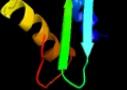
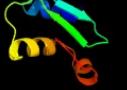
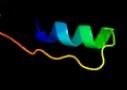
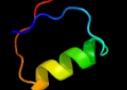


# Phyre<sup>2</sup>

|               |                               |
|---------------|-------------------------------|
| Email         | mdejesus@rockefeller.edu      |
| Description   | RVBD1154c_(-)_1280848_1281489 |
| Date          | Wed Jul 31 22:05:24 BST 2019  |
| Unique Job ID | 4c741e39bbd8afcc              |

Detailed template information

| #  | Template | Alignment Coverage | 3D Model  | Confidence | % i.d. | Template Information   |
|----|----------|--------------------|---|------------|--------|--|
| 1  | d2hiya1  | Alignment          |    | 100.0      | 19     | <b>Fold:</b> SP0830-like<br><b>Superfamily:</b> SP0830-like<br><b>Family:</b> SP0830-like  |
| 2  | c2oylB_  | Alignment          |    | 75.2       | 18     | <b>PDB header:</b> hydrolase<br><b>Chain:</b> B: <b>PDB Molecule:</b> endoglycoceramidase ii;<br><b>PDBTitle:</b> endo-glycoceramidase ii from rhodococcus sp.: cellobiose-like2 imidazole complex   |
| 3  | c3p9kD_  | Alignment          |    | 71.4       | 26     | <b>PDB header:</b> transferase<br><b>Chain:</b> D: <b>PDB Molecule:</b> caffeic acid o-methyltransferase;<br><b>PDBTitle:</b> crystal structure of perennial ryegrass lpmot1 complexed with s-2 adenosyl-l-homocysteine and coniferaldehyde            |
| 4  | c4xzbA_  | Alignment          |    | 69.4       | 14     | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> cela;<br><b>PDBTitle:</b> endo-glucanase gscea p1  |
| 5  | c3uz0A_  | Alignment          |  | 67.6       | 7      | <b>PDB header:</b> transport protein<br><b>Chain:</b> A: <b>PDB Molecule:</b> stage iii sporulation protein ah;<br><b>PDBTitle:</b> crystal structure of spoiiah and spoiiq complex  |
| 6  | d7a3ha_  | Alignment          |  | 64.9       | 12     | <b>Fold:</b> TIM beta/alpha-barrel<br><b>Superfamily:</b> (Trans)glycosidases<br><b>Family:</b> beta-glycanases  |
| 7  | c3tufA_  | Alignment          |  | 64.3       | 7      | <b>PDB header:</b> signaling protein<br><b>Chain:</b> A: <b>PDB Molecule:</b> stage iii sporulation protein ah;<br><b>PDBTitle:</b> structure of the spoiiq-spoiiah pore forming complex.  |
| 8  | d1kyza2  | Alignment          |  | 63.4       | 24     | <b>Fold:</b> S-adenosyl-L-methionine-dependent methyltransferases<br><b>Superfamily:</b> S-adenosyl-L-methionine-dependent methyltransferases<br><b>Family:</b> Plant O-methyltransferase, C-terminal domain   |
| 9  | d1im8a_  | Alignment          |  | 57.8       | 20     | <b>Fold:</b> S-adenosyl-L-methionine-dependent methyltransferases<br><b>Superfamily:</b> S-adenosyl-L-methionine-dependent methyltransferases<br><b>Family:</b> Hypothetical protein HI0319 (YecO)   |
| 10 | c5i2uB_  | Alignment          |  | 56.1       | 13     | <b>PDB header:</b> hydrolase<br><b>Chain:</b> B: <b>PDB Molecule:</b> cellulase;<br><b>PDBTitle:</b> crystal structure of a novel halo-tolerant cellulase from soil2 metagenome  |
| 11 | c3f55A_  | Alignment          |  | 55.7       | 28     | <b>PDB header:</b> hydrolase, allergen<br><b>Chain:</b> A: <b>PDB Molecule:</b> beta-1,3-glucanase;<br><b>PDBTitle:</b> crystal structure of the native endo beta-1,3-glucanase (hev b 2), a2 major allergen from hevea brasiliensis (space group p41) |

|    |                         |  |              |      |    |   |
|----|-------------------------|--|--------------|------|----|---|
| 12 | <a href="#">c4fk9A_</a> |  |              | 55.5 | 18 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> cellulose-binding family ii;<br><b>PDBTitle:</b> high resolution structure of the catalytic domain of mannanase2 sacte_2347 from streptomyces sp. sirexaa-e                                   |
| 13 | <a href="#">c2rogA_</a> |  |              | 55.4 | 33 | <b>PDB header:</b> metal binding protein<br><b>Chain:</b> A: <b>PDB Molecule:</b> heavy metal binding protein;<br><b>PDBTitle:</b> solution structure of thermus thermophilus hb8 ttha17182 protein in living e. coli cells   |
| 14 | <a href="#">d1fp1d2</a> |  |              | 52.8 | 18 | <b>Fold:</b> S-adenosyl-L-methionine-dependent methyltransferases<br><b>Superfamily:</b> S-adenosyl-L-methionine-dependent methyltransferases<br><b>Family:</b> Plant O-methyltransferase, C-terminal domain  |
| 15 | <a href="#">c4w7wA_</a> |  |              | 52.3 | 25 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> cellulase;<br><b>PDBTitle:</b> high-resolution structure of xaccel5a in complex with cellobetaose   |
| 16 | <a href="#">c1kyzC_</a> |  |              | 52.1 | 25 | <b>PDB header:</b> transferase<br><b>Chain:</b> C: <b>PDB Molecule:</b> caffeoic acid 3-o-methyltransferase;<br><b>PDBTitle:</b> crystal structure analysis of caffeoic acid/5-hydroxyferulic acid 3/5-o-methyltransferase ferulic acid complex                     |
| 17 | <a href="#">c5ccuA_</a> |  |              | 50.6 | 14 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> putative secreted endoglycosidase;<br><b>PDBTitle:</b> crystal structure of endoglycosidase i from rhodococcus equi   |
| 18 | <a href="#">d2cyga1</a> |  |              | 50.5 | 28 | <b>Fold:</b> TIM beta/alpha-barrel<br><b>Superfamily:</b> (Trans)glycosidases<br><b>Family:</b> beta-glycanases   |
| 19 | <a href="#">c5oydA_</a> |  |              | 49.7 | 24 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> cellulase, putative, cel5d;<br><b>PDBTitle:</b> gh5 endo-xylanoglucanase from cellulibacter japonicus   |
| 20 | <a href="#">c4e70A_</a> |  |              | 49.0 | 26 | <b>PDB header:</b> transferase<br><b>Chain:</b> A: <b>PDB Molecule:</b> coniferyl alcohol 9-o-methyltransferase;<br><b>PDBTitle:</b> crystal structure analysis of coniferyl alcohol 9-o-methyltransferase2 from linum nodiflorum in complex with coniferyl alcohol |
| 21 | <a href="#">c5cvvB_</a> |  | not modelled | 48.6 | 22 | <b>PDB header:</b> transferase<br><b>Chain:</b> B: <b>PDB Molecule:</b> (iso)eugenol o-methyltransferase;<br><b>PDBTitle:</b> coniferyl alcohol bound monolignol 4-o-methyltransferase 9  |
| 22 | <a href="#">c4htyA_</a> |  | not modelled | 48.5 | 13 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> cellulase;<br><b>PDBTitle:</b> crystal structure of a metagenome-derived cellulase cel5a  |
| 23 | <a href="#">c2cksB_</a> |  | not modelled | 47.3 | 10 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> B: <b>PDB Molecule:</b> endoglucanase e-5;<br><b>PDBTitle:</b> x-ray crystal structure of the catalytic domain of thermobifida fusca2 endoglucanase cel5a (e5)  |
| 24 | <a href="#">d1tta_</a>  |  | not modelled | 46.6 | 31 | <b>Fold:</b> Thioredoxin fold<br><b>Superfamily:</b> Thioredoxin-like<br><b>Family:</b> Thiolttransferase   |
| 25 | <a href="#">c3mmwb_</a> |  | not modelled | 46.0 | 17 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> B: <b>PDB Molecule:</b> endoglucanase;<br><b>PDBTitle:</b> crystal structure of endoglucanase cel5a from the hyperthermophilic2 thermotoga maritima   |
| 26 | <a href="#">c5xohA_</a> |  | not modelled | 45.7 | 30 | <b>PDB header:</b> transferase<br><b>Chain:</b> A: <b>PDB Molecule:</b> bergaptol o-methyltransferase;<br><b>PDBTitle:</b> crystal structure of bergaptol o-methyltransferase complex   |
| 27 | <a href="#">c5uhxA_</a> |  | not modelled | 45.5 | 13 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> carbohydrate-active enzyme;<br><b>PDBTitle:</b> structure of cellulase cel5c_1  |
| 28 | <a href="#">d1aq0a_</a> |  | not modelled | 45.3 | 24 | <b>Fold:</b> TIM beta/alpha-barrel<br><b>Superfamily:</b> (Trans)glycosidases<br><b>Family:</b> beta-glycanases   |
|    |                         |  |              |      |    | <b>PDB header:</b> structural genomics, unknown function  |

|    |                         |           |              |      |    |   |
|----|-------------------------|-----------|--------------|------|----|---|
| 29 | <a href="#">c3dtnA_</a> | Alignment | not modelled | 44.9 | 24 | <b>Chain:</b> A: <b>PDB Molecule:</b> putative methyltransferase mm_2633; <b>PDBTitle:</b> crystal structure of putative methyltransferase-mm_2633 from2 methanosa<br>rcina maezi .   |
| 30 | <a href="#">d1ceea_</a> | Alignment | not modelled | 43.5 | 7  | <b>Fold:</b> TIM beta/alpha-barrel<br><b>Superfamily:</b> (Trans)glycosidases<br><b>Family:</b> beta-glycanases   |
| 31 | <a href="#">c1xszA_</a> | Alignment | not modelled | 42.5 | 17 | <b>PDB header:</b> signaling protein<br><b>Chain:</b> A: <b>PDB Molecule:</b> guanine nucleotide exchange protein; <b>PDBTitle:</b> the structure of ralf   |
| 32 | <a href="#">d1ghsa_</a> | Alignment | not modelled | 42.5 | 28 | <b>Fold:</b> TIM beta/alpha-barrel<br><b>Superfamily:</b> (Trans)glycosidases<br><b>Family:</b> beta-glycanases   |
| 33 | <a href="#">c4d7kB_</a> | Alignment | not modelled | 42.0 | 24 | <b>PDB header:</b> transferase<br><b>Chain:</b> B: <b>PDB Molecule:</b> sam-dependent methyltransferases; <b>PDBTitle:</b> crystal structure of n,n-8-amino-8-demethyl-d-riboflavin2 dimethyltransferase (rosa) from streptomyces dawawensis  |
| 34 | <a href="#">c6n0tA_</a> | Alignment | not modelled | 41.7 | 24 | <b>PDB header:</b> ligase<br><b>Chain:</b> A: <b>PDB Molecule:</b> trna ligase; <b>PDBTitle:</b> trna ligase  |
| 35 | <a href="#">c2jepB_</a> | Alignment | not modelled | 41.5 | 19 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> B: <b>PDB Molecule:</b> xyloglucanase; <b>PDBTitle:</b> native family 5 xyloglucanase from paenibacillus pabuli   |
| 36 | <a href="#">c5cm2Z_</a> | Alignment | not modelled | 41.3 | 14 | <b>PDB header:</b> transferase<br><b>Chain:</b> Z: <b>PDB Molecule:</b> trna methyltransferase; <b>PDBTitle:</b> insights into molecular plasticity in protein complexes from trm9-2 trm112 trna modifying enzyme crystal structure   |
| 37 | <a href="#">c4u5iB_</a> | Alignment | not modelled | 41.0 | 19 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> B: <b>PDB Molecule:</b> endoglucanase h; <b>PDBTitle:</b> complex structure of mutant ctcl5e (e314a) with xylobiose   |
| 38 | <a href="#">c2k2pA_</a> | Alignment | not modelled | 40.5 | 21 | <b>PDB header:</b> structural genomics, unknown function<br><b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized protein atu1203; <b>PDBTitle:</b> solution nmr structure of protein atu1203 from agrobacterium2 tumefaciens. northeast structural genomics consortium (nesg) target3 att10, ontario center for structural proteomics target atc1183 |
| 39 | <a href="#">c4qvgC_</a> | Alignment | not modelled | 40.2 | 23 | <b>PDB header:</b> transferase<br><b>Chain:</b> C: <b>PDB Molecule:</b> sisb; <b>PDBTitle:</b> crystal structure of s-adenosylmethionine-dependent methyltransferase2 sisb in its apo form  |
| 40 | <a href="#">c4im4F_</a> | Alignment | not modelled | 40.0 | 18 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> F: <b>PDB Molecule:</b> endoglucanase e; <b>PDBTitle:</b> multifunctional cellulase, xylanase, mannanase  |
| 41 | <a href="#">c4ee9A_</a> | Alignment | not modelled | 39.8 | 18 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> endoglucanase; <b>PDBTitle:</b> crystal structure of the rbcel1 endo-1,4-glucanase  |
| 42 | <a href="#">c1fpqA_</a> | Alignment | not modelled | 38.2 | 19 | <b>PDB header:</b> transferase<br><b>Chain:</b> A: <b>PDB Molecule:</b> isoliquirigenin 2'-o-methyltransferase; <b>PDBTitle:</b> crystal structure analysis of selenomethionine substituted chalcone o-2 methyltransferase  |
| 43 | <a href="#">d1ceoa_</a> | Alignment | not modelled | 38.1 | 35 | <b>Fold:</b> TIM beta/alpha-barrel<br><b>Superfamily:</b> (Trans)glycosidases<br><b>Family:</b> beta-glycanases   |
| 44 | <a href="#">c2rrnA_</a> | Alignment | not modelled | 38.1 | 13 | <b>PDB header:</b> protein transport<br><b>Chain:</b> A: <b>PDB Molecule:</b> probable secdf protein-export membrane protein; <b>PDBTitle:</b> solution structure of secdf periplasmic domain p4  |
| 45 | <a href="#">c5uzgA_</a> | Alignment | not modelled | 37.1 | 11 | <b>PDB header:</b> rna binding protein<br><b>Chain:</b> A: <b>PDB Molecule:</b> at27789p; <b>PDBTitle:</b> crystal structure of glorund qrrm1 domain  |
| 46 | <a href="#">d2phna1</a> | Alignment | not modelled | 36.8 | 19 | <b>Fold:</b> CofE-like<br><b>Superfamily:</b> CofE-like<br><b>Family:</b> CofE-like   |
| 47 | <a href="#">c5hosA_</a> | Alignment | not modelled | 36.8 | 31 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> cellulase; <b>PDBTitle:</b> crystal structure of the endo-beta-1,4-glucanase xac0029 from2 xanthomonas axonopodis pv. citri   |
| 48 | <a href="#">d1egza_</a> | Alignment | not modelled | 36.0 | 22 | <b>Fold:</b> TIM beta/alpha-barrel<br><b>Superfamily:</b> (Trans)glycosidases<br><b>Family:</b> beta-glycanases   |
| 49 | <a href="#">c4c0aA_</a> | Alignment | not modelled | 34.4 | 23 | <b>PDB header:</b> protein transport<br><b>Chain:</b> A: <b>PDB Molecule:</b> iq motif and sec7 domain-containing protein 1; <b>PDBTitle:</b> arf1(delta1-17)in complex with brag2 sec7-ph domain   |
| 50 | <a href="#">c3pzvB_</a> | Alignment | not modelled | 34.1 | 14 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> B: <b>PDB Molecule:</b> endooglucanase; <b>PDBTitle:</b> c2 crystal form of the endo-1,4-beta-glucanase from bacillus subtilis2 168   |
| 51 | <a href="#">c5i2hb_</a> | Alignment | not modelled | 33.7 | 20 | <b>PDB header:</b> transferase<br><b>Chain:</b> B: <b>PDB Molecule:</b> o-methyltransferase family 2; <b>PDBTitle:</b> crystal structure of o-methyltransferase family 2 protein plim_11472 from planctomyces limnophilus dsm 3776 complex with apigenin  |
| 52 | <a href="#">c3vupB_</a> | Alignment | not modelled | 33.6 | 16 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> B: <b>PDB Molecule:</b> beta-1,4-mannanase; <b>PDBTitle:</b> beta-1,4-mannanase from the common sea hare aplysia kurodai  |
| 53 | <a href="#">c3bijC_</a> | Alignment | not modelled | 33.5 | 21 | <b>PDB header:</b> structural genomics, unknown function<br><b>Chain:</b> C: <b>PDB Molecule:</b> uncharacterized protein gsu0716; <b>PDBTitle:</b> crystal structure of protein gsu0716 from geobacter sulfurreducens.2 northeast structural genomics target gsr13   |
| 54 | <a href="#">c4iyrb_</a> | Alignment | not modelled | 32.5 | 19 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> B: <b>PDB Molecule:</b> caspase-6; <b>PDBTitle:</b> crystal structure of full-length caspase-6 zymogen  |

|    |                         |  |           |              |      |    |  |
|----|-------------------------|--|-----------|--------------|------|----|--|
| 55 | <a href="#">d2r25b1</a> |  | Alignment | not modelled | 32.5 | 17 | <b>Fold:</b> Flavodoxin-like<br><b>Superfamily:</b> CheY-like<br><b>Family:</b> CheY-related   |
| 56 | <a href="#">d1xsza1</a> |  | Alignment | not modelled | 32.3 | 19 | <b>Fold:</b> alpha-alpha superhelix<br><b>Superfamily:</b> Sec7 domain<br><b>Family:</b> Sec7 domain   |
| 57 | <a href="#">d1cc8a_</a> |  | Alignment | not modelled | 32.2 | 21 | <b>Fold:</b> Ferredoxin-like<br><b>Superfamily:</b> HMA, heavy metal-associated domain<br><b>Family:</b> HMA, heavy metal-associated domain  |
| 58 | <a href="#">c3jugA_</a> |  | Alignment | not modelled | 31.9 | 14 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> beta-mannanase;<br><b>PDBTitle:</b> crystal structure of endo-beta-1,4-mannanase from the alkaliphilic2 bacillus sp. n16-5   |
| 59 | <a href="#">c3ocjA_</a> |  | Alignment | not modelled | 31.3 | 23 | <b>PDB header:</b> structural genomics, unknown function<br><b>Chain:</b> A: <b>PDB Molecule:</b> putative exported protein;<br><b>PDBTitle:</b> the crystal structure of a possilbe exported protein from bordetella2 parapertussis                       |
| 60 | <a href="#">d1vbka2</a> |  | Alignment | not modelled | 31.2 | 13 | <b>Fold:</b> THUMP domain<br><b>Superfamily:</b> THUMP domain-like<br><b>Family:</b> THUMP domain  |
| 61 | <a href="#">c3i53A_</a> |  | Alignment | not modelled | 29.7 | 24 | <b>PDB header:</b> transferase<br><b>Chain:</b> A: <b>PDB Molecule:</b> o-methyltransferase;<br><b>PDBTitle:</b> crystal structure of an o-methyltransferase (ncsb1) from2 neocarzinostatin biosynthesis in complex with s-adenosyl-l-3 homocysteine (sah) |
| 62 | <a href="#">d1h1na_</a> |  | Alignment | not modelled | 29.6 | 19 | <b>Fold:</b> TIM beta/alpha-barrel<br><b>Superfamily:</b> (Trans)glycosidases<br><b>Family:</b> beta-glycanases  |
| 63 | <a href="#">c4kifB_</a> |  | Alignment | not modelled | 28.9 | 24 | <b>PDB header:</b> transferase<br><b>Chain:</b> B: <b>PDB Molecule:</b> methyltransferase mppj;<br><b>PDBTitle:</b> crystal structure of methyltransferase from streptomyces hygroscopicus2 complexed with phenylpyruvic acid                              |
| 64 | <a href="#">d1jjcb5</a> |  | Alignment | not modelled | 28.8 | 29 | <b>Fold:</b> Class II aaRS and biotin synthetases<br><b>Superfamily:</b> Class II aARS and biotin synthetases<br><b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain   |
| 65 | <a href="#">c5fipA_</a> |  | Alignment | not modelled | 27.9 | 16 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> gh5 cellulase;<br><b>PDBTitle:</b> discovery and characterization of a novel thermostable and2 highly halotolerant gh5 cellulase from an icelandic hot3 spring isolate               |
| 66 | <a href="#">c6ccaA_</a> |  | Alignment | not modelled | 27.9 | 20 | <b>PDB header:</b> transferase<br><b>Chain:</b> A: <b>PDB Molecule:</b> disa protein;<br><b>PDBTitle:</b> crystal structure of dsza carbon methyltransferase   |
| 67 | <a href="#">d1bqca_</a> |  | Alignment | not modelled | 27.8 | 21 | <b>Fold:</b> TIM beta/alpha-barrel<br><b>Superfamily:</b> (Trans)glycosidases<br><b>Family:</b> beta-glycanases  |
| 68 | <a href="#">d1fe0a_</a> |  | Alignment | not modelled | 27.1 | 19 | <b>Fold:</b> Ferredoxin-like<br><b>Superfamily:</b> HMA, heavy metal-associated domain<br><b>Family:</b> HMA, heavy metal-associated domain  |
| 69 | <a href="#">c3ur8A_</a> |  | Alignment | not modelled | 26.4 | 21 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> glucan endo-1,3-beta-d-glucosidase;<br><b>PDBTitle:</b> lower-density crystal structure of potato endo-1,3-beta-glucanase  |
| 70 | <a href="#">c3v7qB_</a> |  | Alignment | not modelled | 26.3 | 7  | <b>PDB header:</b> rna binding protein<br><b>Chain:</b> B: <b>PDB Molecule:</b> probable ribosomal protein ylxq;<br><b>PDBTitle:</b> crystal structure of b. subtilis ylxq at 1.55 a resolution  |
| 71 | <a href="#">d1tvna1</a> |  | Alignment | not modelled | 26.1 | 16 | <b>Fold:</b> TIM beta/alpha-barrel<br><b>Superfamily:</b> (Trans)glycosidases<br><b>Family:</b> beta-glycanases  |
| 72 | <a href="#">c3qr3B_</a> |  | Alignment | not modelled | 26.0 | 16 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> B: <b>PDB Molecule:</b> endoglucanase eg-ii;<br><b>PDBTitle:</b> crystal structure of cel5a (eg2) from hypocrea jecorina (trichoderma2 reesei)   |
| 73 | <a href="#">c2y4oA_</a> |  | Alignment | not modelled | 25.8 | 15 | <b>PDB header:</b> ligase<br><b>Chain:</b> A: <b>PDB Molecule:</b> phenylacetate-coenzyme a ligase;<br><b>PDBTitle:</b> crystal structure of paak2 in complex with phenylacetyl adenylate  |
| 74 | <a href="#">c4nf7A_</a> |  | Alignment | not modelled | 25.4 | 19 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> endo-1,4-beta-glucanase cel5c;<br><b>PDBTitle:</b> crystal structure of the gh5 family catalytic domain of endo-1,4-beta-2 glucanase cel5c from butyrivibrio proteoclasticus.        |
| 75 | <a href="#">c5iceA_</a> |  | Alignment | not modelled | 25.1 | 24 | <b>PDB header:</b> transferase<br><b>Chain:</b> A: <b>PDB Molecule:</b> (s)-norcoclaurine 6-o-methyltransferase;<br><b>PDBTitle:</b> crystal structure of (s)-norcoclaurine 6-o-methyltransferase with s-2 adenosyl-l-homocysteine and norlaudanosoline    |
| 76 | <a href="#">d2ysca1</a> |  | Alignment | not modelled | 24.9 | 47 | <b>Fold:</b> WW domain-like<br><b>Superfamily:</b> WW domain<br><b>Family:</b> WW domain   |
| 77 | <a href="#">d1qupa2</a> |  | Alignment | not modelled | 24.9 | 10 | <b>Fold:</b> Ferredoxin-like<br><b>Superfamily:</b> HMA, heavy metal-associated domain<br><b>Family:</b> HMA, heavy metal-associated domain  |
| 78 | <a href="#">c1uj6A_</a> |  | Alignment | not modelled | 24.8 | 12 | <b>PDB header:</b> isomerase<br><b>Chain:</b> A: <b>PDB Molecule:</b> ribose 5-phosphate isomerase;<br><b>PDBTitle:</b> crystal structure of thermus thermophilus ribose-5-phosphate isomerase2 complexed with arabinose-5-phosphate                       |
| 79 | <a href="#">c3laxA_</a> |  | Alignment | not modelled | 24.4 | 15 | <b>PDB header:</b> ligase<br><b>Chain:</b> A: <b>PDB Molecule:</b> phenylacetate-coenzyme a ligase;<br><b>PDBTitle:</b> the crystal structure of a domain of phenylacetate-coenzyme2 a ligase from bacteroides vulgatus atcc 8482                          |
| 80 | <a href="#">c5ady6_</a> |  | Alignment | not modelled | 24.2 | 13 | <b>PDB header:</b> ribosome<br><b>Chain:</b> 6: <b>PDB Molecule:</b> gtpase hflx;<br><b>PDBTitle:</b> cryo-em structures of the 50s ribosome subunit bound with hflx   |

|    |                         |           |              |      |    |  |
|----|-------------------------|-----------|--------------|------|----|--|
| 81 | <a href="#">c3civa</a>  | Alignment | not modelled | 23.6 | 23 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> endo-beta-1,4-mannanase;<br><b>PDBTitle:</b> crystal structure of the endo-beta-1,4-mannanase from2 alicyclobacillus acidocaldarius  |
| 82 | <a href="#">c3l55B</a>  | Alignment | not modelled | 23.0 | 22 | <b>PDB header:</b> structural genomics, unknown function<br><b>Chain:</b> B: <b>PDB Molecule:</b> b-1,4-endoglucanase/cellulase;<br><b>PDBTitle:</b> crystal structure of a putative beta-1,4-endoglucanase / cellulase2 from prevotella bryantii                    |
| 83 | <a href="#">c3icaB</a>  | Alignment | not modelled | 22.8 | 29 | <b>PDB header:</b> ligase<br><b>Chain:</b> B: <b>PDB Molecule:</b> phenylalanyl-trna synthetase beta chain;<br><b>PDBTitle:</b> the crystal structure of the beta subunit of a phenylalanyl-trna2 synthetase from porphyromonas gingivalis w83                       |
| 84 | <a href="#">c1zgaA</a>  | Alignment | not modelled | 22.5 | 21 | <b>PDB header:</b> plant protein, transferase<br><b>Chain:</b> A: <b>PDB Molecule:</b> isoflavanone 4'-o-methyltransferase';<br><b>PDBTitle:</b> crystal structure of isoflavanone 4'-o-methyltransferase complexed2 with (+)-6a-hydroxymaackiain                    |
| 85 | <a href="#">c3qovD</a>  | Alignment | not modelled | 22.4 | 15 | <b>PDB header:</b> ligase<br><b>Chain:</b> D: <b>PDB Molecule:</b> phenylacetate-coenzyme a ligase;<br><b>PDBTitle:</b> crystal structure of a hypothetical acyl-coa ligase (bt_0428) from2 bacteroides thetaiotaomicron vpi-5482 at 2.20 a resolution               |
| 86 | <a href="#">c6bbqA</a>  | Alignment | not modelled | 22.3 | 20 | <b>PDB header:</b> lipid binding protein<br><b>Chain:</b> A: <b>PDB Molecule:</b> cytohesin-3,adp-ribosylation factor 6;<br><b>PDBTitle:</b> model for extended volume of truncated monomeric cytohesin-3 (grp1;2 amino acids 63-399) e161a arf6 q67l fusion protein |
| 87 | <a href="#">c6gl2A</a>  | Alignment | not modelled | 22.2 | 18 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> endoglucanase, family gh5;<br><b>PDBTitle:</b> structure of zgengagh5_4 wild type at 1.2 angstrom resolution   |
| 88 | <a href="#">c2ip2B</a>  | Alignment | not modelled | 22.1 | 28 | <b>PDB header:</b> transferase<br><b>Chain:</b> B: <b>PDB Molecule:</b> probable phenazine-specific methyltransferase;<br><b>PDBTitle:</b> structure of the pyocyanin biosynthetic protein phzm  |
| 89 | <a href="#">c2kyzA</a>  | Alignment | not modelled | 21.8 | 21 | <b>PDB header:</b> metal binding protein<br><b>Chain:</b> A: <b>PDB Molecule:</b> heavy metal binding protein;<br><b>PDBTitle:</b> nmr structure of heavy metal binding protein tm0320 from thermotoga2 maritima   |
| 90 | <a href="#">c3gwzB</a>  | Alignment | not modelled | 21.8 | 28 | <b>PDB header:</b> transferase<br><b>Chain:</b> B: <b>PDB Molecule:</b> mmcr;<br><b>PDBTitle:</b> structure of the mitomycin 7-o-methyltransferase mmcr  |
| 91 | <a href="#">d2obpa1</a> | Alignment | not modelled | 21.7 | 33 | <b>Fold:</b> DNA/RNA-binding 3-helical bundle<br><b>Superfamily:</b> "Winged helix" DNA-binding domain<br><b>Family:</b> ReutB4095-like  |
| 92 | <a href="#">c1lupA</a>  | Alignment | not modelled | 21.5 | 10 | <b>PDB header:</b> chaperone<br><b>Chain:</b> A: <b>PDB Molecule:</b> superoxide dismutase 1 copper chaperone;<br><b>PDBTitle:</b> crystal structure of the copper chaperone for superoxide dismutase  |
| 93 | <a href="#">c3fpnB</a>  | Alignment | not modelled | 21.1 | 14 | <b>PDB header:</b> dna binding protein<br><b>Chain:</b> B: <b>PDB Molecule:</b> geobacillus stearothermophilus uvrB interaction domain;<br><b>PDBTitle:</b> crystal structure of uvra-uvrb interaction domains   |
| 94 | <a href="#">c3s2uA</a>  | Alignment | not modelled | 20.9 | 20 | <b>PDB header:</b> transferase<br><b>Chain:</b> A: <b>PDB Molecule:</b> udp-n-acetylglucosamine--n-acetylmuramyl-(pentapeptide)<br><b>PDBTitle:</b> crystal structure of the pseudomonas aeruginosa murg:udp-glcnaC2 substrate complex                               |
| 95 | <a href="#">c3qbcB</a>  | Alignment | not modelled | 20.9 | 19 | <b>PDB header:</b> transferase/transferase inhibitor<br><b>Chain:</b> B: <b>PDB Molecule:</b> 2-amino-4-hydroxy-6-hydroxymethylidihydropteridine<br><b>PDBTitle:</b> structure and design of a new pterin site inhibitor of s. aureus hppk                           |
| 96 | <a href="#">c4gekG</a>  | Alignment | not modelled | 20.9 | 22 | <b>PDB header:</b> transferase<br><b>Chain:</b> G: <b>PDB Molecule:</b> trna (cmo5u34)-methyltransferase;<br><b>PDBTitle:</b> crystal structure of wild-type cmoa from e.coli  |
| 97 | <a href="#">c4z2yA</a>  | Alignment | not modelled | 20.6 | 27 | <b>PDB header:</b> transferase<br><b>Chain:</b> A: <b>PDB Molecule:</b> calo6;<br><b>PDBTitle:</b> crystal structure of methyltransferase calo6  |
| 98 | <a href="#">c5a94B</a>  | Alignment | not modelled | 20.2 | 13 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> B: <b>PDB Molecule:</b> putative retaining b-glycosidase;<br><b>PDBTitle:</b> crystal structure of beta-glucanase sdgluc5_26a from saccharophagus2 degradans in complex with tetrasaccharide a, form 1                 |
| 99 | <a href="#">d1wkya2</a> | Alignment | not modelled | 19.8 | 20 | <b>Fold:</b> TIM beta/alpha-barrel<br><b>Superfamily:</b> (Trans)glycosidases<br><b>Family:</b> beta-glycanases  |