase Chain: H: PDB Molecule: nicotinamide riboside kinase 1; PDBTitle: human nicotinamide riboside kinase (nrk1)
86	c2ak2A	Alignment	not modelled	96.8	33	PDB header: phosphotransferase Chain: A: PDB Molecule: adenylate kinase isoenzyme-2; PDBTitle: adenylate kinase isoenzyme-2
87	c2wwiC	Alignment	not modelled	96.8	16	PDB header: transferase Chain: C: PDB Molecule: thymidilate kinase, putative; PDBTitle: plasmodium falciparum thymidylate kinase in complex with2 aztmp and adp
88	c5ck3D	Alignment	not modelled	96.7	30	PDB header: signaling protein Chain: D: PDB Molecule: putative signal recognition particle protein; PDBTitle: signal recognition particle receptor srb-gtp/srx complex from2 chaetomium thermophilum
89	c5x06G	Alignment	not modelled	96.7	21	PDB header: replication Chain: G: PDB Molecule: dnaa regulatory inactivator hda; PDBTitle: dna replication regulation protein
90	c2gaaA	Alignment	not modelled	96.7	27	PDB header: unknown function Chain: A: PDB Molecule: hypothetical 39.9 kda protein; PDBTitle: crystal structure of yfh7 from saccharomyces cerevisiae: a2 putative p-loop containing kinase with a circular3 permutation.
91	c5ywwA	Alignment	not modelled	96.7	19	PDB header: hydrolase Chain: A: PDB Molecule: nucleotide binding protein pinc; PDBTitle: archael ruvb-like holiday junction helicase
92	c3uwoA	Alignment	not modelled	96.7	24	PDB header: transferase/transferase inhibitor Chain: A: PDB Molecule: thymidylate kinase; PDBTitle: structure guided development of novel thymidine mimetics targeting2 pseudomonas aeruginosa thymidylate kinase: from hit to lead3 generation
93	d1ye8a1	Alignment	not modelled	96.7	23	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: RecA protein-like (ATPase-domain)
94	d1y63a	Alignment	not modelled	96.7	35	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
95	c5eaxB	Alignment	not modelled	96.7	19	PDB header: hydrolase/dna Chain: B: PDB Molecule: dna replication atp-dependent helicase/nuclease dna2; PDBTitle: crystal structure of dna2 in complex with an ssdna
96	c4dwjB	Alignment	not modelled	96.7	21	PDB header: transferase Chain: B: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of thymidylate kinase from staphylococcus aureus in2 complex with thymidine monophosphate
97	c2iy3A	Alignment	not modelled	96.7	22	PDB header: rna-binding Chain: A: PDB Molecule: signal recognition particle protein,signal recognition PDBTitle: structure of the e. coli signal recognition particle
98	c2eyuA	Alignment	not modelled	96.7	21	PDB header: protein transport Chain: A: PDB Molecule: twitching motility protein pilt; PDBTitle: the crystal structure of the c-terminal domain of aquifex2 aeolicus pilt
99	d1rz3a	Alignment	not modelled	96.7	19	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Phosphoribulokinase/pantothenate kinase
100	c2qagA	Alignment	not modelled	96.7	20	PDB header: cell cycle, structural protein Chain: A: PDB Molecule: septin-2; PDBTitle: crystal structure of human septin trimer 2/6/7
101	c2j37W	Alignment	not modelled	96.7	21	PDB header: ribosome Chain: W: PDB Molecule: signal recognition particle 54 kda protein (srp54); PDBTitle: model of mammalian srp bound to 80s rncs
102	d1lw7a2	Alignment	not modelled	96.7	12	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
103	d2ak3a1	Alignment	not modelled	96.7	34	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
104	c6gefB	Alignment	not modelled	96.6	14	PDB header: hydrolase Chain: B: PDB Molecule: type iv secretion system protein dotb; PDBTitle: x-ray structure of the yersinia pseudotuberculosis atpase dotb
105	c2q3hA	Alignment	not modelled	96.6	23	PDB header: structural genomics Chain: A: PDB Molecule: ras homolog gene family, member u; PDBTitle: the crystal structure of rhoa in the gdp-bound state.
106	c4b3gA	Alignment	not modelled	96.6	15	PDB header: hydrolase/rna Chain: A: PDB Molecule: dna-binding protein smubp-2; PDBTitle: crystal structure of ighmbp2 helicase in complex with rna
						Fold: P-loop containing nucleoside triphosphate hydrolases

107	d1zina1	Alignment	not modelled	96.6	33	Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
108	d2i3ba1	Alignment	not modelled	96.6	40	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: RecA protein-like (ATPase-domain)
109	c5do7B_	Alignment	not modelled	96.6	13	PDB header: transport protein Chain: B: PDB Molecule: atp-binding cassette sub-family g member 8; PDBTitle: crystal structure of the human sterol transporter abcg5/abcg8
110	c5uj7B_	Alignment	not modelled	96.5	16	PDB header: dna binding protein Chain: B: PDB Molecule: origin recognition complex subunit 1; PDBTitle: structure of the active form of human origin recognition complex2 atpase motor module, complex subunits 1, 4, 5
111	d1sq5a_	Alignment	not modelled	96.5	14	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Phosphoribulokinase/pantothenate kinase
112	c3ievA_	Alignment	not modelled	96.5	29	PDB header: nucleotide binding protein/rna Chain: A: PDB Molecule: gtp-binding protein era; PDBTitle: crystal structure of era in complex with mggnp and the 3' end of 16s2 rrna
113	c5x7jA_	Alignment	not modelled	96.5	33	PDB header: transferase Chain: A: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of thymidylate kinase from thermus thermophilus hb8
114	d1egaa1	Alignment	not modelled	96.5	29	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: G proteins
115	c4xc8B_	Alignment	not modelled	96.4	19	PDB header: isomerase Chain: B: PDB Molecule: isobutyryl-coa mutase fused; PDBTitle: isobutyryl-coa mutase fused with bound butyryl-coa, gdp, and mg and2 without cobalamin (apo-icmf/gdp)
116	d1mr3f_	Alignment	not modelled	96.4	39	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: G proteins
117	c5nj3B_	Alignment	not modelled	96.4	21	PDB header: transport protein Chain: B: PDB Molecule: atp-binding cassette sub-family g member 2; PDBTitle: structure of an abc transporter: complete structure
118	c1ueiB_	Alignment	not modelled	96.4	17	PDB header: transferase Chain: B: PDB Molecule: uridine-cytidine kinase 2; PDBTitle: crystal structure of human uridine-cytidine kinase 22 complexed with a feedback-inhibitor, utp
119	c1egaB_	Alignment	not modelled	96.4	26	PDB header: hydrolase Chain: B: PDB Molecule: protein (gtp-binding protein era); PDBTitle: crystal structure of a widely conserved gtpase era
120	c5ksza_	Alignment	not modelled	96.4	22	PDB header: hydrolase Chain: A: PDB Molecule: mitochondrial rho gtpase 1; PDBTitle: hmiro ef hand and cgtpase domains in the gmppcp-bound state