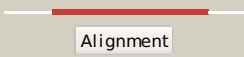
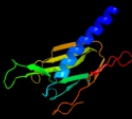
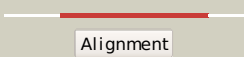

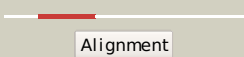

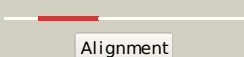


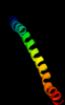
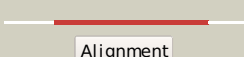

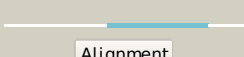

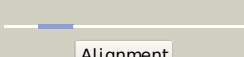



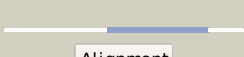







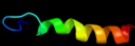


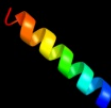


Phyre2

| | |
|---------------|-----------------------------|
| Email | I.a.kelley@imperial.ac.uk |
| Description | P08371 |
| Date | Thu Jan 5 11:01:20 GMT 2012 |
| Unique Job ID | 6b03ffaf243c6163 |

Detailed template information

| # | Template | Alignment Coverage | 3D Model | Confidence | % i.d. | Template Information |
|----|-------------------------|---|---|------------|--------|--|
| 1 | d2retb1 |  Alignment |  | 98.4 | 13 | Fold: Pili subunits Superfamily: Pili subunits Family: EpsJ-like |
| 2 | d3ci0j1 |  Alignment |  | 98.4 | 11 | Fold: Pili subunits Superfamily: Pili subunits Family: EpsJ-like |
| 3 | c3sokB_ |  Alignment |  | 98.3 | 18 | PDB header: cell adhesion Chain: B: PDB Molecule: fimbrial protein; PDBTitle: dichelobacter nodosus pilin fima |
| 4 | d1oqwa_ |  Alignment |  | 98.2 | 17 | Fold: Pili subunits Superfamily: Pili subunits Family: Pilin |
| 5 | d2pila_ |  Alignment |  | 98.0 | 21 | Fold: Pili subunits Superfamily: Pili subunits Family: Pilin |
| 6 | c3njeA_ |  Alignment |  | 97.9 | 13 | PDB header: protein transport Chain: A: PDB Molecule: general secretion pathway protein j; PDBTitle: structure of the minor pseudopilin xcpw from the pseudomonas2 aeruginosa type ii secretion system |
| 7 | d2qc9a1 |  Alignment |  | 38.0 | 16 | Fold: Lipocalins Superfamily: Lipocalins Family: Phenolic acid decarboxylase (PAD) |
| 8 | c4a18U_ |  Alignment |  | 29.4 | 45 | PDB header: ribosome Chain: U: PDB Molecule: rpl13; PDBTitle: t.thermophila 60s ribosomal subunit in complex with initiation2 factor 6. this file contains 26s rrna and proteins of molecule 1 |
| 9 | c3u5eL_ |  Alignment |  | 27.7 | 55 | PDB header: ribosome Chain: L: PDB Molecule: 60s ribosomal protein l13-a; PDBTitle: the structure of the eukaryotic ribosome at 3.0 resolution |
| 10 | c3nadB_ |  Alignment |  | 23.8 | 17 | PDB header: lyase Chain: B: PDB Molecule: ferulate decarboxylase; PDBTitle: crystal structure of phenolic acid decarboxylase from bacillus pumilus2 ui-670 |
| 11 | c3nx2B_ |  Alignment |  | 13.8 | 22 | PDB header: lyase Chain: B: PDB Molecule: ferulic acid decarboxylase; PDBTitle: enterobacter sp. px6-4 ferulic acid decarboxylase in complex with2 substrate analogues |

| | | | | | | |
|----|-------------------------|-----------|---|------|----|--|
| 12 | c3alzB_ | Alignment |  | 12.1 | 20 | PDB header: viral protein/membrane protein Chain: B: PDB Molecule: cdw150; PDBTitle: crystal structure of the measles virus hemagglutinin bound to its2 cellular receptor slam (form i) |
| 13 | c2kb1A_ | Alignment |  | 11.5 | 6 | PDB header: membrane protein Chain: A: PDB Molecule: wsk3; PDBTitle: nmr studies of a channel protein without membrane:2 structure and dynamics of water-solubilized kcsc |
| 14 | d1r3jc_ | Alignment |  | 10.7 | 6 | Fold: Voltage-gated potassium channels Superfamily: Voltage-gated potassium channels Family: Voltage-gated potassium channels |
| 15 | c3lw5K_ | Alignment |  | 9.8 | 24 | PDB header: photosynthesis Chain: K: PDB Molecule: photosystem i reaction center subunit x psak; PDBTitle: improved model of plant photosystem i |
| 16 | d1jb0K_ | Alignment |  | 7.9 | 28 | Fold: Photosystem I reaction center subunit X, PsaK Superfamily: Photosystem I reaction center subunit X, PsaK Family: Photosystem I reaction center subunit X, PsaK |
| 17 | c1jb0K_ | Alignment |  | 7.9 | 28 | PDB header: photosynthesis Chain: K: PDB Molecule: photosystem 1 reaction centre subunit x; PDBTitle: crystal structure of photosystem i: a photosynthetic reaction center2 and core antenna system from cyanobacteria |
| 18 | d2hgka1 | Alignment |  | 7.6 | 10 | Fold: Bromodomain-like Superfamily: YqcC-like Family: YqcC-like |
| 19 | d2axth1 | Alignment |  | 6.7 | 19 | Fold: Single transmembrane helix Superfamily: Photosystem II 10 kDa phosphoprotein PsbH Family: PsbH-like |

20

[c2wsfG_](#)

Alignment



6.5



50

PDB header:photosynthesis
Chain: G: **PDB Molecule:**photosystem i reaction center subunit v,
PDBTitle: improved model of plant photosystem i