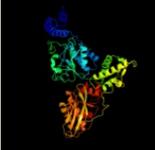
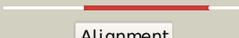
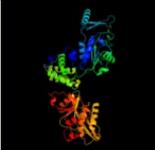
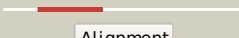
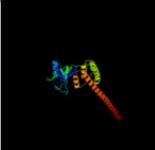
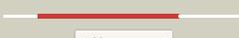
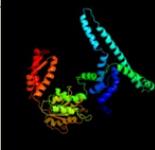
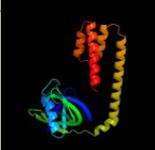
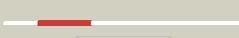
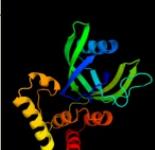
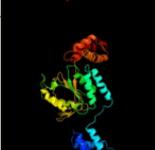


Phyre2

| | |
|---------------|-----------------------------|
| Email | l.a.kelley@imperial.ac.uk |
| Description | P0A9M0 |
| Date | Thu Jan 5 11:10:41 GMT 2012 |
| Unique Job ID | 60f0b08e50dc489a |

Detailed template information

| # | Template | Alignment Coverage | 3D Model | Confidence | % i.d. | Template Information |
|----|-------------------------|--|---|------------|--------|---|
| 1 | c3m6aC_ |  Alignment |  | 100.0 | 59 | PDB header: hydrolase Chain: C: PDB Molecule: atp-dependent protease la 1; PDBTitle: crystal structure of bacillus subtilis lon c-terminal domain |
| 2 | c3k1jA_ |  Alignment |  | 100.0 | 26 | PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent protease lon; PDBTitle: crystal structure of lon protease from thermococcus onnurineus na1 |
| 3 | c3ljcA_ |  Alignment |  | 100.0 | 95 | PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent protease la; PDBTitle: crystal structure of lon n-terminal domain. |
| 4 | c2x36F_ |  Alignment |  | 100.0 | 46 | PDB header: hydrolase Chain: F: PDB Molecule: lon protease homolog, mitochondrial; PDBTitle: structure of the proteolytic domain of the human2 mitochondrial lon protease |
| 5 | d1rrea_ |  Alignment |  | 100.0 | 98 | Fold: Ribosomal protein S5 domain 2-like Superfamily: Ribosomal protein S5 domain 2-like Family: ATP-dependent protease Lon (La), catalytic domain |
| 6 | c1qvrB_ |  Alignment |  | 100.0 | 19 | PDB header: chaperone Chain: B: PDB Molecule: clpb protein; PDBTitle: crystal structure analysis of clpb |
| 7 | d1xhka_ |  Alignment |  | 100.0 | 32 | Fold: Ribosomal protein S5 domain 2-like Superfamily: Ribosomal protein S5 domain 2-like Family: ATP-dependent protease Lon (La), catalytic domain |
| 8 | c3m65A_ |  Alignment |  | 100.0 | 46 | PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent protease la 1; PDBTitle: crystal structure of bacillus subtilis lon n-terminal domain |
| 9 | c1z0eF_ |  Alignment |  | 100.0 | 31 | PDB header: hydrolase Chain: F: PDB Molecule: putative protease la homolog type; PDBTitle: crystal structure of a. fulgidus lon proteolytic domain |
| 10 | d1zboal |  Alignment |  | 100.0 | 19 | Fold: PUA domain-like Superfamily: PUA domain-like Family: LON domain-like |
| 11 | c1r6bX_ |  Alignment |  | 100.0 | 18 | PDB header: hydrolase Chain: X: PDB Molecule: clpa protein; PDBTitle: high resolution crystal structure of clpa |

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|----|-------------------------|-----------|--------------|-------|-----|--|
| 12 | c3pxiB_ | Alignment | | 100.0 | 19 | PDB header: protein binding Chain: B: PDB Molecule: negative regulator of genetic competence clpc/meccb; PDBTitle: structure of meca108:clpc |
| 13 | d1r6bx3 | Alignment | | 100.0 | 24 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 14 | d1um8a_ | Alignment | | 100.0 | 23 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 15 | d1ofha_ | Alignment | | 100.0 | 20 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 16 | d1g41a_ | Alignment | | 100.0 | 20 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 17 | d1qvra3 | Alignment | | 100.0 | 21 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 18 | c3cf1C_ | Alignment | | 99.9 | 22 | PDB header: transport protein Chain: C: PDB Molecule: transitional endoplasmic reticulum atpase; PDBTitle: structure of p97/vcp in complex with adp/adp.alpha.fx |
| 19 | c3hteC_ | Alignment | | 99.9 | 20 | PDB header: motor protein Chain: C: PDB Molecule: atp-dependent clp protease atp-binding subunit clpx; PDBTitle: crystal structure of nucleotide-free hexameric clpx |
| 20 | d2anea1 | Alignment | | 99.9 | 100 | Fold: PUA domain-like Superfamily: PUA domain-like Family: LON domain-like |
| 21 | c3hu2C_ | Alignment | not modelled | 99.9 | 23 | PDB header: transport protein Chain: C: PDB Molecule: transitional endoplasmic reticulum atpase; PDBTitle: structure of p97 n-d1 r86a mutant in complex with atpgs |
| 22 | c1s3sA_ | Alignment | not modelled | 99.9 | 22 | PDB header: protein binding Chain: A: PDB Molecule: transitional endoplasmic reticulum atpase (ter PDBTitle: crystal structure of aaa atpase p97/vcp nd1 in complex with2 p47 c |
| 23 | c3b9pA_ | Alignment | not modelled | 99.9 | 21 | PDB header: hydrolase Chain: A: PDB Molecule: cg5977-pa, isoform a; PDBTitle: spastin |
| 24 | c1xwiA_ | Alignment | not modelled | 99.9 | 18 | PDB header: protein transport Chain: A: PDB Molecule: skd1 protein; PDBTitle: crystal structure of vps4b |
| 25 | c2zamA_ | Alignment | not modelled | 99.9 | 17 | PDB header: protein transport Chain: A: PDB Molecule: vacuolar protein sorting-associated protein 4b; PDBTitle: crystal structure of mouse skd1/vps4b apo-form |
| 26 | c3eihB_ | Alignment | not modelled | 99.9 | 17 | PDB header: protein transport Chain: B: PDB Molecule: vacuolar protein sorting-associated protein 4; PDBTitle: crystal structure of s.cerevisiae vps4 in the presence of atpgammas |
| 27 | c2dhrC_ | Alignment | not modelled | 99.9 | 21 | PDB header: hydrolase Chain: C: PDB Molecule: ftsh; PDBTitle: whole cytosolic region of atp-dependent metalloprotease2 ftsh (g399l) |
| 28 | c3d8bB_ | Alignment | not modelled | 99.9 | 22 | PDB header: hydrolase Chain: B: PDB Molecule: fidgetin-like protein 1; PDBTitle: crystal structure of human fidgetin-like protein 1 in |

| | | | | | | |
|----|-------------------------|-----------|--------------|------|-----|--|
| | | | | | | complex with adp PDB header: hydrolase Chain: A: PDB Molecule: cell division protease ftsH homolog; PDBTitle: crystal structure of helicobacter pylori atp dependent protease, ftsH2 adp complex |
| 29 | c2r65A_ | Alignment | not modelled | 99.9 | 18 | |
| 30 | d2ce7a2 | Alignment | not modelled | 99.9 | 19 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 31 | d1e94e_ | Alignment | not modelled | 99.9 | 24 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 32 | c3pfiB_ | Alignment | not modelled | 99.8 | 21 | PDB header: hydrolase Chain: B: PDB Molecule: holliday junction atp-dependent dna helicase ruvB; PDBTitle: 2.7 angstrom resolution crystal structure of a probable holliday2 junction dna helicase (ruvB) from campylobacter jejuni subsp. jejuni3 nctc 11168 in complex with adenosine-5'-diphosphate |
| 33 | c1iy2A_ | Alignment | not modelled | 99.8 | 21 | PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent metalloprotease ftsH; PDBTitle: crystal structure of the ftsH atpase domain from thermus2 thermophilus |
| 34 | c2ce7B_ | Alignment | not modelled | 99.8 | 20 | PDB header: cell division protein Chain: B: PDB Molecule: cell division protein ftsH; PDBTitle: edta treated |
| 35 | c2qz4A_ | Alignment | not modelled | 99.8 | 20 | PDB header: hydrolase Chain: A: PDB Molecule: paraplegin; PDBTitle: human paraplegin, aaa domain in complex with adp |
| 36 | d1ixza_ | Alignment | not modelled | 99.8 | 21 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 37 | c3h4mC_ | Alignment | not modelled | 99.8 | 23 | PDB header: hydrolase Chain: C: PDB Molecule: proteasome-activating nucleotidase; PDBTitle: aaa atpase domain of the proteasome- activating nucleotidase |
| 38 | c3pvsA_ | Alignment | not modelled | 99.8 | 16 | PDB header: recombination Chain: A: PDB Molecule: replication-associated recombination protein a; PDBTitle: structure and biochemical activities of escherichia coli mgsa |
| 39 | d1qzma_ | Alignment | not modelled | 99.8 | 100 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 40 | c2x8aA_ | Alignment | not modelled | 99.8 | 20 | PDB header: nuclear protein Chain: A: PDB Molecule: nuclear valosin-containing protein-like; PDBTitle: human nuclear valosin containing protein like (nvl), c-2 terminal aaa-atpase domain |
| 41 | d1ixsb2 | Alignment | not modelled | 99.8 | 23 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 42 | d1r6bx2 | Alignment | not modelled | 99.8 | 16 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 43 | c1nsfA_ | Alignment | not modelled | 99.8 | 18 | PDB header: protein transport Chain: A: PDB Molecule: n-ethylmaleimide sensitive factor; PDBTitle: d2 hexamerization domain of n-ethylmaleimide sensitive factor (nsf) |
| 44 | c2r44A_ | Alignment | not modelled | 99.8 | 19 | PDB header: hydrolase Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a putative atpase (chu_0153) from cytophaga2 hutchinsonii atcc 33406 at 2.00 a resolution |
| 45 | c1in8A_ | Alignment | not modelled | 99.7 | 20 | PDB header: dna binding protein Chain: A: PDB Molecule: holliday junction dna helicase ruvB; PDBTitle: thermotoga maritima ruvB t158v |
| 46 | c1x37A_ | Alignment | not modelled | 99.7 | 54 | PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent protease la 1; PDBTitle: structure of bacillus subtilis lon protease ssd domain |
| 47 | d1e32a2 | Alignment | not modelled | 99.7 | 19 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 48 | c3pxqA_ | Alignment | not modelled | 99.7 | 20 | PDB header: protein binding Chain: A: PDB Molecule: negative regulator of genetic competence clpC/mecB; PDBTitle: structure of meca121 and clpC1-485 complex |
| 49 | d1lv7a_ | Alignment | not modelled | 99.7 | 17 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 50 | c3nbxX_ | Alignment | not modelled | 99.7 | 17 | PDB header: hydrolase Chain: X: PDB Molecule: atpase rava; PDBTitle: crystal structure of e. coli rava (regulatory atpase variant a) in2 complex with adp |
| 51 | d1r7ra3 | Alignment | not modelled | 99.7 | 21 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 52 | d1in4a2 | Alignment | not modelled | 99.7 | 23 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 53 | d1d2na_ | Alignment | not modelled | 99.7 | 17 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases |

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|----|-------------------------|-----------|--------------|------|----|--|
| | | | | | | Family: Extended AAA-ATPase domain Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases |
| 54 | d1ny5a2 | Alignment | not modelled | 99.7 | 20 | Family: Extended AAA-ATPase domain Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases |
| 55 | d1g8pa | Alignment | not modelled | 99.7 | 22 | Family: Extended AAA-ATPase domain Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases |
| 56 | c1sxaA | Alignment | not modelled | 99.7 | 19 | PDB header: replication Chain: A: PDB Molecule: activator 1 95 kda subunit; PDBTitle: crystal structure of the eukaryotic clamp loader2 (replication factor c, rfc) bound to the dna sliding clamp3 (proliferating cell nuclear antigen, pcna) |
| 57 | c2c99A | Alignment | not modelled | 99.7 | 17 | PDB header: transcription regulation Chain: A: PDB Molecule: psp operon transcriptional activator; PDBTitle: structural basis of the nucleotide driven conformational2 changes in the aaa domain of transcription activator pspf |
| 58 | d1sxa2 | Alignment | not modelled | 99.7 | 17 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 59 | c3u5zM | Alignment | not modelled | 99.7 | 16 | PDB header: dna binding protein/dna Chain: M: PDB Molecule: dna polymerase accessory protein 44; PDBTitle: structure of t4 bacteriophage clamp loader bound to the t4 clamp,2 primer-template dna, and atp analog |
| 60 | d1w5sa2 | Alignment | not modelled | 99.7 | 15 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 61 | d1njfa | Alignment | not modelled | 99.7 | 22 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 62 | c1sxE | Alignment | not modelled | 99.6 | 17 | PDB header: replication Chain: E: PDB Molecule: activator 1 40 kda subunit; PDBTitle: crystal structure of the eukaryotic clamp loader2 (replication factor c, rfc) bound to the dna sliding clamp3 (proliferating cell nuclear antigen, pcna) |
| 63 | c1ojf | Alignment | not modelled | 99.6 | 14 | PDB header: response regulator Chain: F: PDB Molecule: transcriptional regulatory protein zrar; PDBTitle: crystal structure of a sigma54-activator suggests the2 mechanism for the conformational switch necessary for3 sigma54 binding |
| 64 | d1sxb2 | Alignment | not modelled | 99.6 | 21 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 65 | c2chgB | Alignment | not modelled | 99.6 | 18 | PDB header: dna-binding protein Chain: B: PDB Molecule: replication factor c small subunit; PDBTitle: replication factor c domains 1 and 2 |
| 66 | c1xxhB | Alignment | not modelled | 99.6 | 23 | PDB header: transferase Chain: B: PDB Molecule: dna polymerase iii subunit gamma; PDBTitle: atpgs bound e. coli clamp loader complex |
| 67 | d1iqa2 | Alignment | not modelled | 99.6 | 23 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 68 | d1sxc2 | Alignment | not modelled | 99.6 | 20 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 69 | c2c9oC | Alignment | not modelled | 99.6 | 21 | PDB header: hydrolase Chain: C: PDB Molecule: ruvb-like 1; PDBTitle: 3d structure of the human ruvb-like helicase ruvb1 |
| 70 | d1jbka | Alignment | not modelled | 99.6 | 21 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 71 | c1hqCB | Alignment | not modelled | 99.6 | 22 | PDB header: hydrolase Chain: B: PDB Molecule: ruvb; PDBTitle: structure of ruvb from thermus thermophilus hb8 |
| 72 | c2hcbC | Alignment | not modelled | 99.6 | 18 | PDB header: replication Chain: C: PDB Molecule: chromosomal replication initiator protein dnaa; PDBTitle: structure of amppcp-bound dnaa from aquifex aeolicus |
| 73 | d1qvra2 | Alignment | not modelled | 99.6 | 24 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 74 | d1l8qa2 | Alignment | not modelled | 99.6 | 18 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 75 | d1fnna2 | Alignment | not modelled | 99.6 | 16 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 76 | d1sxd2 | Alignment | not modelled | 99.6 | 19 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 77 | c3te6A | Alignment | not modelled | 99.6 | 10 | PDB header: gene regulation Chain: A: PDB Molecule: regulatory protein sir3; PDBTitle: crystal structure of the s. cerevisiae sir3 aaa+ domain |
| 78 | c1iqpF | Alignment | not modelled | 99.6 | 24 | PDB header: replication Chain: F: PDB Molecule: rfcs; PDBTitle: crystal structure of the clamp loader small subunit from2 pyrococcus furiosus |

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|-----|-------------------------|-----------|--------------|------|----|---|
| 79 | c1sxB | Alignment | not modelled | 99.6 | 21 | PDB header: replication Chain: B: PDB Molecule: activator 1 37 kda subunit; PDBTitle: crystal structure of the eukaryotic clamp loader2 (replication factor c, rfc) bound to the dna sliding clamp3 (proliferating cell nuclear antigen, pcna) |
| 80 | c2chvE | Alignment | not modelled | 99.5 | 21 | PDB header: dna-binding protein Chain: E: PDB Molecule: replication factor c small subunit; PDBTitle: replication factor c adpnp complex |
| 81 | d1sxje2 | Alignment | not modelled | 99.5 | 17 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 82 | c1ny5A | Alignment | not modelled | 99.5 | 22 | PDB header: transcription Chain: A: PDB Molecule: transcriptional regulator (ntrc family); PDBTitle: crystal structure of sigm54 activator (aaa+ atpase) in the inactive2 state |
| 83 | c3f8tA | Alignment | not modelled | 99.5 | 15 | PDB header: hydrolase Chain: A: PDB Molecule: predicted atpase involved in replication control, PDBTitle: crystal structure analysis of a full-length mcm homolog2 from methanopyrus kandleri |
| 84 | c1sxC | Alignment | not modelled | 99.5 | 19 | PDB header: replication Chain: C: PDB Molecule: activator 1 40 kda subunit; PDBTitle: crystal structure of the eukaryotic clamp loader2 (replication factor c, rfc) bound to the dna sliding clamp3 (proliferating cell nuclear antigen, pcna) |
| 85 | c3dzdA | Alignment | not modelled | 99.5 | 20 | PDB header: transcription regulator Chain: A: PDB Molecule: transcriptional regulator (ntrc family); PDBTitle: crystal structure of sigma54 activator ntrc4 in the inactive2 state |
| 86 | c1sxD | Alignment | not modelled | 99.5 | 20 | PDB header: replication Chain: D: PDB Molecule: activator 1 41 kda subunit; PDBTitle: crystal structure of the eukaryotic clamp loader2 (replication factor c, rfc) bound to the dna sliding clamp3 (proliferating cell nuclear antigen, pcna) |
| 87 | d1oz4a3 | Alignment | not modelled | 99.5 | 22 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 88 | c2z4rB | Alignment | not modelled | 99.5 | 18 | PDB header: dna binding protein Chain: B: PDB Molecule: chromosomal replication initiator protein dnaa; PDBTitle: crystal structure of domain iii from the thermotoga2 maritima replication initiation protein dnaa |
| 89 | c3bosA | Alignment | not modelled | 99.4 | 18 | PDB header: hydrolase regulator,dna binding protein Chain: A: PDB Molecule: putative dna replication factor; PDBTitle: crystal structure of a putative dna replication regulator hda2 (sama_1916) from shewanella amazonensis sb2b at 1.75 a resolution |
| 90 | c2p65A | Alignment | not modelled | 99.4 | 19 | PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein pf08_0063; PDBTitle: crystal structure of the first nucleotide binding domain of2 chaperone clpb1, putative, (pv089580) from plasmodium vivax |
| 91 | c1jr3E | Alignment | not modelled | 99.4 | 20 | PDB header: transferase Chain: E: PDB Molecule: dna polymerase iii, delta' subunit; PDBTitle: crystal structure of the processivity clamp loader gamma2 complex of e. coli dna polymerase iii |
| 92 | d1a5ta2 | Alignment | not modelled | 99.4 | 17 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 93 | d1gvnb | Alignment | not modelled | 99.3 | 11 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Plasmid maintenance system epsilon/zeta, toxin zeta subunit |
| 94 | c1fnnB | Alignment | not modelled | 99.3 | 17 | PDB header: cell cycle Chain: B: PDB Molecule: cell division control protein 6; PDBTitle: crystal structure of cdc6p from pyrobaculum aerophilum |
| 95 | c2qbyA | Alignment | not modelled | 99.2 | 17 | PDB header: replication/dna Chain: A: PDB Molecule: cell division control protein 6 homolog 1; PDBTitle: crystal structure of a heterodimer of cdc6/orc1 initiators2 bound to origin dna (from s. solfataricus) |
| 96 | c3f9vA | Alignment | not modelled | 99.2 | 22 | PDB header: hydrolase Chain: A: PDB Molecule: minichromosome maintenance protein mcm; PDBTitle: crystal structure of a near full-length archaeal mcm: functional2 insights for an aaa+ hexameric helicase |
| 97 | c2v1uA | Alignment | not modelled | 99.2 | 17 | PDB header: replication Chain: A: PDB Molecule: cell division control protein 6 homolog; PDBTitle: structure of the aeropyrum pernix orc1 protein in complex2 with dna |
| 98 | d2gnoa2 | Alignment | not modelled | 99.2 | 15 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 99 | c2qbyB | Alignment | not modelled | 99.2 | 18 | PDB header: replication/dna Chain: B: PDB Molecule: cell division control protein 6 homolog 3; PDBTitle: crystal structure of a heterodimer of cdc6/orc1 initiators2 bound to origin dna (from s. solfataricus) |
| 100 | c2p5tD | Alignment | not modelled | 99.1 | 17 | PDB header: transcription regulator Chain: D: PDB Molecule: pez2; PDBTitle: molecular and structural characterization of the pezat chromosomal2 toxin-antitoxin system of the human pathogen streptococcus pneumoniae |
| 101 | c1w5sB | Alignment | not modelled | 99.1 | 16 | PDB header: replication Chain: B: PDB Molecule: origin recognition complex subunit 2 orc2; PDBTitle: structure of the aeropyrum pernix orc2 protein (adp form) PDB header: replication Chain: A: PDB Molecule: dnaa-related protein; |

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|-----|-------------------------|-----------|--------------|------|----|--|
| 102 | c2kjqA_ | Alignment | not modelled | 99.0 | 18 | PDBTitle: solution structure of protein nmb1076 from neisseria meningitidis.2 northeast structural genomics consortium target mr101b. |
| 103 | c3ec2A_ | Alignment | not modelled | 98.9 | 23 | PDB header: replication Chain: A; PDB Molecule: dna replication protein dnac; PDBTitle: crystal structure of the dnac helicase loader |
| 104 | d2fnaa2 | Alignment | not modelled | 98.8 | 18 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 105 | c2fnaA_ | Alignment | not modelled | 98.7 | 19 | PDB header: atp-binding protein Chain: A; PDB Molecule: conserved hypothetical protein; PDBTitle: crystal structure of an archaeal aaa+ atpase (sso1545) from sulfobolus2 solfataricus p2 at 2.00 a resolution |
| 106 | c2qgzA_ | Alignment | not modelled | 98.6 | 21 | PDB header: hydrolase Chain: A; PDB Molecule: putative primosome component; PDBTitle: crystal structure of a putative primosome component from2 streptococcus pyogenes serotype m3. northeast structural3 genomics target dr58 |
| 107 | c2w58B_ | Alignment | not modelled | 98.6 | 25 | PDB header: hydrolase Chain: B; PDB Molecule: primosome component (helicase loader); PDBTitle: crystal structure of the dnaI |
| 108 | c3co5B_ | Alignment | not modelled | 98.3 | 12 | PDB header: transcription regulator Chain: B; PDB Molecule: putative two-component system transcriptional response PDBTitle: crystal structure of sigma-54 interaction domain of putative2 transcriptional response regulator from neisseria gonorrhoeae |
| 109 | c3qmA_ | Alignment | not modelled | 98.3 | 19 | PDB header: motor protein Chain: A; PDB Molecule: cytoplasmic dynein heavy chain; PDBTitle: crystal structure of the cytoplasmic dynein heavy chain motor domain |
| 110 | d1ye8a1 | Alignment | not modelled | 98.2 | 20 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: RecA protein-like (ATPase-domain) |
| 111 | d1svma_ | Alignment | not modelled | 98.2 | 18 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 112 | c2gnoA_ | Alignment | not modelled | 98.1 | 14 | PDB header: replication Chain: A; PDB Molecule: dna polymerase iii, gamma subunit-related protein; PDBTitle: crystal structure of a dna polymerase iii, gamma subunit-related2 protein (tm0771) from thermotoga maritima msb8 at 2.00 a resolution |
| 113 | d1tuea_ | Alignment | not modelled | 98.0 | 17 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Extended AAA-ATPase domain |
| 114 | c2gxA_ | Alignment | not modelled | 98.0 | 15 | PDB header: replication/dna Chain: A; PDB Molecule: replication protein e1; PDBTitle: crystal structure of papillomavirus e1 hexameric helicase2 with ssdna and mgadp |
| 115 | c3tlxA_ | Alignment | not modelled | 98.0 | 18 | PDB header: transferase Chain: A; PDB Molecule: adenylate kinase 2; PDBTitle: crystal structure of pf10_0086, adenylate kinase from plasmodium2 falciparum |
| 116 | c2og2A_ | Alignment | not modelled | 98.0 | 20 | PDB header: protein transport Chain: A; PDB Molecule: putative signal recognition particle receptor; PDBTitle: crystal structure of chloroplast ftsy from arabiopsis2 thaliana |
| 117 | d1x6va3 | Alignment | not modelled | 97.9 | 11 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Adenosine-5' phosphosulfate kinase (APS kinase) |
| 118 | c3dmdA_ | Alignment | not modelled | 97.9 | 18 | 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 |
| 119 | d1lw7a2 | Alignment | not modelled | 97.9 | 15 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases |
| 120 | c3be4A_ | Alignment | not modelled | 97.9 | 30 | PDB header: transferase Chain: A; PDB Molecule: adenylate kinase; PDBTitle: crystal structure of cryptosporidium parvum adenylate kinase cgd5_3360 |