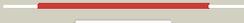
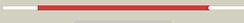
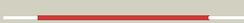
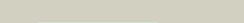
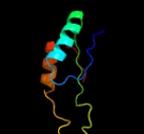
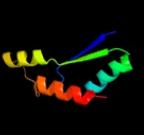
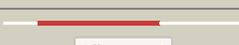


Phyre2

| | |
|---------------|--------------------------------|
| Email | mdejesus@rockefeller.edu |
| Description | RVBD3602c_panC_4044460_4045389 |
| Date | Fri Aug 9 18:20:28 BST 2019 |
| Unique Job ID | 812cd99a3998f5ca |

Detailed template information

| # | Template | Alignment Coverage | 3D Model | Confidence | % i.d. | Template Information |
|----|-------------------------|---|---|------------|--------|---|
| 1 | d2a84a1 |  Alignment |  | 100.0 | 100 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Pantothenate synthetase (Pantoate-beta-alanine ligase, PanC) |
| 2 | c2ejcA |  Alignment |  | 100.0 | 41 | PDB header: ligase Chain: A: PDB Molecule: pantoate--beta-alanine ligase; PDBTitle: crystal structure of pantoate--beta-alanine ligase (panc)2 from thermotoga maritima |
| 3 | d1ihoa |  Alignment |  | 100.0 | 45 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Pantothenate synthetase (Pantoate-beta-alanine ligase, PanC) |
| 4 | c3mxtA |  Alignment |  | 100.0 | 36 | PDB header: ligase Chain: A: PDB Molecule: pantothenate synthetase; PDBTitle: crystal structure of pantoate-beta-alanine ligase from campylobacter2 jejuni |
| 5 | c3ag5A |  Alignment |  | 100.0 | 40 | PDB header: ligase Chain: A: PDB Molecule: pantothenate synthetase; PDBTitle: crystal structure of pantothenate synthetase from staphylococcus2 aureus |
| 6 | d1v8fa |  Alignment |  | 100.0 | 46 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Pantothenate synthetase (Pantoate-beta-alanine ligase, PanC) |
| 7 | c3uk2B |  Alignment |  | 100.0 | 44 | PDB header: ligase Chain: B: PDB Molecule: pantothenate synthetase; PDBTitle: the structure of pantothenate synthetase from burkholderia2 thailandensis |
| 8 | c3innB |  Alignment |  | 100.0 | 44 | PDB header: ligase Chain: B: PDB Molecule: pantothenate synthetase; PDBTitle: crystal structure of pantoate-beta-alanine-ligase in complex2 with atp at low occupancy at 2.1 a resolution |
| 9 | c3n8hA |  Alignment |  | 100.0 | 37 | PDB header: ligase Chain: A: PDB Molecule: pantothenate synthetase; PDBTitle: crystal structure of pantoate-beta-alanine ligase from francisella2 tularensis |
| 10 | c5kwvA |  Alignment |  | 100.0 | 47 | PDB header: ligase Chain: A: PDB Molecule: pantothenate synthetase; PDBTitle: crystal structure of a pantoate-beta-alanine ligase from neisseria2 gonorrhoeae with bound amppnp |
| 11 | c3guzB |  Alignment |  | 100.0 | 48 | PDB header: ligase Chain: B: PDB Molecule: pantothenate synthetase; PDBTitle: structural and substrate-binding studies of pantothenate2 synthenate (ps)provide insights into homotropic inhibition3 by pantoate in ps's |

| | | | | | | |
|----|-------------------------|---|---|------|----|---|
| 12 | c2x0kB_ |  Alignment |  | 97.9 | 14 | PDB header: transferase Chain: B: PDB Molecule: riboflavin biosynthesis protein ribf; PDBTitle: crystal structure of modular fad synthetase from2 corynebacterium ammoniagenes |
| 13 | c5xf2B_ |  Alignment |  | 97.4 | 19 | PDB header: transferase Chain: B: PDB Molecule: putative cytidyltransferase; PDBTitle: crystal structure of semet-hldc from burkholderia pseudomallei |
| 14 | c3glvB_ |  Alignment |  | 97.0 | 20 | PDB header: biosynthetic protein Chain: B: PDB Molecule: lipopolysaccharide core biosynthesis protein; PDBTitle: crystal structure of the lipopolysaccharide core biosynthesis protein2 from thermoplasma volcanium gss1 |
| 15 | c3gmiA_ |  Alignment |  | 96.8 | 16 | PDB header: structural genomics, unknown function Chain: A: PDB Molecule: upf0348 protein mj0951; PDBTitle: crystal structure of a protein of unknown function from2 methanocaldococcus jannaschii |
| 16 | c3elbA_ |  Alignment |  | 96.4 | 16 | PDB header: transferase Chain: A: PDB Molecule: ethanolamine-phosphate cytidyltransferase; PDBTitle: human ctp: phosphoethanolamine cytidyltransferase in complex with2 cmp |
| 17 | d1coza_ |  Alignment |  | 96.3 | 21 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Cytidyltransferase |
| 18 | c4zcsE_ |  Alignment |  | 96.1 | 16 | PDB header: transferase Chain: E: PDB Molecule: choline-phosphate cytidyltransferase; PDBTitle: crystal structure of the c-terminal catalytic domain of plasmodium2 falciparum ctp:phosphocholine cytidyltransferase in complex with3 cdp-choline |
| 19 | c3op1A_ |  Alignment |  | 96.1 | 25 | PDB header: transferase Chain: A: PDB Molecule: macrolide-efflux protein; PDBTitle: crystal structure of macrolide-efflux protein sp_1110 from2 streptococcus pneumoniae |
| 20 | d1qjca_ |  Alignment |  | 95.9 | 19 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Adenylyltransferase |
| 21 | c3ikzA_ |  Alignment | not modelled | 95.9 | 15 | PDB header: transferase Chain: A: PDB Molecule: phosphopantetheine adenylyltransferase; PDBTitle: crystal structure of phosphopantetheine adenylyltransferase from2 burkholderia pseudomallei |
| 22 | c3x1mC_ |  Alignment | not modelled | 95.9 | 15 | PDB header: transferase Chain: C: PDB Molecule: phosphopantetheine adenylyltransferase; PDBTitle: crystal structure of phosphopantetheine adenylyltransferase/ppat from2 pseudomonas aeruginosa with coa |
| 23 | c3nv7A_ |  Alignment | not modelled | 95.9 | 10 | PDB header: transferase Chain: A: PDB Molecule: phosphopantetheine adenylyltransferase; PDBTitle: crystal structure of h.pylori phosphopantetheine adenylyltransferase2 mutant i4v/n76y |
| 24 | c5h16D_ |  Alignment | not modelled | 95.7 | 24 | PDB header: transferase Chain: D: PDB Molecule: phosphopantetheine adenylyltransferase; PDBTitle: crystal structure of the complex of phosphopantetheine2 adenylyltransferase from acinetobacter baumannii with citrate at 2.33 a resolution. |
| 25 | d1vlha_ |  Alignment | not modelled | 95.5 | 17 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Adenylyltransferase |
| 26 | c2b7ID_ |  Alignment | not modelled | 95.5 | 21 | PDB header: transferase Chain: D: PDB Molecule: glycerol-3-phosphate cytidyltransferase; PDBTitle: crystal structure of ctp:glycerol-3-phosphate2 cytidyltransferase from staphylococcus aureus |
| 27 | c6gyeB_ |  Alignment | not modelled | 95.4 | 18 | PDB header: transport protein Chain: B: PDB Molecule: nicotinamide-nucleotide adenylyltransferase nadr family / PDBTitle: crystal structure of nadr protein in complex with nr |
| 28 | c5y0nB_ |  Alignment | not modelled | 95.2 | 24 | PDB header: ligase Chain: B: PDB Molecule: upf0348 protein b4417_3650; PDBTitle: crystal structure of bacillus subtilis tmc1 bound with atp (semet2 derivative) |

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|----|-------------------------|-----------|--------------|------|----|---|
| 29 | d1o6ba | Alignment | not modelled | 95.2 | 18 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Adenylyltransferase |
| 30 | d1mrza2 | Alignment | not modelled | 95.2 | 17 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Adenylyltransferase |
| 31 | c5x3dA | Alignment | not modelled | 95.0 | 18 | PDB header: transferase Chain: A: PDB Molecule: phosphoenolpyruvate phosphomutase; PDBTitle: crystal structure of hep-cmp-bound form of cytidylyltransferase2 (cytase) domain of fom1 from streptomyces wedmorensis |
| 32 | c3e27B | Alignment | not modelled | 95.0 | 16 | PDB header: transferase Chain: B: PDB Molecule: nicotinate (nicotinamide) nucleotide adenylyltransferase; PDBTitle: nicotinic acid mononucleotide (namn) adenylyltransferase from bacillus2 anthracis: product complex |
| 33 | c5y0tD | Alignment | not modelled | 94.5 | 18 | PDB header: ligase Chain: D: PDB Molecule: thermotoga maritima tmcal; PDBTitle: crystal structure of thermotoga maritima tmcal bound with alpha-thio2 atp(form ii) |
| 34 | c1t6zB | Alignment | not modelled | 94.3 | 18 | PDB header: transferase Chain: B: PDB Molecule: riboflavin kinase/fmn adenylyltransferase; PDBTitle: crystal structure of riboflavin bound tm379 |
| 35 | c4f3rC | Alignment | not modelled | 94.3 | 13 | PDB header: transferase Chain: C: PDB Molecule: phosphopantetheine adenylyltransferase; PDBTitle: structure of phosphopantetheine adenylyltransferase (cbu_0288) from2 coxiella burnetii |
| 36 | c3hl4B | Alignment | not modelled | 94.0 | 18 | PDB header: transferase Chain: B: PDB Molecule: choline-phosphate cytidylyltransferase a; PDBTitle: crystal structure of a mammalian ctp:phosphocholine2 cytidylyltransferase with cdp-choline |
| 37 | d1tfua | Alignment | not modelled | 93.9 | 20 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Adenylyltransferase |
| 38 | c3f3mA | Alignment | not modelled | 93.8 | 9 | PDB header: transferase Chain: A: PDB Molecule: phosphopantetheine adenylyltransferase; PDBTitle: six crystal structures of two phosphopantetheine adenylyltransferases2 reveal an alternative ligand binding mode and an associated3 structural change |
| 39 | d1f9aa | Alignment | not modelled | 93.7 | 13 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Adenylyltransferase |
| 40 | c2r5wA | Alignment | not modelled | 92.8 | 15 | PDB header: hydrolase, transferase Chain: A: PDB Molecule: nicotinamide-nucleotide adenylyltransferase; PDBTitle: crystal structure of a bifunctional nmn2 adenylyltransferase/adp ribose pyrophosphatase from3 francisella tularensis |
| 41 | c2h29A | Alignment | not modelled | 92.8 | 7 | PDB header: transferase Chain: A: PDB Molecule: probable nicotinate-nucleotide PDBTitle: crystal structure of nicotinic acid mononucleotide2 adenylyltransferase from staphylococcus aureus: product3 bound form 1 |
| 42 | c1lw7A | Alignment | not modelled | 92.5 | 11 | PDB header: transferase Chain: A: PDB Molecule: transcriptional regulator nadr; PDBTitle: nadr protein from haemophilus influenzae |
| 43 | d1lw7a1 | Alignment | not modelled | 92.4 | 15 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Adenylyltransferase |
| 44 | c3nd5D | Alignment | not modelled | 92.4 | 20 | PDB header: transferase Chain: D: PDB Molecule: phosphopantetheine adenylyltransferase; PDBTitle: crystal structure of phosphopantetheine adenylyltransferase (ppat)2 from enterococcus faecalis |
| 45 | d1od6a | Alignment | not modelled | 92.0 | 31 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Adenylyltransferase |
| 46 | d1jhda2 | Alignment | not modelled | 91.9 | 18 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: ATP sulfurylase catalytic domain |
| 47 | c1v47B | Alignment | not modelled | 91.9 | 24 | PDB header: transferase Chain: B: PDB Molecule: atp sulfurylase; PDBTitle: crystal structure of atp sulfurylase from thermus2 thermophilus hb8 in complex with aps |
| 48 | c5lltB | Alignment | not modelled | 91.7 | 2 | PDB header: transferase Chain: B: PDB Molecule: nicotinate-nucleotide adenylyltransferase; PDBTitle: plasmodium falciparum nicotinic acid mononucleotide2 adenylyltransferase complexed with naad |
| 49 | c1yunB | Alignment | not modelled | 91.6 | 20 | PDB header: transferase Chain: B: PDB Molecule: probable nicotinate-nucleotide PDBTitle: crystal structure of nicotinic acid mononucleotide2 adenylyltransferase from pseudomonas aeruginosa |
| 50 | c4rpiA | Alignment | not modelled | 91.4 | 26 | PDB header: transferase Chain: A: PDB Molecule: nicotinate-nucleotide adenylyltransferase; PDBTitle: crystal structure of nicotinate mononucleotide adenylyltransferase2 from mycobacterium tuberculosis |
| 51 | c3cr8C | Alignment | not modelled | 90.9 | 12 | PDB header: transferase Chain: C: PDB Molecule: sulfate adenylyltransferase, adenylylsulfate kinase; PDBTitle: hexameric aps kinase from thiobacillus denitrificans |
| 52 | d1ej2a | Alignment | not modelled | 90.7 | 20 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Adenylyltransferase |
| 53 | c2qjoB | Alignment | not modelled | 90.3 | 19 | PDB header: transferase, hydrolase Chain: B: PDB Molecule: bifunctional nmn adenylyltransferase/nudix hydrolase; PDBTitle: crystal structure of a bifunctional nmn |

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|----|-------------------------|-----------|--------------|------|----|---|
| | | | | | | adenylyltransferase/adp ribose2 pyrophosphatase (nadm) complexed with adprp and nad from3 synechocystis sp. |
| 54 | c1m8pB_ | Alignment | not modelled | 89.7 | 19 | PDB header: transferase Chain: B: PDB Molecule: sulfate adenylyltransferase; PDBTitle: crystal structure of p. chrysogenum atp sulfurylase in the t-state |
| 55 | c4wsoA_ | Alignment | not modelled | 89.7 | 31 | PDB header: transferase Chain: A: PDB Molecule: probable nicotinate-nucleotide adenylyltransferase; PDBTitle: x-ray crystal structure of a nicotinate nucleotide adenylyltransferase2 from burkholderia thailandensis bound to nad |
| 56 | c2gksB_ | Alignment | not modelled | 89.6 | 27 | PDB header: transferase Chain: B: PDB Molecule: bifunctional sat/aps kinase; PDBTitle: crystal structure of the bi-functional atp sulfurylase-aps kinase from2 aquifex aeolicus, a chemolithotrophic thermophile |
| 57 | d1g8fa2 | Alignment | not modelled | 89.3 | 19 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: ATP sulfurylase catalytic domain |
| 58 | d1v47a2 | Alignment | not modelled | 89.3 | 21 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: ATP sulfurylase catalytic domain |
| 59 | c1r6xA_ | Alignment | not modelled | 88.8 | 20 | PDB header: transferase Chain: A: PDB Molecule: atp:sulfate adenylyltransferase; PDBTitle: the crystal structure of a truncated form of yeast atp2 sulfurylase, lacking the c-terminal aps kinase-like domain,3 in complex with sulfate |
| 60 | c3h05A_ | Alignment | not modelled | 88.5 | 8 | PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein vpa0413; PDBTitle: the crystal structure of a putative nicotinate-nucleotide2 adenylyltransferase from vibrio parahaemolyticus |
| 61 | d1m8pa2 | Alignment | not modelled | 88.4 | 21 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: ATP sulfurylase catalytic domain |
| 62 | c2cycB_ | Alignment | not modelled | 87.7 | 11 | PDB header: ligase Chain: B: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: crystal structure of tyrosyl-trna synthetase complexed with l-tyrosine2 from pyrococcus horikoshii |
| 63 | c1jhdA_ | Alignment | not modelled | 87.3 | 17 | PDB header: transferase Chain: A: PDB Molecule: sulfate adenylyltransferase; PDBTitle: crystal structure of bacterial atp sulfurylase from the2 riftia pachyptila symbiont |
| 64 | c2cybA_ | Alignment | not modelled | 86.8 | 15 | PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: crystal structure of tyrosyl-trna synthetase complexed with2 l-tyrosine from archaeoglobus fulgidus |
| 65 | d1kama_ | Alignment | not modelled | 86.7 | 18 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Adenylyltransferase |
| 66 | c4mvcA_ | Alignment | not modelled | 85.8 | 29 | PDB header: transferase Chain: A: PDB Molecule: choline-phosphate cytidyl transferase a; PDBTitle: crystal structure of a mammalian cytidyl transferase |
| 67 | c1g8gB_ | Alignment | not modelled | 83.6 | 21 | PDB header: transferase Chain: B: PDB Molecule: sulfate adenylyltransferase; PDBTitle: atp sulfurylase from s. cerevisiae: the binary product complex with2 aps |
| 68 | d1kr2a_ | Alignment | not modelled | 83.3 | 17 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Adenylyltransferase |
| 69 | c3vgjB_ | Alignment | not modelled | 83.2 | 12 | PDB header: ligase Chain: B: PDB Molecule: tyrosyl-trna synthetase, putative; PDBTitle: crystal of plasmodium falciparum tyrosyl-trna synthetase (pftyrrs)in2 complex with adenylate analog |
| 70 | d1nuua_ | Alignment | not modelled | 82.7 | 15 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Adenylyltransferase |
| 71 | c2j5bA_ | Alignment | not modelled | 82.7 | 12 | PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: structure of the tyrosyl trna synthetase from acanthamoeba polyphaga2 mimivirus complexed with tyrosinol |
| 72 | c3focB_ | Alignment | not modelled | 82.6 | 17 | PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: tryptophanyl-trna synthetase from giardia lamblia |
| 73 | c3do8B_ | Alignment | not modelled | 79.2 | 32 | PDB header: transferase Chain: B: PDB Molecule: phosphopantetheine adenylyltransferase; PDBTitle: the crystal structure of the protein with unknown function from2 archaeoglobus fulgidus |
| 74 | d1x6va2 | Alignment | not modelled | 78.8 | 10 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: ATP sulfurylase catalytic domain |
| 75 | d1i6la_ | Alignment | not modelled | 74.6 | 16 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain |
| 76 | d1k4ma_ | Alignment | not modelled | 73.9 | 23 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Adenylyltransferase |
| 77 | c1xjqA_ | Alignment | not modelled | 69.4 | 10 | PDB header: transferase Chain: A: PDB Molecule: bifunctional 3'-phosphoadenosine 5'-phosphosulfate PDBTitle: adp complex of human paps synthetase 1 |
| 78 | c1xnjB_ | Alignment | not modelled | 65.1 | 13 | PDB header: transferase Chain: B: PDB Molecule: bifunctional 3'-phosphoadenosine 5'-phosphosulfate PDBTitle: aps complex of human paps synthetase 1 |
| 79 | c2ivpB_ | Alignment | not modelled | 63.6 | 15 | PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; |

| | | | | | | |
|-----|-------------------------|-----------|--------------|------|----|--|
| 79 | c3jx6B | Alignment | not modelled | 63.8 | 13 | PDBTitle: crystal structure of pyrococcus horikoshii tryptophanyl-trna2 synthetase in complex with trpamp |
| 80 | c3ctzA | Alignment | not modelled | 62.6 | 10 | PDB header: hydrolase Chain: A: PDB Molecule: xaa-pro aminopeptidase 1; PDBTitle: structure of human cytosolic x-prolyl aminopeptidase |
| 81 | c1h3eA | Alignment | not modelled | 61.7 | 17 | PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: tyrosyl-trna synthetase from thermus thermophilus complexed with wild-2 type trnatyr(gua) and with atp and tyrosinol |
| 82 | c6byqA | Alignment | not modelled | 60.7 | 20 | PDB header: ligase Chain: A: PDB Molecule: tyrosine--trna ligase; PDBTitle: crystal structure of tyrosine-trna ligase from helicobacter pylori g27 |
| 83 | c2yv4A | Alignment | not modelled | 59.5 | 15 | PDB header: rna binding protein Chain: A: PDB Molecule: hypothetical protein ph0435; PDBTitle: crystal structure of c-terminal sua5 domain from pyrococcus horikoshii2 hypothetical sua5 protein ph0435 |
| 84 | c3igsB | Alignment | not modelled | 59.4 | 21 | PDB header: isomerase Chain: B: PDB Molecule: n-acetylmannosamine-6-phosphate 2-epimerase 2; PDBTitle: structure of the salmonella enterica n-acetylmannosamine-6-phosphate2 2-epimerase |
| 85 | c3prhB | Alignment | not modelled | 58.3 | 13 | PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: tryptophanyl-trna synthetase val144pro mutant from b. subtilis |
| 86 | c2cyaA | Alignment | not modelled | 58.2 | 14 | PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: crystal structure of tyrosyl-trna synthetase from aeropyrum pernix |
| 87 | c6otjA | Alignment | not modelled | 55.2 | 20 | PDB header: ligase Chain: A: PDB Molecule: tyrosine--trna ligase; PDBTitle: crystal structure of tyrosyl-trna synthetase from neisseria2 gonorrhoeae with bound l-tyr |
| 88 | c2yy5C | Alignment | not modelled | 50.5 | 14 | PDB header: ligase Chain: C: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from mycoplasma2 pneumoniae |
| 89 | d1zh8a1 | Alignment | not modelled | 50.1 | 12 | Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Glyceraldehyde-3-phosphate dehydrogenase-like, N-terminal domain |
| 90 | c2g36A | Alignment | not modelled | 49.5 | 22 | PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase (ec 6.1.1.2)2 (tryptophan-trna ligase)(trprs) (tm0492) from thermotoga maritima at3 2.50 a resolution |
| 91 | c2qjfB | Alignment | not modelled | 49.0 | 15 | PDB header: transferase Chain: B: PDB Molecule: bifunctional 3'-phosphoadenosine 5'- PDBTitle: crystal structure of atp-sulfurylase domain of human paps2 synthetase 1 |
| 92 | c1q11A | Alignment | not modelled | 47.9 | 12 | PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: crystal structure of an active fragment of human tyrosyl-trna2 synthetase with tyrosinol |
| 93 | c2xsbA | Alignment | not modelled | 47.4 | 21 | PDB header: hydrolase Chain: A: PDB Molecule: hyaluronoglucosaminidase; PDBTitle: ogoga pugnac complex |
| 94 | d1xjca | Alignment | not modelled | 46.9 | 26 | Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like |
| 95 | d2f48a1 | Alignment | not modelled | 46.6 | 23 | Fold: Phosphofructokinase Superfamily: Phosphofructokinase Family: Phosphofructokinase |
| 96 | c4s2tP | Alignment | not modelled | 45.5 | 13 | PDB header: hydrolase/hydrolase inhibitor Chain: P: PDB Molecule: protein app-1; PDBTitle: crystal structure of x-prolyl aminopeptidase from caenorhabditis2 elegans: a cytosolic enzyme with a di-nuclear active site |
| 97 | c2ip1A | Alignment | not modelled | 42.8 | 11 | PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure analysis of s. cerevisiae tryptophanyl trna2 synthetase |
| 98 | c2higA | Alignment | not modelled | 42.7 | 17 | PDB header: transferase Chain: A: PDB Molecule: 6-phospho-1-fructokinase; PDBTitle: crystal structure of phosphofructokinase apoenzyme from trypanosoma2 brucei. |
| 99 | c3n9iA | Alignment | not modelled | 42.7 | 20 | PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from yersinia pestis2 co92 |
| 100 | c4pt2B | Alignment | not modelled | 40.9 | 30 | PDB header: virus like particle Chain: B: PDB Molecule: encapsulin protein; PDBTitle: myxococcus xanthus encapsulin protein (enca) |
| 101 | c5b19A | Alignment | not modelled | 40.9 | 17 | PDB header: isomerase Chain: A: PDB Molecule: aspartate racemase; PDBTitle: picophilus torridus aspartate racemase |
| 102 | c6bqzA | Alignment | not modelled | 39.5 | 22 | PDB header: ligase Chain: A: PDB Molecule: tyrosine--trna ligase; PDBTitle: crystal structure of tyrosine-trna synthetase from acetobacter2 baumannii with bound l-tyrosine |
| 103 | c4oudB | Alignment | not modelled | 39.5 | 23 | PDB header: ligase Chain: B: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: engineered tyrosyl-trna synthetase with the nonstandard amino acid l-2 4,4-biphenylalanine |
| 104 | c3p0jD | Alignment | not modelled | 39.5 | 14 | PDB header: ligase Chain: D: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: leishmania major tyrosyl-trna synthetase in complex with tyrosinol,2 triclinic crystal form 1 |

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|-----|-------------------------|-----------|--------------|------|----|--|
| 105 | d1fpza_ | Alignment | not modelled | 39.5 | 21 | Fold: (Phosphotyrosine protein) phosphatases II Superfamily: (Phosphotyrosine protein) phosphatases II Family: Dual specificity phosphatase-like |
| 106 | c4oh7B_ | Alignment | not modelled | 39.1 | 17 | PDB header: transferase Chain: B: PDB Molecule: ornithine carbamoyltransferase; PDBTitle: crystal structure of ornithine carbamoyltransferase from brucella2 melitensis |
| 107 | c1zxaA_ | Alignment | not modelled | 38.3 | 21 | PDB header: transferase Chain: A: PDB Molecule: 6-phosphofructokinase; PDBTitle: the crystal structure of phosphofructokinase from lactobacillus2 delbrueckii |
| 108 | c2jmlA_ | Alignment | not modelled | 38.0 | 12 | PDB header: transcription Chain: A: PDB Molecule: dna binding domain/transcriptional regulator; PDBTitle: solution structure of the n-terminal domain of cara repressor |
| 109 | c2janD_ | Alignment | not modelled | 37.7 | 17 | PDB header: ligase Chain: D: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: tyrosyl-trna synthetase from mycobacterium tuberculosis in2 unliganded state |
| 110 | d1vi9a_ | Alignment | not modelled | 37.1 | 14 | Fold: Ribokinase-like Superfamily: Ribokinase-like Family: PfkB-like kinase |
| 111 | c3wg9D_ | Alignment | not modelled | 36.8 | 14 | PDB header: transcription Chain: D: PDB Molecule: redox-sensing transcriptional repressor rex; PDBTitle: crystal structure of rsp, a rex-family repressor |
| 112 | c4ew6A_ | Alignment | not modelled | 36.6 | 8 | PDB header: oxidoreductase Chain: A: PDB Molecule: d-galactose-1-dehydrogenase protein; PDBTitle: crystal structure of d-galactose-1-dehydrogenase protein from2 rhizobium etli |
| 113 | c4oudA_ | Alignment | not modelled | 36.4 | 23 | PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: engineered tyrosyl-trna synthetase with the nonstandard amino acid l-2 4,4-biphenylalanine |
| 114 | d1jlua_ | Alignment | not modelled | 36.1 | 14 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain |
| 115 | c5ijxA_ | Alignment | not modelled | 35.7 | 13 | PDB header: ligase Chain: A: PDB Molecule: tyrosine--trna ligase, mitochondrial; PDBTitle: crystal structure of a c-terminally truncated coccidioides posadasii2 mitochondrial tyrosyl-trna synthetase |
| 116 | c2pqmA_ | Alignment | not modelled | 35.6 | 12 | PDB header: lyase Chain: A: PDB Molecule: cysteine synthase; PDBTitle: crystal structure of cysteine synthase (oass) from entamoeba2 histolytica at 1.86 a resolution |
| 117 | c6mtkA_ | Alignment | not modelled | 35.5 | 21 | PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from elizabethkingia2 anophelis nuhp1 |
| 118 | c4s1aB_ | Alignment | not modelled | 34.9 | 9 | PDB header: unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a hypothetical protein cthe_0052 from2 ruminiclostridium thermocellum atcc 27405 |
| 119 | d1ekxa2 | Alignment | not modelled | 34.5 | 15 | Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase |
| 120 | d1emsa2 | Alignment | not modelled | 34.4 | 17 | Fold: Carbon-nitrogen hydrolase Superfamily: Carbon-nitrogen hydrolase Family: Nitrilase |