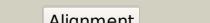
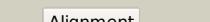
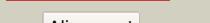
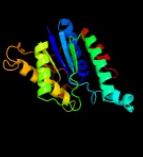
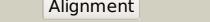
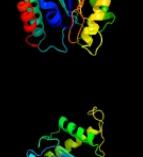
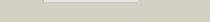
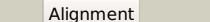


Phyre²

| | |
|---------------|---------------------------------|
| Email | mdejesus@rockefeller.edu |
| Description | RVBD1170_(mshB)_1300309_1301220 |
| Date | Wed Jul 31 22:05:25 BST 2019 |
| Unique Job ID | ea6f380e0d22efab |

Detailed template information

| # | Template | Alignment Coverage | 3D Model | Confidence | % i.d. | Template Information |
|----|-------------------------|---|---|------------|--------|---|
| 1 | c1q7tA_ |  |  | 100.0 | 100 | PDB header: hydrolase Chain: A: PDB Molecule: hypothetical protein rv1170; PDBTitle: rv1170 (mshb) from mycobacterium tuberculosis |
| 2 | d1g74a_ |  |  | 100.0 | 99 | Fold: LmbE-like Superfamily: LmbE-like Family: LmbE-like |
| 3 | c3we7A_ |  |  | 100.0 | 23 | PDB header: hydrolase Chain: A: PDB Molecule: putative uncharacterized protein ph0499; PDBTitle: crystal structure of diacetylchitobiose deacetylase from pyrococcus2 horikoshii |
| 4 | c5bmoB_ |  |  | 100.0 | 31 | PDB header: hydrolase Chain: B: PDB Molecule: putative uncharacterized protein lnmx; PDBTitle: lnmx protein, a putative glcnac-pi de-n-acetylase from streptomyces2 atroolivaceus |
| 5 | c5cgzA_ |  |  | 100.0 | 23 | PDB header: lyase Chain: A: PDB Molecule: 4-oxalomesaconate hydratase; PDBTitle: crystal structure of galb, the 4-carboxy-2-hydroxymuconate hydratase,2 from pseudomonas putida kt2440 |
| 6 | c3dfmA_ |  |  | 100.0 | 25 | PDB header: hydrolase Chain: A: PDB Molecule: teicoplanin pseudoaglycone deacetylase orf2; PDBTitle: the crystal structure of the zinc inhibited form of2 teicoplanin deacetylase orf2 |
| 7 | c3dfiA_ |  |  | 100.0 | 27 | PDB header: hydrolase Chain: A: PDB Molecule: pseudoaglycone deacetylase dbv21; PDBTitle: the crystal structure of antimicrobial reagent a40926 pseudoaglycone2 deacetylase dbv21 |
| 8 | d1uana_ |  |  | 100.0 | 32 | Fold: LmbE-like Superfamily: LmbE-like Family: LmbE-like |
| 9 | c2ixdB_ |  |  | 100.0 | 23 | PDB header: hydrolase Chain: B: PDB Molecule: lmbe-related protein; PDBTitle: crystal structure of the putative deacetylase bc1534 from bacillus2 cereus |
| 10 | c3beoA_ |  |  | 94.9 | 16 | PDB header: isomerase Chain: A: PDB Molecule: udp-n-acetylglucosamine 2-epimerase; PDBTitle: a structural basis for the allosteric regulation of non-2 hydrolyzing udp-glcnac 2-epimerases |
| 11 | c1t9gR_ |  |  | 94.2 | 16 | PDB header: oxidoreductase, electron transport Chain: R: PDB Molecule: electron transfer flavoprotein alpha-subunit, PDBTitle: structure of the human mcad:etf complex |

| | | | | | | |
|----|-------------------------|--|--------------|------|----|--|
| 12 | d1efva1 | | | 93.8 | 16 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Adenine nucleotide alpha hydrolases-like Family: ETFP subunits |
| 13 | c1efva_ | | | 92.2 | 16 | PDB header: electron transport Chain: A: PDB Molecule: electron transfer flavoprotein; PDBTitle: three-dimensional structure of human electron transfer2 flavoprotein to 2.1 a resolution |
| 14 | d1dxqa_ | | | 90.8 | 26 | Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Quinone reductase |
| 15 | d1qrda_ | | | 89.6 | 23 | Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Quinone reductase |
| 16 | c4gi5B_ | | | 89.5 | 28 | PDB header: oxidoreductase Chain: B: PDB Molecule: quinone reductase; PDBTitle: crystal structure of a putative quinone reductase from klebsiella2 pneumoniae (target psi-013613) |
| 17 | c3ih5A_ | | | 87.4 | 21 | PDB header: electron transport Chain: A: PDB Molecule: electron transfer flavoprotein alpha-subunit; PDBTitle: crystal structure of electron transfer flavoprotein alpha-subunit from2 bacteroides thetaiotaomicron |
| 18 | d1d4aa_ | | | 87.0 | 27 | Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Quinone reductase |
| 19 | c4hwgA_ | | | 86.5 | 15 | PDB header: isomerase Chain: A: PDB Molecule: udp-n-acetylglucosamine 2-epimerase; PDBTitle: structure of udp-n-acetylglucosamine 2-epimerase from rickettsia2 bellii |
| 20 | d1o94c_ | | | 85.6 | 20 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Adenine nucleotide alpha hydrolases-like Family: ETFP subunits |
| 21 | d1f0ka_ | | not modelled | 85.1 | 17 | Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Peptidoglycan biosynthesis glycosyltransferase MurG |
| 22 | c1o94D_ | | not modelled | 85.0 | 23 | PDB header: electron transport Chain: D: PDB Molecule: electron transfer flavoprotein alpha-subunit; PDBTitle: ternary complex between trimethylamine dehydrogenase and2 electron transferring flavoprotein |
| 23 | d3clsc1 | | not modelled | 85.0 | 25 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Adenine nucleotide alpha hydrolases-like Family: ETFP subunits |
| 24 | c3clrD_ | | not modelled | 84.6 | 27 | PDB header: electron transport Chain: D: PDB Molecule: electron transfer flavoprotein subunit alpha; PDBTitle: crystal structure of the r236a etf mutant from m. methylotrophus |
| 25 | c3f2vA_ | | not modelled | 83.8 | 19 | PDB header: structural genomics, unknown function Chain: A: PDB Molecule: general stress protein 14; PDBTitle: crystal structure of the general stress protein 14 (tde0354) in2 complex with fmn from treponema denticola, northeast structural3 genomics consortium target tdr58. |
| 26 | d3cls1 | | not modelled | 83.1 | 23 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Adenine nucleotide alpha hydrolases-like Family: ETFP subunits |
| 27 | d2qwx1 | | not modelled | 81.7 | 18 | Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Quinone reductase |
| | | | | | | PDB header: flavoprotein Chain: E: PDB Molecule: electron transfer flavoprotein small |

| | | | | | | |
|----|-------------------------|-----------|--------------|------|----|--|
| 28 | c5ol2E | Alignment | not modelled | 81.7 | 29 | subunit; PDBTitle: the electron transferring flavoprotein/butyryl-coa dehydrogenase2 complex from clostridium difficile |
| 29 | c4nesA | Alignment | not modelled | 80.6 | 14 | PDB header: isomerase Chain: A: PDB Molecule: udp-n-acetylglucosamine 2-epimerase; PDBTitle: crystal structure of methanocoldococcus jannaschii udp-glcNAc 2-2 epimerase in complex with udp-glcNAc and udp |
| 30 | c3ot5D | Alignment | not modelled | 80.3 | 15 | PDB header: isomerase Chain: D: PDB Molecule: udp-n-acetylglucosamine 2-epimerase; PDBTitle: 2.2 angstrom resolution crystal structure of putative udp-n-2 acetylglucosamine 2-epimerase from listeria monocytogenes |
| 31 | d1efpb | Alignment | not modelled | 79.9 | 20 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Adenine nucleotide alpha hydrolases-like Family: ETFP subunits |
| 32 | c3ha2B | Alignment | not modelled | 79.6 | 14 | PDB header: oxidoreductase Chain: B: PDB Molecule: nadph-quinone reductase; PDBTitle: crystal structure of protein (nadph-quinone reductase) from 2 p.pentosaceus, northeast structural genomics consortium target ptr24a |
| 33 | c5w8sA | Alignment | not modelled | 77.4 | 20 | PDB header: transferase Chain: A: PDB Molecule: lipid-a-disaccharide synthase; PDBTitle: lipid a disaccharide synthase (lpbx)-7 solubilizing mutations |
| 34 | d1rrva | Alignment | not modelled | 76.6 | 17 | Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Gtf glycosyltransferase |
| 35 | c4l2iA | Alignment | not modelled | 75.2 | 21 | PDB header: electron transport Chain: A: PDB Molecule: electron transfer flavoprotein alpha subunit; PDBTitle: electron transferring flavoprotein of acidaminococcus fermentans:2 towards a mechanism of flavin-based electron bifurcation |
| 36 | c3dzca | Alignment | not modelled | 73.8 | 15 | PDB header: isomerase Chain: A: PDB Molecule: udp-n-acetylglucosamine 2-epimerase; PDBTitle: 2.35 angstrom resolution structure of wecb (vc0917), a udp-n-2 acetylglucosamine 2-epimerase from vibrio cholerae. |
| 37 | c5lvaA | Alignment | not modelled | 72.8 | 14 | PDB header: oxidoreductase Chain: A: PDB Molecule: nad(p)h-fmn oxidoreductase; PDBTitle: crystal structure of thermophilic tryptophan halogenase (th-hal)2 enzyme from streptomycin violaceusniger. |
| 38 | c3s2uA | Alignment | not modelled | 72.6 | 18 | PDB header: transferase Chain: A: PDB Molecule: udp-n-acetylglucosamine--n-acetylmuramyl-(pentapeptide) PDBTitle: crystal structure of the pseudomonas aeruginosa murG:udp-glcnac2 substrate complex |
| 39 | d1i3ca | Alignment | not modelled | 72.3 | 10 | Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related |
| 40 | c6fahB | Alignment | not modelled | 72.2 | 30 | PDB header: flavoprotein Chain: B: PDB Molecule: caffeyl-coa reductase-etf complex subunit card; PDBTitle: molecular basis of the flavin-based electron-bifurcating caffeyl-coa2 reductase reaction |
| 41 | c3eywA | Alignment | not modelled | 72.1 | 14 | PDB header: transport protein Chain: A: PDB Molecule: c-terminal domain of glutathione-regulated potassium-efflux PDBTitle: crystal structure of the c-terminal domain of e. coli kefc in complex2 with keff |
| 42 | d1v4va | Alignment | not modelled | 70.9 | 16 | Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDP-N-acetylglucosamine 2-epimerase |
| 43 | c5gl5B | Alignment | not modelled | 67.5 | 12 | PDB header: transferase Chain: B: PDB Molecule: sterol 3-beta-glucosyltransferase; PDBTitle: sterol 3-beta-glucosyltransferase (ugt51) from saccharomyces2 cerevisiae (strain atcc 204508 / s288c): udpg complex |
| 44 | c6fahE | Alignment | not modelled | 66.1 | 14 | PDB header: flavoprotein Chain: E: PDB Molecule: caffeyl-coa reductase-etf complex subunit care; PDBTitle: molecular basis of the flavin-based electron-bifurcating caffeyl-coa2 reductase reaction |
| 45 | c3ia7A | Alignment | not modelled | 65.5 | 15 | PDB header: transferase Chain: A: PDB Molecule: calg4; PDBTitle: crystal structure of calg4, the calicheamicin glycosyltransferase |
| 46 | d2acva1 | Alignment | not modelled | 63.8 | 9 | Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDPGT-like |
| 47 | d1di6a | Alignment | not modelled | 61.9 | 26 | Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MogA-like |
| 48 | c2r60A | Alignment | not modelled | 61.9 | 33 | PDB header: transferase Chain: A: PDB Molecule: glycosyl transferase, group 1; PDBTitle: structure of apo sucrose phosphate synthase (sps) of2 halothermothrix oroenii |
| 49 | c1telA | Alignment | not modelled | 60.2 | 17 | PDB header: structural genomics, unknown function Chain: A: PDB Molecule: ribulose bisphosphate carboxylase, large subunit; PDBTitle: crystal structure of a rubisco-like protein from chlorobium2 tepidum |
| 50 | d1ej7I | Alignment | not modelled | 58.4 | 20 | Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain |
| 51 | c3fk4A | Alignment | not modelled | 57.9 | 24 | PDB header: isomerase Chain: A: PDB Molecule: rubisco-like protein; PDBTitle: crystal structure of rubisco-like protein from bacillus2 cereus atcc 14579 |
| | | | | | | PDB header: transferase |

| | | | | | | |
|----|-------------------------|-----------|--------------|------|----|---|
| 52 | c5du2B | Alignment | not modelled | 57.6 | 21 | Chain: B; PDB Molecule: espg2 glycosyltransferase; PDBTitle: structural analysis of espg2 glycosyltransferase |
| 53 | d1efvb | Alignment | not modelled | 56.8 | 15 | Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Adenine nucleotide alpha hydrolases-like Family: ETFP subunits |
| 54 | c9rubB | Alignment | not modelled | 56.4 | 25 | PDB header: lyase(carbon-carbon) Chain: B; PDB Molecule: ribulose-1,5-bisphosphate carboxylase; PDBTitle: crystal structure of activated ribulose-1,5-bisphosphate carboxylase2 complexed with its substrate, ribulose-1,5-bisphosphate |
| 55 | c6hunA | Alignment | not modelled | 55.7 | 29 | PDB header: photosynthesis Chain: A; PDB Molecule: ribulose bisphosphate carboxylase; PDBTitle: dimeric archeal rubisco from hyperthermus butylicus |
| 56 | c4r3uD | Alignment | not modelled | 55.2 | 14 | PDB header: isomerase Chain: D; PDB Molecule: 2-hydroxyisobutyryl-coa mutase small subunit; PDBTitle: crystal structure of 2-hydroxyisobutyryl-coa mutase |
| 57 | d1wdda1 | Alignment | not modelled | 55.0 | 20 | Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain |
| 58 | c2iyaB | Alignment | not modelled | 54.7 | 11 | PDB header: transferase Chain: B; PDB Molecule: oleandomycin glycosyltransferase; PDBTitle: the crystal structure of macrolide glycosyltransferases: a blueprint2 for antibiotic engineering |
| 59 | c1rldB | Alignment | not modelled | 54.7 | 20 | PDB header: lyase(carbon-carbon) Chain: B; PDB Molecule: ribulose 1,5 bisphosphate carboxylase/oxygenase (large PDBTitle: solid-state phase transition in the crystal structure of ribulose 1,5-2 bisphosphate carboxylase(slash)oxygenase |
| 60 | d1bwva1 | Alignment | not modelled | 54.3 | 30 | Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain |
| 61 | c3wrB | Alignment | not modelled | 54.3 | 16 | PDB header: oxidoreductase Chain: B; PDB Molecule: gallate dioxygenase; PDBTitle: crystal structure of the anaerobic h124f desb-gallate complex |
| 62 | c1bwvA | Alignment | not modelled | 54.3 | 30 | PDB header: lyase Chain: A; PDB Molecule: protein (ribulose bisphosphate carboxylase); PDBTitle: activated ribulose 1,5-bisphosphate carboxylase/oxygenase (rubisco)2 complexed with the reaction intermediate analogue 2-carboxyarabinitol3 1,5-bisphosphate |
| 63 | d1svda1 | Alignment | not modelled | 53.9 | 20 | Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain |
| 64 | c2yxBA | Alignment | not modelled | 53.6 | 11 | PDB header: isomerase Chain: A; PDB Molecule: coenzyme b12-dependent mutase; PDBTitle: crystal structure of the methylmalonyl-coa mutase alpha-subunit from2 aeropyrum pernix |
| 65 | c1jqaO | Alignment | not modelled | 53.4 | 17 | PDB header: lyase Chain: A; PDB Molecule: phosphoenolpyruvate carboxylase; PDBTitle: crystal structure of c4-form phosphoenolpyruvate carboxylase from2 maize |
| 66 | d1jqoa | Alignment | not modelled | 53.4 | 17 | Fold: TIM beta/alpha-barrel Superfamily: Phosphoenolpyruvate/pyruvate domain Family: Phosphoenolpyruvate carboxylase |
| 67 | c5macD | Alignment | not modelled | 53.0 | 20 | PDB header: lyase Chain: D; PDB Molecule: ribulose-1,5-bisphosphate carboxylase-oxygenase type iii; PDBTitle: crystal structure of decameric methanococcoides burtonii rubisco2 complexed with 2-carboxyarabinitol bisphosphate |
| 68 | c3iaaB | Alignment | not modelled | 52.3 | 25 | PDB header: transferase Chain: B; PDB Molecule: calg2; PDBTitle: crystal structure of calg2, calicheamicin glycosyltransferase, tdp2 bound form |
| 69 | c5enzA | Alignment | not modelled | 52.1 | 15 | PDB header: isomerase Chain: A; PDB Molecule: udp-glcnac 2-epimerase; PDBTitle: s. aureus mnaa-udp co-structure |
| 70 | c3jx9B | Alignment | not modelled | 51.9 | 19 | PDB header: isomerase Chain: B; PDB Molecule: putative phosphoheptose isomerase; PDBTitle: crystal structure of putative phosphoheptose isomerase2 (yp_001815198.1) from exiguobacterium sp. 255-15 at 1.95 a resolution |
| 71 | c1rcxH | Alignment | not modelled | 51.4 | 20 | PDB header: lyase (carbon-carbon) Chain: H; PDB Molecule: ribulose bisphosphate carboxylase/oxygenase; PDBTitle: non-activated spinach rubisco in complex with its substrate2 ribulose-1,5-bisphosphate |
| 72 | d8ruca1 | Alignment | not modelled | 51.2 | 20 | Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain |
| 73 | c2qygC | Alignment | not modelled | 50.8 | 22 | PDB header: unknown function Chain: C; PDB Molecule: ribulose bisphosphate carboxylase-like protein 2; PDBTitle: crystal structure of a rubisco-like protein rlp2 from rhopspseudomonas2 palustris |
| 74 | c2oemA | Alignment | not modelled | 50.4 | 29 | PDB header: isomerase Chain: A; PDB Molecule: 2,3-diketo-5-methylthiopentyl-1-phosphate enolase; PDBTitle: crystal structure of a rubisco-like protein from geobacillus2 kaustophilus liganded with mg2+ and 2,3-diketohexane 1-phosphate |
| 75 | d1rlba1 | Alignment | not modelled | 50.3 | 22 | Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain |
| | | | | | | PDB header: lyase |

| | | | | | | | |
|-----|-------------------------|--|-----------|--------------|------|----|--|
| 76 | c2d69B | | Alignment | not modelled | 50.1 | 27 | Chain: B; PDB Molecule: ribulose bisphosphate carboxylase; PDBTitle: crystal structure of the complex of sulfate ion and octameric2 ribulose-1,5-bisphosphate carboxylase/oxygenase (rubisco) from3 pyrococcus horikoshii ot3 (form-2 crystal) |
| 77 | c1gehE | | Alignment | not modelled | 49.6 | 25 | PDB header: lyase Chain: E; PDB Molecule: ribulose-1,5-bisphosphate carboxylase/oxygenase; PDBTitle: crystal structure of archaeal rubisco (ribulose 1,5-bisphosphate2 carboxylase/oxygenase) |
| 78 | c5ol2D | | Alignment | not modelled | 49.1 | 20 | PDB header: flavoprotein Chain: D; PDB Molecule: electron transfer flavoprotein large subunit; PDBTitle: the electron transferring flavoprotein/butyryl-coa dehydrogenase2 complex from clostridium difficile |
| 79 | d5ruba1 | | Alignment | not modelled | 49.0 | 25 | Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain |
| 80 | c5iejA | | Alignment | not modelled | 48.8 | 22 | PDB header: protein Chain: A; PDB Molecule: sdrg; PDBTitle: solution structure of the bef3-activated conformation of sdrg from2 pseudomonas melonis fr1 |
| 81 | c3qi7A | | Alignment | not modelled | 48.2 | 10 | PDB header: transcription Chain: A; PDB Molecule: putative transcriptional regulator; PDBTitle: crystal structure of a putative transcriptional regulator2 (yp_001089212.1) from clostridium difficile 630 at 1.86 a resolution |
| 82 | d1gk8a1 | | Alignment | not modelled | 48.0 | 17 | Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain |
| 83 | c2zviB | | Alignment | not modelled | 47.6 | 17 | PDB header: isomerase Chain: B; PDB Molecule: 2,3-diketo-5-methylthiopentyl-1-phosphate PDBTitle: crystal structure of 2,3-diketo-5-methylthiopentyl-1-2 phosphate enolase from bacillus subtilis |
| 84 | d1bxna1 | | Alignment | not modelled | 47.2 | 24 | Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain |
| 85 | d1y5ea1 | | Alignment | not modelled | 46.3 | 28 | Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MogA-like |
| 86 | c2rusB | | Alignment | not modelled | 45.0 | 25 | PDB header: lyase(carbon-carbon) Chain: B; PDB Molecule: rubisco (ribulose-1,5-bisphosphate carboxylase/slash) PDBTitle: crystal structure of the ternary complex of ribulose-1,5-bisphosphate2 carboxylase, mg(ii), and activator co2 at 2.3-angstroms resolution |
| 87 | d1geha1 | | Alignment | not modelled | 44.6 | 25 | Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain |
| 88 | c5c2gD | | Alignment | not modelled | 44.5 | 25 | PDB header: lyase Chain: D; PDB Molecule: form ii rubisco; PDBTitle: gws1b rubisco: form ii rubisco derived from uncultivated2 gallionellacea species (cabp-bound). |
| 89 | d1f6da | | Alignment | not modelled | 44.4 | 16 | Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDP-N-acetylglucosamine 2-epimerase |
| 90 | d2d69a1 | | Alignment | not modelled | 43.6 | 27 | Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain |
| 91 | c3okaA | | Alignment | not modelled | 43.2 | 25 | PDB header: transferase Chain: A; PDB Molecule: gdp-mannose-dependent alpha-(1-6)-phosphatidylinositol PDBTitle: crystal structure of corynebacterium glutamicum pimb' in complex with2 gdp-man (triclinic crystal form) |
| 92 | c5xvmB | | Alignment | not modelled | 43.1 | 13 | PDB header: transferase Chain: B; PDB Molecule: sterol 3-beta-glucosyltransferase; PDBTitle: sterol 3-beta-glucosyltransferase (ugt51) from saccharomyces2 cerevisiae (strain atcc 204508 / s288c) |
| 93 | d1mkza | | Alignment | not modelled | 43.0 | 16 | Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MogA-like |
| 94 | d1ykwa1 | | Alignment | not modelled | 42.1 | 18 | Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain |
| 95 | c3nwrA | | Alignment | not modelled | 41.4 | 22 | PDB header: lyase Chain: A; PDB Molecule: a rubisco-like protein; PDBTitle: crystal structure of a rubisco-like protein from burkholderia fungorum |
| 96 | c5xt2C | | Alignment | not modelled | 38.9 | 18 | PDB header: dna binding protein Chain: C; PDB Molecule: response regulator fixj; PDBTitle: crystal structures of full-length fixj from b. japonicum crystallized2 in space group p212121 |
| 97 | d1jqna | | Alignment | not modelled | 37.6 | 19 | Fold: TIM beta/alpha-barrel Superfamily: Phosphoenolpyruvate/pyruvate domain Family: Phosphoenolpyruvate carboxylase |
| 98 | c5nlmB | | Alignment | not modelled | 37.1 | 11 | PDB header: transferase Chain: B; PDB Molecule: indoxyl udp-glucosyltransferase; PDBTitle: complex between a udp-glucosyltransferase from polygonum tinctorium2 capable of glucosylating indoxyl and indoxyl sulfate |
| 99 | c2ohiB | | Alignment | not modelled | 36.5 | 6 | PDB header: oxidoreductase Chain: B; PDB Molecule: type a flavoprotein fpfa; PDBTitle: crystal structure of coenzyme f420h2 oxidase (fpfa), a diiron2 flavoprotein, reduced state |
| 100 | c3u7iB | | Alignment | not modelled | 35.7 | 13 | PDB header: oxidoreductase Chain: B; PDB Molecule: fmn-dependent nadh-azoreductase 1; PDBTitle: the crystal structure of fmn-dependent nadh-azoreductase 1 (gbaa0966)2 from bacillus anthracis str. ames |

| | | | | | |
|-----|-------------------------|-----------|--------------|------|--|
| | | | | | ancestor |
| 101 | c3lteH | Alignment | not modelled | 32.8 | 24 PDB header: transcription Chain: H: PDB Molecule: response regulator; PDBTitle: crystal structure of response regulator (signal receiver domain) from <i>2 bermanella marisrubri</i> |
| 102 | d1k68a | Alignment | not modelled | 32.6 | 16 Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related |
| 103 | c4fzrA | Alignment | not modelled | 32.4 | 12 PDB header: transferase Chain: A: PDB Molecule: ssfs6; PDBTitle: crystal structure of ssfs6, <i>streptomyces sp. sf25752</i> glycosyltransferase |
| 104 | c5brjA | Alignment | not modelled | 32.1 | 21 PDB header: signaling protein Chain: A: PDB Molecule: two component response regulator; PDBTitle: structure of the bacteriophytochrome response regulator atbrr |
| 105 | c2csuB | Alignment | not modelled | 31.6 | 15 PDB header: structural genomics, unknown function Chain: B: PDB Molecule: 457aa long hypothetical protein; PDBTitle: crystal structure of ph0766 from <i>pyrococcus horikoshii</i> ot3 |
| 106 | c2q9uB | Alignment | not modelled | 31.1 | 14 PDB header: oxidoreductase Chain: B: PDB Molecule: a-type flavoprotein; PDBTitle: crystal structure of the flavodiiron protein from <i>giardia2 intestinalis</i> |
| 107 | c2jimH | Alignment | not modelled | 30.4 | 8 PDB header: transferase Chain: H: PDB Molecule: glycosyl transferase, group 1 family protein; PDBTitle: crystal structure of a family gt4 glycosyltransferase from <i>bacillus2 anthracis</i> orf ba1558. |
| 108 | d1s8na | Alignment | not modelled | 29.9 | 25 Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related |
| 109 | c5okmA | Alignment | not modelled | 29.6 | 25 PDB header: replication Chain: A: PDB Molecule: dna polymerase epsilon catalytic subunit a; PDBTitle: crystal structure of the ctf18-1-8 module from ctf18-rfc in complex2 with a 63 kda fragment of dna polymerase epsilon |
| 110 | d1a04a2 | Alignment | not modelled | 29.5 | 18 Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related |
| 111 | d1uuuya | Alignment | not modelled | 29.1 | 16 Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MogA-like |
| 112 | d1o6ca | Alignment | not modelled | 28.7 | 15 Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDP-N-acetylglucosamine 2-epimerase |
| 113 | d2afw1 | Alignment | not modelled | 28.2 | 19 Fold: Phosphorylase/hydrolase-like Superfamily: Zn-dependent exopeptidases Family: Glutaminyl-peptide cyclotransferase-like |
| 114 | d1efpa1 | Alignment | not modelled | 27.9 | 13 Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Adenine nucleotide alpha hydrolases-like Family: ETFP subunits |
| 115 | c6grqB | Alignment | not modelled | 26.7 | 9 PDB header: signaling protein Chain: B: PDB Molecule: oxygen-binding diiron protein; PDBTitle: apo conformation of chemotaxis sensor odp |
| 116 | c3d0qB | Alignment | not modelled | 26.6 | 17 PDB header: transferase Chain: B: PDB Molecule: protein calg3; PDBTitle: crystal structure of calg3 from <i>micromonospora echinospora</i> determined2 in space group i222 |
| 117 | c5dldA | Alignment | not modelled | 26.3 | 21 PDB header: isomerase Chain: A: PDB Molecule: udp-n-acetylglucosamine 2-epimerase; PDBTitle: crystal structure of a udp-n-acetylglucosamine 2-epimerase from <i>2 burkholderia vietnamiensis</i> complexed with udp-glcNAc and udp |
| 118 | d1k66a | Alignment | not modelled | 26.3 | 21 Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related |
| 119 | d1e5da2 | Alignment | not modelled | 26.1 | 11 Fold: Metallo-hydrolase/oxidoreductase Superfamily: Metallo-hydrolase/oxidoreductase Family: ROO N-terminal domain-like |
| 120 | d1dkua2 | Alignment | not modelled | 25.8 | 21 Fold: PRTase-like Superfamily: PRTase-like Family: Phosphoribosylpyrophosphate synthetase-like |