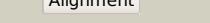
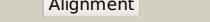
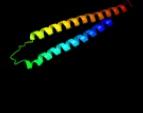
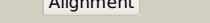
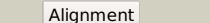
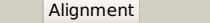
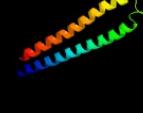
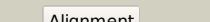
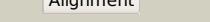
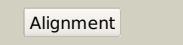
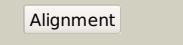
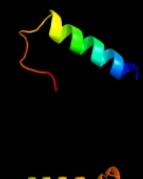
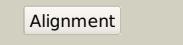
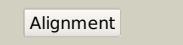
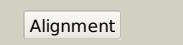
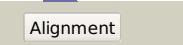
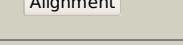
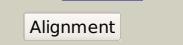
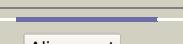
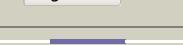
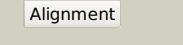
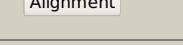


Phyre²

| | |
|---------------|----------------------------------|
| Email | mdejesus@rockefeller.edu |
| Description | RVBD1038c_(esxj)_1160859_1161155 |
| Date | Wed Jul 31 22:05:11 BST 2019 |
| Unique Job ID | 64c906b673bfce25 |

Detailed template information

| # | Template | Alignment Coverage | 3D Model | Confidence | % i.d. | Template Information |
|----|-------------------------|---|---|------------|--------|--|
| 1 | c3ogiD_ |  |  | 100.0 | 91 | PDB header: structural genomics, unknown function Chain: D: PDB Molecule: putative esat-6-like protein 7; PDBTitle: crystal structure of the mycobacterium tuberculosis h37rv esxop2 complex (rv2346c-rv2347c) |
| 2 | d1wa8a1 |  |  | 98.6 | 20 | Fold: Ferritin-like Superfamily: EsxAB dimer-like Family: ESAT-6 like |
| 3 | c3zbhC_ |  |  | 97.9 | 20 | PDB header: unknown function Chain: C: PDB Molecule: esxa; PDBTitle: geobacillus thermonitrificans esxa crystal form i |
| 4 | c3gvmA_ |  |  | 97.7 | 16 | PDB header: viral protein Chain: A: PDB Molecule: putative uncharacterized protein sag1039; PDBTitle: structure of the homodimeric wxg-100 family protein from streptococcus2 agalactiae |
| 5 | c4lwsA_ |  |  | 97.6 | 22 | PDB header: unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: esxa : esxb (semet) hetero-dimer from thermomonospora curvata |
| 6 | c4iogD_ |  |  | 97.6 | 24 | PDB header: unknown function Chain: D: PDB Molecule: secreted protein esxb; PDBTitle: the crystal structure of a secreted protein esxb (wild-type, in p212 space group) from bacillus anthracis str. sterne |
| 7 | c2vs0B_ |  |  | 97.5 | 14 | PDB header: cell invasion Chain: B: PDB Molecule: virulence factor esxa; PDBTitle: structural analysis of homodimeric staphylococcal aureus2 virulence factor esxa |
| 8 | d1wa8b1 |  |  | 96.6 | 10 | Fold: Ferritin-like Superfamily: EsxAB dimer-like Family: ESAT-6 like |
| 9 | c4lwsB_ |  |  | 96.0 | 14 | PDB header: unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: esxa : esxb (semet) hetero-dimer from thermomonospora curvata |
| 10 | c2kg7B_ |  |  | 95.5 | 21 | PDB header: unknown function Chain: B: PDB Molecule: esat-6-like protein esxh; PDBTitle: structure and features of the complex formed by the tuberculosis2 virulence factors rv0287 and rv0288 |
| 11 | c3m0dC_ |  |  | 76.8 | 19 | PDB header: signaling protein Chain: C: PDB Molecule: tnf receptor-associated factor 1; PDBTitle: crystal structure of the traf1:traf2:ciap2 complex |

| | | | | | | |
|----|-------------------------|---|---|------|----|--|
| 12 | c3m06F |  |  | 66.9 | 19 | PDB header: protein binding Chain: F: PDB Molecule: tnf receptor-associated factor 2; PDBTitle: crystal structure of traf2 |
| 13 | c2dw3A |  |  | 51.6 | 38 | PDB header: photosynthesis Chain: A: PDB Molecule: intrinsic membrane protein pufx; PDBTitle: solution structure of the rhodobacter sphaeroides pufx2 membrane protein |
| 14 | c3bj4B |  |  | 30.4 | 44 | PDB header: signaling protein Chain: B: PDB Molecule: potassium voltage-gated channel subfamily kqk PDBTitle: the kcnq1 (kv7.1) c-terminus, a multi-tiered scaffold for2 subunit assembly and protein interaction |
| 15 | d1pqua2 |  |  | 27.3 | 54 | Fold: FwdE/GAPDH domain-like Superfamily: Glyceraldehyde-3-phosphate dehydrogenase-like, C-terminal domain Family: GAPDH-like |
| 16 | d1wtea |  |  | 26.1 | 42 | Fold: Restriction endonuclease-like Superfamily: Restriction endonuclease-like Family: Restriction endonuclease EcoO109IR |
| 17 | c3ag7A |  |  | 20.6 | 16 | PDB header: plant protein Chain: A: PDB Molecule: putative uncharacterized protein f9e10.5; PDBTitle: an auxilin-like j-domain containing protein, jac1 j-domain |
| 18 | d1mb4a2 |  |  | 20.0 | 54 | Fold: FwdE/GAPDH domain-like Superfamily: Glyceraldehyde-3-phosphate dehydrogenase-like, C-terminal domain Family: GAPDH-like |
| 19 | d1t4ba2 |  |  | 19.9 | 46 | Fold: FwdE/GAPDH domain-like Superfamily: Glyceraldehyde-3-phosphate dehydrogenase-like, C-terminal domain Family: GAPDH-like |
| 20 | d2gz1a2 |  |  | 19.7 | 46 | Fold: FwdE/GAPDH domain-like Superfamily: Glyceraldehyde-3-phosphate dehydrogenase-like, C-terminal domain Family: GAPDH-like |
| 21 | c2la2A |  | not modelled | 19.6 | 27 | PDB header: antimicrobial protein Chain: A: PDB Molecule: cecropin; PDBTitle: solution structure of papilioxin isolated from the swallowtail2 butterfly, papilio xuthus |
| 22 | c3gtzA |  | not modelled | 13.7 | 18 | PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative translation initiation inhibitor; PDBTitle: crystal structure of a putative translation initiation inhibitor from2 salmonella typhimurium |
| 23 | c2ym9D |  | not modelled | 12.7 | 23 | PDB header: cell invasion Chain: D: PDB Molecule: cell invasion protein sipd; PDBTitle: sipd from salmonella typhimurium |
| 24 | c5a3kA |  | not modelled | 11.3 | 31 | PDB header: oxidoreductase Chain: A: PDB Molecule: putative pteridine-dependent dioxygenase; PDBTitle: chorismatase mechanisms reveal fundamentally different types of reaction in a single conserved protein fold |
| 25 | c1i8tB |  | not modelled | 10.8 | 40 | PDB header: isomerase Chain: B: PDB Molecule: udp-galactopyranose mutase; PDBTitle: strcuture of udp-galactopyranose mutase from e.coli |
| 26 | c3h6pD |  | not modelled | 9.9 | 30 | PDB header: structural genomics, unknown function Chain: D: PDB Molecule: esat-6-like protein esxr; PDBTitle: crystal structure of rv3019c-rv3020c from mycobacterium tuberculosis |
| 27 | d2j01h1 |  | not modelled | 9.8 | 42 | Fold: Ribosomal protein L6 Superfamily: Ribosomal protein L6 Family: Ribosomal protein L6 |
| 28 | d2zjre2 |  | not modelled | 9.5 | 45 | Fold: Ribosomal protein L6 Superfamily: Ribosomal protein L6 Family: Ribosomal protein L6 |
| | | | | | | Fold: Ribosomal protein L6 |

| | | | | | | |
|----|-------------------------|-----------|--------------|-----|----|---|
| 29 | d2qamg1 | Alignment | not modelled | 9.0 | 33 | Superfamily: Ribosomal protein L6 Family: Ribosomal protein L6 |
| 30 | d1vqoe1 | Alignment | not modelled | 8.6 | 58 | Fold: Ribosomal protein L6 Superfamily: Ribosomal protein L6 Family: Ribosomal protein L6 |
| 31 | c3l32B_ | Alignment | not modelled | 8.3 | 35 | PDB header: viral protein Chain: B: PDB Molecule: phosphoprotein; PDBTitle: structure of the dimerisation domain of the rabies virus2 phosphoprotein |
| 32 | d1xbla_ | Alignment | not modelled | 8.2 | 12 | Fold: Long alpha-hairpin Superfamily: Chaperone J-domain Family: Chaperone J-domain |
| 33 | c2vg7B_ | Alignment | not modelled | 7.8 | 53 | PDB header: oxidoreductase Chain: B: PDB Molecule: flavin-containing monooxygenase; PDBTitle: bacterial flavin-containing monooxygenase in complex with2 nadp; native data |
| 34 | c4m70A_ | Alignment | not modelled | 7.8 | 39 | PDB header: plant protein Chain: A: PDB Molecule: rx protein; PDBTitle: crystal structure of potato rx-cc domain in complex with rangap2-wpp2 domain |
| 35 | c2bi8A_ | Alignment | not modelled | 7.6 | 47 | PDB header: isomerase Chain: A: PDB Molecule: udp-galactopyranose mutase; PDBTitle: udp-galactopyranose mutase from klebsiella pneumoniae with reduced fad |
| 36 | d1w4xa1 | Alignment | not modelled | 7.5 | 40 | Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD/NAD-linked reductases, N-terminal and central domains |
| 37 | c2dn9A_ | Alignment | not modelled | 7.4 | 14 | PDB header: apoptosis, chaperone Chain: A: PDB Molecule: dnaj homolog subfamily a member 3; PDBTitle: solution structure of j-domain from the dnaj homolog, human2 tid1 protein |
| 38 | c5nmwA_ | Alignment | not modelled | 7.4 | 47 | PDB header: oxidoreductase Chain: A: PDB Molecule: flavin-containing monooxygenase; PDBTitle: crystal structure of the pyrrolizidine alkaloid n-oxygenase from2 zonocerus variegatus in complex with fad |
| 39 | c487dj_ | Alignment | not modelled | 7.2 | 42 | PDB header: ribosome Chain: J: PDB Molecule: protein (50s l6 ribosomal protein); PDBTitle: seven ribosomal proteins fitted to a cryo-electron2 microscopic map of the large 50s subunit at 7.5 angstroms3 resolution |
| 40 | c5j7xA_ | Alignment | not modelled | 7.2 | 40 | PDB header: oxidoreductase Chain: A: PDB Molecule: dimethylaniline monooxygenase, putative; PDBTitle: baeyer-villiger monooxygenase bvmof1838 from aspergillus flavus |
| 41 | d2k49a2 | Alignment | not modelled | 7.1 | 43 | Fold: YegP-like Superfamily: YegP-like Family: YegP-like |
| 42 | c3we0A_ | Alignment | not modelled | 7.0 | 47 | PDB header: oxidoreductase Chain: A: PDB Molecule: l-amino acid oxidase monooxygenase; PDBTitle: l-amino acid oxidase monooxygenase from pseudomonas sp. aiu 813 |
| 43 | d2hjsa2 | Alignment | not modelled | 7.0 | 27 | Fold: FwdE/GAPDH domain-like Superfamily: Glyceraldehyde-3-phosphate dehydrogenase-like, C-terminal domain Family: GAPDH-like |
| 44 | d1rl6a1 | Alignment | not modelled | 7.0 | 45 | Fold: Ribosomal protein L6 Superfamily: Ribosomal protein L6 Family: Ribosomal protein L6 |
| 45 | d2k8ea1 | Alignment | not modelled | 6.8 | 71 | Fold: YegP-like Superfamily: YegP-like Family: YegP-like |
| 46 | c1v0jB_ | Alignment | not modelled | 6.6 | 27 | PDB header: isomerase Chain: B: PDB Molecule: udp-galactopyranose mutase; PDBTitle: udp-galactopyranose mutase from mycobacterium tuberculosis |
| 47 | d2cqla1 | Alignment | not modelled | 6.6 | 45 | Fold: Ribosomal protein L6 Superfamily: Ribosomal protein L6 Family: Ribosomal protein L6 |
| 48 | c4ap3A_ | Alignment | not modelled | 6.3 | 27 | PDB header: oxidoreductase Chain: A: PDB Molecule: steroid monooxygenase; PDBTitle: oxidized steroid monooxygenase bound to nadp |
| 49 | c3uoyB_ | Alignment | not modelled | 6.2 | 33 | PDB header: oxidoreductase Chain: B: PDB Molecule: otemo; PDBTitle: crystal structure of otemo complex with fad and nadp (form 1) |
| 50 | d1jd1a_ | Alignment | not modelled | 6.1 | 14 | Fold: Bacillus chorismate mutase-like Superfamily: YjfF-like Family: YjfF/L-PSP |
| 51 | c5gsnD_ | Alignment | not modelled | 6.1 | 40 | PDB header: flavoprotein Chain: D: PDB Molecule: flavin-containing monooxygenase; PDBTitle: tmn in complex with methimazole |
| 52 | c3gwdA_ | Alignment | not modelled | 6.1 | 33 | PDB header: oxidoreductase Chain: A: PDB Molecule: cyclohexanone monooxygenase; PDBTitle: closed crystal structure of cyclohexanone monooxygenase |
| 53 | c4tlxC_ | Alignment | not modelled | 6.0 | 27 | PDB header: oxidoreductase Chain: C: PDB Molecule: ktzi; PDBTitle: kutzneria sp. 744 ornithine n-hydroxylase, ktzi-fadred-nadp+-l-orn |
| 54 | c3nj2B_ | Alignment | not modelled | 6.0 | 18 | PDB header: unknown function Chain: B: PDB Molecule: duf269-containing protein; PDBTitle: crystal structure of cce_0566 from the cyanobacterium cyanothece2 51142, a protein associated with nitrogen fixation from the duf269 family |
| | | | | | | Fold: Nucleotide-binding domain |

| | | | | | | |
|----|-------------------------|--|--------------|-----|----|--|
| 55 | d2bi7a1 | | not modelled | 5.9 | 47 | Superfamily: Nucleotide-binding domain Family: UDP-galactopyranose mutase, N-terminal domain |
| 56 | c3zqbB | | not modelled | 5.9 | 20 | PDB header: cell invasion Chain: B: PDB Molecule: protein prgi, cell invasion protein sipd; PDBTitle: prgi-sipd from salmonella typhimurium |
| 57 | c5o60G | | not modelled | 5.9 | 42 | PDB header: ribosome Chain: G: PDB Molecule: 50s ribosomal protein l6; PDBTitle: structure of the 50s large ribosomal subunit from mycobacterium2 smegmatis |
| 58 | c2jb1B | | not modelled | 5.8 | 33 | PDB header: oxidoreductase Chain: B: PDB Molecule: l-amino acid oxidase; PDBTitle: the l-amino acid oxidase from rhodococcus opacus in complex2 with l-alanine |
| 59 | c2i2vG | | not modelled | 5.7 | 33 | PDB header: ribosome Chain: G: PDB Molecule: 50s ribosomal protein l6; PDBTitle: crystal structure of ribosome with messenger rna and the anticodon2 stem-loop of p-site trna. this file contains the 50s subunit of one3 70s ribosome. the entire crystal structure contains two 70s ribosomes4 and is described in remark 400. |
| 60 | c3k0tA | | not modelled | 5.5 | 11 | PDB header: sugar binding protein Chain: A: PDB Molecule: endoribonuclease l-psp, putative; PDBTitle: crystal structure of pspt0 -psp protein in complex with d-beta-glucosidase2 from pseudomonas syringae pv. tomato str. dc3000 |
| 61 | c2ip6A | | not modelled | 5.5 | 29 | PDB header: antimicrobial protein Chain: A: PDB Molecule: pabp; PDBTitle: crystal structure of pedb |
| 62 | c5jwca | | not modelled | 5.3 | 38 | PDB header: membrane protein Chain: A: PDB Molecule: nadh dehydrogenase, putative; PDBTitle: structure of ndh2 from plasmodium falciparum in complex with ryl-552 |
| 63 | c1vw4F | | not modelled | 5.2 | 42 | PDB header: ribosome Chain: F: PDB Molecule: 54s ribosomal protein l6, mitochondrial; PDBTitle: structure of the yeast mitochondrial large ribosomal subunit |
| 64 | c5o8rA | | not modelled | 5.2 | 20 | PDB header: biosynthetic protein Chain: A: PDB Molecule: l-lysine 6-monooxygenase involved in desferrioxamine PDBTitle: the crystal structure of dfoa bound to fad and nadp; the2 desferrioxamine biosynthetic pathway cadaverine monooxygenase from3 the fire blight disease pathogen erwinia amylovora |
| 65 | c3kjjL | | not modelled | 5.1 | 18 | PDB header: unknown function Chain: L: PDB Molecule: nmb1025 protein; PDBTitle: crystal structure of nmb1025, a member of yjgf protein family, from2 neisseria meningitidis (hexagonal crystal form) |
| 66 | c2hguH | | not modelled | 5.1 | 42 | PDB header: ribosome Chain: H: PDB Molecule: 50s ribosomal protein l6; PDBTitle: 70s t.th. ribosome functional complex with mrna and e- and p-site2 trnas at 4.5a. this entry 2hgu contains 50s ribosomal subunit. the3 30s ribosomal subunit can be found in pdb entry 2hgr. |
| 67 | c6fe8D | | not modelled | 5.0 | 42 | PDB header: dna binding protein Chain: D: PDB Molecule: centromere dna-binding protein complex cbf3 subunit c; PDBTitle: cryo-em structure of the core centromere binding factor 3 complex |