Retrieve Phyre Job Id **Phyre Home** Fetch



Email eduardo@epamig.br Description AcetylCholinesterase

Thu Dec 31 01:04:51 GMT 2020

Unique Job 9a8664f55b7717b5

MARFITSSSL ... Sequence **Download FASTA**

Job Type **intensive** Job Expiry 30 days





201 601

> Confidence Key High(9) Low (0)

72% of residues modelled at >90% confidence (Details)

Hi-Res image (black background) Hi-Res image (white background)

Interactive 3D view in JSmol



Image coloured by rainbow $N \rightarrow C$ terminus Model dimensions (Å): X:66.144 Y:73.548 Z:72.151

Sequence analysis

View PSI-Blast Pseudo-Multiple Sequence Alignment

Download FASTA version

Secondary structure and disorder prediction [Show]

Domain analysis [Show]

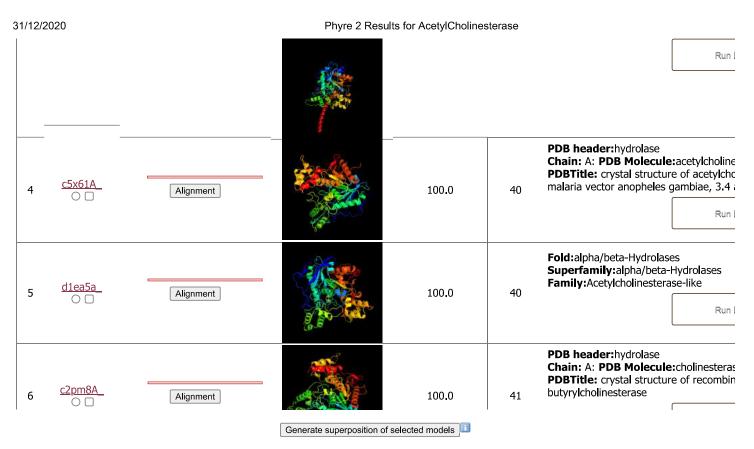
Detailed template information [Hide]







[1000e]							
# i	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template In	
1	<u>d1dx4a</u> ○ □	Alignment		100.0	91	Fold:alpha/beta-Hydrolases Superfamily:alpha/beta-Hydrolases Family:Acetylcholinesterase-like Run I	
2	<u>c6i2tC</u> ○ □	Alignment		100.0	40	PDB header:hydrolase Chain: C: PDB Molecule:cholinesteras PDBTitle: cryoem reconstruction of full butyrylcholinesterase tetramer Run I	
3	<u>c4bdtA</u> ○ □	Alignment		100.0	38	PDB header:hydrolase/inhibitor Chain: A: PDB Molecule:acetylcholine PDBTitle: human acetylcholinesterase fasciculin 2	



Binding site prediction

Multi-template and ab initio information

1 template was selected to model your protein based on heuristics to maximise confidence, percentage identity and alignment coverage. Below is a table indicating where your sequence was covered by each template, colour-coded by the confidence of the match to that template overall.

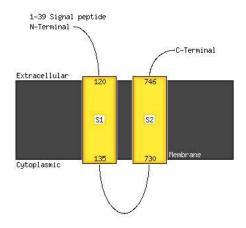
213 residues were modelled by ab initio. Please note: ab initio modelling is **highly** unreliable.

Template	Confidence	1	
d1dx4a	100%		
Template	Confidence	101	
d1dx4a	100%		
Template	Confidence	201	
d1dx4a	100%		
Template	Confidence	301	
d1dx4a	100%		
Template	Confidence	401	
d1dx4a	100%		
Template	Confidence	501	
d1dx4a	100%		
Template	Confidence	601	
d1dx4a	100%		
Template	Confidence	701	
d1dx4a_	100%		

Transmembrane helix prediction

Transmembrane helices have been predicted in your sequence to adopt the topology shown below

query



Phyre is now FREE for commercial users!

All images and data generated by Phyre2 are free to use in any publication with acknowledgement

Please cite: The Phyre2 web portal for protein modeling, prediction and analysis. Kelley LA et al.. Nature Protocols 10, 845-858 (2015)[pdf] [Citation link]

If you use the binding site predictions from 3DLigandSite, **please also cite:**3DLigandSite: predicting ligand-binding sites using similar structures.
Wass MN, Kelley LA and Sternberg MJ Nucleic Acids Research 38, W469-73 (2010)

[PubMed]

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Imperial College London Lawrence Kelley, Michael Sternberg

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Template detection: <u>HHpred 1.51</u> Secondary structure prediction: <u>Psi-pred</u>

<u>2.5</u>

Disorder prediction: <u>Disopred 2.4</u>
Transmembrane prediction: <u>Memsat_SVM</u>

Multi-template modelling and ab initio:

Poing 1.0

