

# Phyre<sup>2</sup>

|               |                              |
|---------------|------------------------------|
| Email         | i.a.kelley@imperial.ac.uk    |
| Description   | P76472                       |
| Date          | Wed Jan 25 15:21:08 GMT 2012 |
| Unique Job ID | b0a11c1ff7a799df             |

Detailed template information

| #  | Template                | Alignment Coverage  | 3D Model  | Confidence | % i.d. | Template Information  |
|----|-------------------------|---|---|------------|--------|---|
| 1  | <a href="#">c2c1iA_</a> |    |    | 100.0      | 22     | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> peptidoglycan glcnac deacetylase;<br><b>PDBTitle:</b> structure of streptococcus pneumoniae peptidoglycan2 deacetylase (spgda) d 275 n mutant.                  |
| 2  | <a href="#">c1w17A_</a> |    |    | 100.0      | 18     | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> probable polysaccharide deacetylase pdaa;<br><b>PDBTitle:</b> structure of bacillus subtilis pdaa, a family 42 carbohydrate esterase.                           |
| 3  | <a href="#">d1ny1a_</a> |    |    | 100.0      | 18     | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> NodB-like polysaccharide deacetylase   |
| 4  | <a href="#">d1z7aa1</a> |    |    | 100.0      | 19     | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> PA1517-like  |
| 5  | <a href="#">d2cc0a1</a> |  |  | 100.0      | 16     | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> NodB-like polysaccharide deacetylase   |
| 6  | <a href="#">c3qbuD_</a> |  |  | 100.0      | 20     | <b>PDB header:</b> hydrolase<br><b>Chain:</b> D: <b>PDB Molecule:</b> putative uncharacterized protein;<br><b>PDBTitle:</b> crystal structure of putative peptidoglycan deacetylase (hp0310) from2 helicobacter pylori                |
| 7  | <a href="#">d2iw0a1</a> |  |  | 100.0      | 22     | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> NodB-like polysaccharide deacetylase   |
| 8  | <a href="#">d2j13a1</a> |  |  | 100.0      | 20     | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> NodB-like polysaccharide deacetylase   |
| 9  | <a href="#">c2vyoA_</a> |  |  | 100.0      | 17     | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> chitooligosaccharide deacetylase;<br><b>PDBTitle:</b> chitin deacetylase family member from encephalitozoon2 cuniculi   |
| 10 | <a href="#">c3s6oD_</a> |  |  | 100.0      | 18     | <b>PDB header:</b> hydrolase<br><b>Chain:</b> D: <b>PDB Molecule:</b> polysaccharide deacetylase family protein;<br><b>PDBTitle:</b> crystal structure of a polysaccharide deacetylase family protein from2 burkholderia pseudomallei |
| 11 | <a href="#">c2w3zA_</a> |  |  | 100.0      | 21     | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> putative deacetylase;<br><b>PDBTitle:</b> structure of a streptococcus mutans ce4 esterase  |

|    |                          |  |       |    |  |
|----|--------------------------|--|-------|----|--|
| 12 | <a href="#">d2c1ia1</a>  |  | 100.0 | 22 | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> NodB-like polysaccharide deacetylase  |
| 13 | <a href="#">c2iw0A</a>   |  | 100.0 | 20 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> chitin deacetylase;<br><b>PDBTitle:</b> structure of the chitin deacetylase from the fungal2 pathogen <i>colletotrichum lindemuthianum</i>   |
| 14 | <a href="#">d2c71a1</a>  |  | 100.0 | 18 | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> NodB-like polysaccharide deacetylase  |
| 15 | <a href="#">c3rxzA</a>   |  | 100.0 | 26 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> polysaccharide deacetylase;<br><b>PDBTitle:</b> crystal structure of putative polysaccharide deacetylase from2 mycobacterium smegmatis   |
| 16 | <a href="#">d2nly1a1</a> |  | 100.0 | 16 | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> Divergent polysaccharide deacetylase  |
| 17 | <a href="#">d1k1xa3</a>  |  | 99.4  | 16 | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> 4-alpha-glucantransferase, N-terminal domain  |
| 18 | <a href="#">c1k1yA</a>   |  | 99.0  | 16 | <b>PDB header:</b> transferase<br><b>Chain:</b> A: <b>PDB Molecule:</b> 4-alpha-glucantransferase;<br><b>PDBTitle:</b> crystal structure of thermococcus litoralis 4-alpha-glucantransferase2 complexed with acarbose  |
| 19 | <a href="#">c2b5dx</a>   |  | 99.0  | 15 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> X: <b>PDB Molecule:</b> alpha-amylase;<br><b>PDBTitle:</b> crystal structure of the novel alpha-amylase amyc from thermotoga2 maritima   |
| 20 | <a href="#">d2b5dx2</a>  |  | 98.9  | 13 | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> AmyC N-terminal domain-like   |
| 21 | <a href="#">c3hftA</a>   |  | 98.8  | 15 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> wbms, polysaccharide deacetylase involved in o-antigen<br><b>PDBTitle:</b> crystal structure of a putative polysaccharide deacetylase involved in2 o-antigen biosynthesis (wbms, bb0128) from bordetella bronchiseptica3 at 1.90 a resolution  |
| 22 | <a href="#">d1ufaa2</a>  |  | 98.6  | 24 | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> AmyC N-terminal domain-like   |
| 23 | <a href="#">c2qv5A</a>   |  | 98.5  | 16 | <b>PDB header:</b> structural genomics, unknown function<br><b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized protein atu2773;<br><b>PDBTitle:</b> crystal structure of uncharacterized protein atu2773 from2 agrobacterium tumefaciens c58<br><b>PDB header:</b> structural genomics, unknown function<br><b>Chain:</b> A: <b>PDB Molecule:</b> tt1467 protein;<br><b>PDBTitle:</b> crystal structure of tt1467 from thermus thermophilus hb8 |
| 24 | <a href="#">c1ufaA</a>   |  | 98.3  | 18 | <b>PDB header:</b> transferase<br><b>Chain:</b> A: <b>PDB Molecule:</b> alpha-amylase, gh57 family;<br><b>PDBTitle:</b> crystal structure of tk1436, a gh57 branching enzyme from2 hyperthermophilic archaeon thermococcus kodakaraensis, in complex3 with glucose   |
| 25 | <a href="#">c3n92A</a>   |  | 98.2  | 23 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> alpha-mannosidase;<br><b>PDBTitle:</b> structure of the streptococcus pyogenes family gh38 alpha-2 mannosidase   |
| 26 | <a href="#">c2wyhA</a>   |  | 95.7  | 10 | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> LamB/YcsF-like  |
| 27 | <a href="#">d1v6ta</a>   |  | 94.8  | 17 | <b>Fold:</b> 7-stranded beta/alpha barrel  |

|    |                         |           |              |      |    |  |
|----|-------------------------|-----------|--------------|------|----|--|
| 28 | <a href="#">d2j5ia1</a> | Alignment | not modelled | 89.9 | 12 | <b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> YdjC-like  |
| 29 | <a href="#">c1htyA</a>  | Alignment | not modelled | 88.2 | 10 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> alpha-mannosidase ii;<br><b>PDBTitle:</b> golgi alpha-mannosidase ii   |
| 30 | <a href="#">d3bvua3</a> | Alignment | not modelled | 79.8 | 11 | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> alpha-mannosidase   |
| 31 | <a href="#">c1o7dA</a>  | Alignment | not modelled | 79.4 | 14 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> lysosomal alpha-mannosidase;<br><b>PDBTitle:</b> the structure of the bovine lysosomal a-mannosidase2 suggests a novel mechanism for low ph activation   |
| 32 | <a href="#">c2ow7A</a>  | Alignment | not modelled | 76.3 | 12 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> alpha-mannosidase 2;<br><b>PDBTitle:</b> golgi alpha-mannosidase ii complex with (1r,6s,7r,8s)-1-2 thionabicyclo[4.3.0]nonan-7,8-diol chloride   |
| 33 | <a href="#">c3k2gA</a>  | Alignment | not modelled | 74.4 | 16 | <b>PDB header:</b> resiniferatoxin binding protein<br><b>Chain:</b> A: <b>PDB Molecule:</b> resiniferatoxin-binding, phosphotriesterase-<br><b>PDBTitle:</b> crystal structure of a resiniferatoxin-binding protein from2 rhodobacter sphaeroides                          |
| 34 | <a href="#">d1tqha</a>  | Alignment | not modelled | 56.8 | 13 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Carboxylesterase/lipase  |
| 35 | <a href="#">d1dxqa</a>  | Alignment | not modelled | 55.0 | 10 | <b>Fold:</b> Flavodoxin-like<br><b>Superfamily:</b> Flavoproteins<br><b>Family:</b> Quinone reductase  |
| 36 | <a href="#">d2qwxa1</a> | Alignment | not modelled | 50.3 | 15 | <b>Fold:</b> Flavodoxin-like<br><b>Superfamily:</b> Flavoproteins<br><b>Family:</b> Quinone reductase  |
| 37 | <a href="#">d1xkla</a>  | Alignment | not modelled | 50.2 | 17 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Hydroxynitrile lyase-like  |
| 38 | <a href="#">c2qiwa</a>  | Alignment | not modelled | 50.0 | 13 | <b>PDB header:</b> transferase<br><b>Chain:</b> A: <b>PDB Molecule:</b> pep phosphonomutase;<br><b>PDBTitle:</b> crystal structure of a putative phosphoenolpyruvate phosphonomutase2 (ncgl1015, cgl1060) from corynebacterium glutamicum atcc 13032 at3 1.80 a resolution |
| 39 | <a href="#">c3dqzB</a>  | Alignment | not modelled | 48.3 | 11 | <b>PDB header:</b> lyase<br><b>Chain:</b> B: <b>PDB Molecule:</b> alpha-hydroxynitrile lyase-like protein;<br><b>PDBTitle:</b> structure of the hydroxynitrile lyase from arabidopsis2 thaliana  |
| 40 | <a href="#">d1xjca</a>  | Alignment | not modelled | 47.9 | 16 | <b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases<br><b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases<br><b>Family:</b> Nitrogenase iron protein-like  |
| 41 | <a href="#">d1qrda</a>  | Alignment | not modelled | 42.5 | 13 | <b>Fold:</b> Flavodoxin-like<br><b>Superfamily:</b> Flavoproteins<br><b>Family:</b> Quinone reductase  |
| 42 | <a href="#">c3dyva</a>  | Alignment | not modelled | 41.4 | 11 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> esterase d;<br><b>PDBTitle:</b> snapshots of esterase d from lactobacillus rhamnosus:2 insights into a rotation driven catalytic mechanism   |
| 43 | <a href="#">d2dfaa1</a> | Alignment | not modelled | 41.1 | 14 | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> LamB/YcsF-like  |
| 44 | <a href="#">d3c70a1</a> | Alignment | not modelled | 40.0 | 18 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Hydroxynitrile lyase-like  |
| 45 | <a href="#">c2x5eA</a>  | Alignment | not modelled | 35.5 | 18 | <b>PDB header:</b> unknown function<br><b>Chain:</b> A: <b>PDB Molecule:</b> upf0271 protein pa4511;<br><b>PDBTitle:</b> crystal structure of the hypothetical protein pa4511 from2 pseudomonas aeruginosa   |
| 46 | <a href="#">d1d4aa</a>  | Alignment | not modelled | 34.4 | 12 | <b>Fold:</b> Flavodoxin-like<br><b>Superfamily:</b> Flavoproteins<br><b>Family:</b> Quinone reductase  |
| 47 | <a href="#">c3gzjB</a>  | Alignment | not modelled | 32.3 | 12 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> B: <b>PDB Molecule:</b> polyneuridine-aldehyde esterase;<br><b>PDBTitle:</b> crystal structure of polyneuridine aldehyde esterase2 complexed with 16-epi-vellosimine   |
| 48 | <a href="#">d1e89a</a>  | Alignment | not modelled | 32.2 | 18 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Hydroxynitrile lyase-like  |
| 49 | <a href="#">c2vdaA</a>  | Alignment | not modelled | 31.9 | 18 | <b>PDB header:</b> protein transport<br><b>Chain:</b> A: <b>PDB Molecule:</b> translocase subunit seca;<br><b>PDBTitle:</b> solution structure of the seca-signal peptide complex  |
| 50 | <a href="#">c1nl3B</a>  | Alignment | not modelled | 28.8 | 21 | <b>PDB header:</b> protein transport<br><b>Chain:</b> B: <b>PDB Molecule:</b> preprotein translocase seca subunit;<br><b>PDBTitle:</b> crystal structure of the seca protein translocation atpase2 from mycobacterium tuberculosis in apo form                             |
| 51 | <a href="#">d1x8da1</a> | Alignment | not modelled | 28.0 | 21 | <b>Fold:</b> Ferrodoxin-like<br><b>Superfamily:</b> Dimeric alpha+beta barrel<br><b>Family:</b> YiiL-like  |
| 52 | <a href="#">c2ipcB</a>  | Alignment | not modelled | 27.9 | 18 | <b>PDB header:</b> transport protein<br><b>Chain:</b> B: <b>PDB Molecule:</b> preprotein translocase seca subunit;<br><b>PDBTitle:</b> crystal structure of the translocation atpase seca from thermus2 thermophilus reveals a parallel, head-to-head dimer                |
| 53 | <a href="#">c3dinB</a>  | Alignment | not modelled | 25.1 | 18 | <b>PDB header:</b> membrane protein, protein transport<br><b>Chain:</b> B: <b>PDB Molecule:</b> protein translocase subunit seca;<br><b>PDBTitle:</b> crystal structure of the protein-translocation complex formed by the2 secy channel and the seca atpase               |
| 54 | <a href="#">d1pnea</a>  | Alignment | not modelled | 24.3 | 7  | <b>Fold:</b> Profilin-like<br><b>Superfamily:</b> Profilin (actin-binding protein)   |

|    |                         |           |              |      |    |   |
|----|-------------------------|-----------|--------------|------|----|---|
|    |                         |           |              |      |    | <b>Family:</b> Profilin (actin-binding protein)   |
| 55 | <a href="#">c3juxA</a>  | Alignment | not modelled | 24.2 | 18 | <b>PDB header:</b> protein transport<br><b>Chain:</b> A: <b>PDB Molecule:</b> protein translocase subunit seca;<br><b>PDBTitle:</b> structure of the translocation atpase seca from thermotoga2 maritima  |
| 56 | <a href="#">d2pbdp1</a> | Alignment | not modelled | 23.3 | 7  | <b>Fold:</b> Profilin-like<br><b>Superfamily:</b> Profilin (actin-binding protein)<br><b>Family:</b> Profilin (actin-binding protein)   |
| 57 | <a href="#">c1u2eA</a>  | Alignment | not modelled | 22.8 | 17 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> 2-hydroxy-6-ketonona-2,4-dienedioic acid<br><b>PDBTitle:</b> crystal structure of the c-c bond hydrolase mhpc   |
| 58 | <a href="#">c2k6xA</a>  | Alignment | not modelled | 20.7 | 12 | <b>PDB header:</b> transcription<br><b>Chain:</b> A: <b>PDB Molecule:</b> rna polymerase sigma factor rpd; <b>PDBTitle:</b> autoregulation of a group 1 bacterial sigma factor involves2 the formation of a region 1.1- induced compacted structure |
| 59 | <a href="#">c3lvtA</a>  | Alignment | not modelled | 20.6 | 4  | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> glycosyl hydrolase, family 38; <b>PDBTitle:</b> the crystal structure of a protein in the glycosyl hydrolase2 family 38 from enterococcus faecalis to 2.55a                   |
| 60 | <a href="#">c3fobA</a>  | Alignment | not modelled | 20.4 | 16 | <b>PDB header:</b> oxidoreductase<br><b>Chain:</b> A: <b>PDB Molecule:</b> bromoperoxidase; <b>PDBTitle:</b> crystal structure of bromoperoxidase from bacillus anthracis   |
| 61 | <a href="#">d1jmsa4</a> | Alignment | not modelled | 20.3 | 11 | <b>Fold:</b> Nucleotidyltransferase<br><b>Superfamily:</b> Nucleotidyltransferase<br><b>Family:</b> DNA polymerase beta-like  |
| 62 | <a href="#">d1xw8a</a>  | Alignment | not modelled | 19.6 | 18 | <b>Fold:</b> 7-stranded beta/alpha barrel<br><b>Superfamily:</b> Glycoside hydrolase/deacetylase<br><b>Family:</b> LamB/YcsF-like   |
| 63 | <a href="#">d1a8sa</a>  | Alignment | not modelled | 18.4 | 14 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Haloperoxidase  |
| 64 | <a href="#">d1ptrf</a>  | Alignment | not modelled | 18.2 | 21 | <b>Fold:</b> OB-fold<br><b>Superfamily:</b> Bacterial enterotoxins<br><b>Family:</b> Bacterial AB5 toxins, B-subunits   |
| 65 | <a href="#">d1r57a</a>  | Alignment | not modelled | 17.9 | 11 | <b>Fold:</b> Acyl-CoA N-acyltransferases (Nat)<br><b>Superfamily:</b> Acyl-CoA N-acyltransferases (Nat)<br><b>Family:</b> N-acetyl transferase, NAT   |
| 66 | <a href="#">c2qlxA</a>  | Alignment | not modelled | 17.8 | 26 | <b>PDB header:</b> isomerase<br><b>Chain:</b> A: <b>PDB Molecule:</b> I-rhamnose mutarotate; <b>PDBTitle:</b> crystal structure of rhamnose mutarotate rhau of rhizobium2 leguminosarum in complex with I-rhamnose                                  |
| 67 | <a href="#">c2qlwA</a>  | Alignment | not modelled | 17.8 | 26 | <b>PDB header:</b> isomerase<br><b>Chain:</b> A: <b>PDB Molecule:</b> rhamnose; <b>PDBTitle:</b> crystal structure of rhamnose mutarotate rhau of rhizobium2 leguminosarum  |
| 68 | <a href="#">c3m1yA</a>  | Alignment | not modelled | 17.3 | 14 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> phosphoserine phosphatase (serb); <b>PDBTitle:</b> crystal structure of a phosphoserine phosphatase (serb) from2 helicobacter pylori  |
| 69 | <a href="#">d1brta</a>  | Alignment | not modelled | 17.1 | 16 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Haloperoxidase  |
| 70 | <a href="#">d1vp8a</a>  | Alignment | not modelled | 16.8 | 9  | <b>Fold:</b> Pyruvate kinase C-terminal domain-like<br><b>Superfamily:</b> PK C-terminal domain-like<br><b>Family:</b> MTH1675-like   |
| 71 | <a href="#">d1a8qa</a>  | Alignment | not modelled | 16.7 | 24 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Haloperoxidase  |
| 72 | <a href="#">d1uk8a</a>  | Alignment | not modelled | 16.3 | 18 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Carbon-carbon bond hydrolase  |
| 73 | <a href="#">d1va4a</a>  | Alignment | not modelled | 16.0 | 14 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Haloperoxidase  |
| 74 | <a href="#">d1c4xa</a>  | Alignment | not modelled | 15.6 | 13 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Carbon-carbon bond hydrolase  |
| 75 | <a href="#">c3u1tA</a>  | Alignment | not modelled | 15.4 | 14 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> dmma haloalkane dehalogenase; <b>PDBTitle:</b> haloalkane dehalogenase, dmma, of marine microbial origin  |
| 76 | <a href="#">d1r3da</a>  | Alignment | not modelled | 15.3 | 16 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Hypothetical protein VC1974   |
| 77 | <a href="#">d1l7da2</a> | Alignment | not modelled | 14.3 | 7  | <b>Fold:</b> Flavodoxin-like<br><b>Superfamily:</b> Formate/glycerate dehydrogenase catalytic domain-like<br><b>Family:</b> L-alanine dehydrogenase-like  |
| 78 | <a href="#">d1s2oa1</a> | Alignment | not modelled | 14.0 | 15 | <b>Fold:</b> HAD-like<br><b>Superfamily:</b> HAD-like<br><b>Family:</b> Predicted hydrolases Cof  |
| 79 | <a href="#">d1b6ga</a>  | Alignment | not modelled | 13.8 | 13 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Halalkane dehalogenase  |
| 80 | <a href="#">d1t57a</a>  | Alignment | not modelled | 13.8 | 15 | <b>Fold:</b> Pyruvate kinase C-terminal domain-like<br><b>Superfamily:</b> PK C-terminal domain-like<br><b>Family:</b> MTH1675-like   |
|    |                         |           |              |      |    | <b>PDB header:</b> oxidoreductase   |

|    |                         |  |           |              |      |    |   |
|----|-------------------------|--|-----------|--------------|------|----|---|
| 81 | <a href="#">c3dnfB</a>  |  | Alignment | not modelled | 13.5 | 21 | <b>Chain:</b> B: <b>PDB Molecule:</b> 4-hydroxy-3-methylbut-2-enyl diphosphate reductase;<br><b>PDBTitle:</b> structure of (e)-4-hydroxy-3-methyl-but-2-enyl diphosphate reductase,2 the terminal enzyme of the non-mevalonate pathway  |
| 82 | <a href="#">c3rhgA</a>  |  | Alignment | not modelled | 13.1 | 14 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> putative phosphotriesterase;<br><b>PDBTitle:</b> crystal structure of amidohydrolase pmi1525 (target efi-500319) from2 proteus mirabilis hi4320   |
| 83 | <a href="#">c2cjpa</a>  |  | Alignment | not modelled | 13.0 | 16 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> epoxide hydrolase;<br><b>PDBTitle:</b> structure of potato (solanum tuberosum) epoxide hydrolase i2 (steh1)   |
| 84 | <a href="#">d2c7fa2</a> |  | Alignment | not modelled | 12.9 | 13 | <b>Fold:</b> TIM beta/alpha-barrel<br><b>Superfamily:</b> (Trans)glycosidases<br><b>Family:</b> beta-glycanases   |
| 85 | <a href="#">d1hkha</a>  |  | Alignment | not modelled | 12.7 | 16 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Haloperoxidase  |
| 86 | <a href="#">c2wtaA</a>  |  | Alignment | not modelled | 12.2 | 20 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> nicotinamidase;<br><b>PDBTitle:</b> acinetobacter baumanii nicotinamidase pyrazinamidease   |
| 87 | <a href="#">c2e3ja</a>  |  | Alignment | not modelled | 11.7 | 15 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> epoxide hydrolase ephb;<br><b>PDBTitle:</b> the crystal structure of epoxide hydrolase b (rv1938) from2 mycobacterium tuberculosis at 2.1 angstrom  |
| 88 | <a href="#">c3obeB</a>  |  | Alignment | not modelled | 11.7 | 9  | <b>PDB header:</b> isomerase<br><b>Chain:</b> B: <b>PDB Molecule:</b> sugar phosphate isomerase/epimerase;<br><b>PDBTitle:</b> crystal structure of a sugar phosphate isomerase/epimerase (bdi_3400)2 from parabacteroides distasonis atcc 8503 at 1.70 a resolution              |
| 89 | <a href="#">c1vjqB</a>  |  | Alignment | not modelled | 11.6 | 23 | <b>PDB header:</b> structural genomics, de novo protein<br><b>Chain:</b> B: <b>PDB Molecule:</b> designed protein;<br><b>PDBTitle:</b> designed protein based on backbone conformation of2 procarboxypeptidase-a (laye) with sidechains chosen for maximal 3 predicted stability. |
| 90 | <a href="#">d1ygea1</a> |  | Alignment | not modelled | 11.6 | 14 | <b>Fold:</b> Phosphorylase/hydrolase-like<br><b>Superfamily:</b> AF0625-like<br><b>Family:</b> AF0625-like  |
| 91 | <a href="#">d2rhwa1</a> |  | Alignment | not modelled | 11.6 | 15 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Carbon-carbon bond hydrolase  |
| 92 | <a href="#">d1lufoa</a> |  | Alignment | not modelled | 11.5 | 13 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Hypothetical protein TT1662   |
| 93 | <a href="#">d1pava</a>  |  | Alignment | not modelled | 10.8 | 14 | <b>Fold:</b> IF3-like<br><b>Superfamily:</b> SirA-like<br><b>Family:</b> SirA-like  |
| 94 | <a href="#">d1p6va</a>  |  | Alignment | not modelled | 10.7 | 23 | <b>Fold:</b> Small protein B (SmpB)<br><b>Superfamily:</b> Small protein B (SmpB)<br><b>Family:</b> Small protein B (SmpB)  |
| 95 | <a href="#">c3kc2A</a>  |  | Alignment | not modelled | 10.7 | 27 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized protein ykr070w;<br><b>PDBTitle:</b> crystal structure of mitochondrial had-like phosphatase from2 saccharomyces cerevisiae   |
| 96 | <a href="#">c2xt0A</a>  |  | Alignment | not modelled | 10.6 | 16 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> haloalkane dehalogenase;<br><b>PDBTitle:</b> dehalogenase dppa from plesiocystis pacifica sir-i   |
| 97 | <a href="#">c2xfyA</a>  |  | Alignment | not modelled | 10.3 | 20 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> beta-amylase;<br><b>PDBTitle:</b> crystal structure of barley beta-amylase complexed with2 alpha-cyclodextrin   |
| 98 | <a href="#">c1cr6A</a>  |  | Alignment | not modelled | 10.2 | 16 | <b>PDB header:</b> hydrolase<br><b>Chain:</b> A: <b>PDB Molecule:</b> epoxide hydrolase;<br><b>PDBTitle:</b> crystal structure of murine soluble epoxide hydrolase2 complexed with cpu inhibitor  |
| 99 | <a href="#">d1zd3a2</a> |  | Alignment | not modelled | 10.1 | 19 | <b>Fold:</b> alpha/beta-Hydrolases<br><b>Superfamily:</b> alpha/beta-Hydrolases<br><b>Family:</b> Epoxide hydrolase   |