

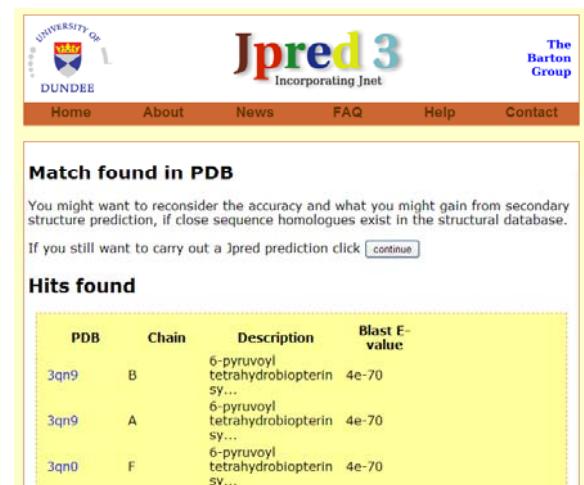
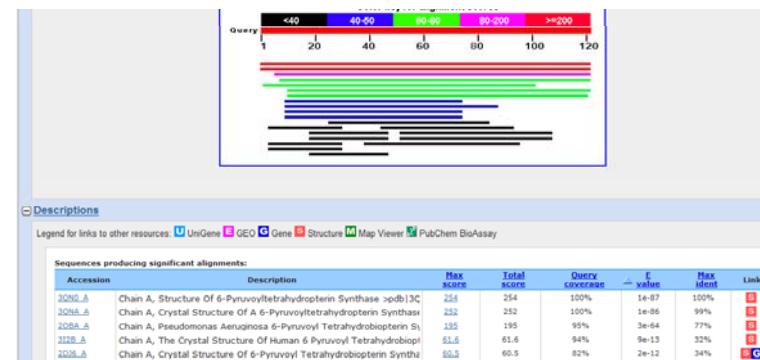
Protein 3D structure prediction

SWISS-MODEL: <http://swissmodel.expasy.org/>

Find 3D template

BlastP: using pdb database

Jpred





[myWorkspace]

[login]

SwissModel Automatic Modelling Mode [?](#)

Email:

Project Title:

Provide a protein sequence or a UniProt AC Code: [?](#)

[Submit Modelling Request](#)

Advanced options:

Use a specific template: [?](#)

PDB-ID: Chain:

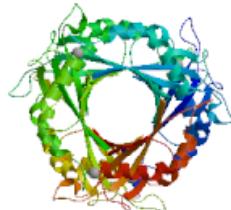
or

Template file: [?](#)

[찾아보기...](#)

[\[myWorkspace \]](#)[\[login \]](#)**Workunit: P000009 bPTPS - Overview**[Print/Save this page as](#)

Model Summary

**Model information:**

Modelled residue range: 2 to 119

Based on template: [3qn9A] (2.93 Å)

Remark: No search for template was performed.

Only user specified template was used for modelling.

Sequence Identity [%]: 100

Evalue: 3.98e-66

Quaternary structure information: [\[details\]](#)

Template (3qn9): HEXAMER

Model: HEXAMER

Ligand information:[\[details\]](#)

Ligands in the template: ZN: 6.

Ligands in the model: ZN: 4

Quality information: [\[details\]](#)

QMEAN Z-Score: -0.82

**logs:** [\[Templates\]](#) [\[Alignment\]](#) [\[Modelling\]](#)**display model:** as [\[pdb\]](#) - as [\[DeepView project\]](#) - in [\[AstexViewer\]](#)**download model:** as [\[pdb\]](#) - as [\[Deepview project\]](#) - as [\[text\]](#)

Global Model Quality Estimation [+/-]

QMEAN4 global scores:

QMEANscore4

Estimated absolute model quality

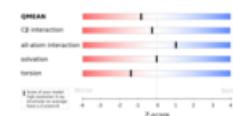
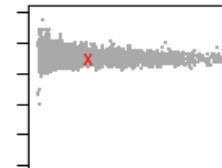
Score components

Local scores

Coloring by residue error

Residue error plot

0.73

[\[save jpg\]](#)[\[save png\]](#)

Structural alignment

ESPript: <http://escript.ibcp.fr/ESPript/ESPript/>

Execute ESPript: <http://escript.ibcp.fr/ESPript/cgi-bin/ESPript.cgi>

Upload aligned file (clustal format):

template structure sequence
model structure sequence

Upload secondary structure

template structure

Click submit

To include model structure go to advanced

Assignment

Homology modelling with the most homologous bacterial protein

Structural alignment with ESPript

Evaluate similarity in 3D structure & secondary structure

run rasmol to show 3D pictures