

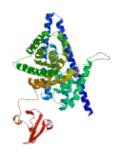


Workunit: P000001

Title:Full



Model Details: Batch.1



Target:

modelled residue range: 3 to 516

3orgC

based on template (3.50

A)

Sequence Identity [%]: 93.191

Evalue: (

Alignment

TARGET 3orgC	3 88		VCFLTLLGVT vcfltllgvt			
TARGET 3orgC			hhhhhhhhhh hhhhhhhhhh			
TARGET 3orgC	51 136		ALCLLSTFWC alcllstfwc		~	
TARGET 3orgC			hhhhhhhhhh hhhhhhhhhh		hhhhhhhh hhhhhhhh	hh hh hh hh
TARGET 3orgC	101 186		GLICAIGGGL glicaigggl		~	
TARGET 3orgC		hhhhhhhh hhhhhhhh			hhhhhhhhhh hhhhhhhhhh	hhh hhh
TARGET 3orgC	151 236	~	AACAVGLASS aacavglass			~
TARGET 3orgC			hhhhhhhhhh hhhhhhhhh	hhhhhhh hhhhhhh		hhhhhhhhh hhhhhhhhh

TARGET 3orgC	201 286			EGTNFDASDV		
TARGET 3orgC		hhhhhhhh hhhhhhhh				hhhhhhhhhh hhhhhhhhhh
TARGET 3orgC	251 336			NRYFLVGVVA nryflvgvva		
TARGET 3orgC		hhhhhhhhh hhhhhhhhh	hhh hhh	hhhhhhhh hhhhhhhh		hh hh
TARGET 3orgC	301 386			LILMPIIKFI lilmpiikfi		
TARGET 3orgC		hhhhh hh hhhhh	hhh	hhhhhhhh hhhhhhhh		hhhhhh hhhhhh
TARGET 3orgC	351 436			IVPGSYAVVG ivpgsyavvg		
TARGET 3orgC		hhhhhhhhhh hhhhhhhhhh	hhhhhh hhh		hhhhhhhhh hhhhhhhhh	hhhhhhhh hhhhhhhh
TARGET 3orgC	401 486			VGNAFNRSLY vgnafnrsly		
TARGET 3orgC			hhhhhhhhhh hhhhhhhhhh		hhhhhhh hhhhhhh	sss
TARGET 3orgC	451 536			DSEPQHIKGI dsepqhikgi		
TARGET 3orgC		hhh ssshhh		hhhhhhh hhhhhhh		
TARGET 3orgC	501 586		~	vspivvtsys		mlmpsmiyvt
TARGET 3orgC		sssshhhhhh sssshhhhh	hh	ssss s	ss hhhhh	h sssss
TARGET 3orgC	691		redvaygysn			
TARGET 3orgC		s ssssss	s sss			

Model Quality Estimation

Modelling log

3.70 (SP3)

Loading Template: 3orgC.pdb

Loading Raw Sequence

Renumber target sequence starting from (3) Loading Alignment: ./NXXX.align.submit.fasta Removing HET groups from template structure

Refining Raw Sequence Alignment

ProModII: doing simple assignment of backbone

ProModII: adding blocking groups

Adding Missing Sidechains

AddPolar H

BuildDeletetedLoopsModel

Building CSP loop with anchor residues PHE 290 and PRO 297

Number of Ligations found: 500

ACCEPTING loop 204: clash= 0 FF= -222.2 PP= -2.00

Finding Spare-Part loop with anchor residues LEU 210 and ASP 229

ACCEPTING loop 10 from 1KPTA Clash= 4 FF= 696.7 PP=1092.21

BadPhi= 1 BadGX= 0 BadXP= 0 weakXP= 0 Score= 7.00 rms= 0.00

Finding Spare-Part loop with anchor residues VAL 308 and THR 319

ACCEPTING loop 138 from 2AK3B Clash= 4 FF= 328.1 PP=1092.52

BadPhi= 0 BadGX= 0 BadXP= 0 weakXP= 0 Score= 6.00 rms= 0.00

Optimizing Sidechains

Adding Hydrogens

Optimizing loops and OXT (nb = 36)

Final Total Energy: -13376.023 KJ/mol

Dumping Sequence Alignment

Model Details: Batch.2



Target:

modelled residue range: 563 to 625
based on template 3orgC (3.50 A)
Sequence Identity [%]: 87.302
Evalue: 1.69308e-23

Alignment

3orgC 88 slmyllrlvc fltllgvtaa lfifavdlav hgleelrmki srlagrfagy

3orgC 138 ilyvvsgval cllstfwcav lsteaegsgl pqmksilsgf ydkmrsalel

3orgC		hhhhhhhhhh	hhhhhhhhhh	h h	hhhhhhh	hh hh
3orgC	188	rvlfakalgl	icaiggglpv	gwegpnvhia	ciiahqfyrl	gvfkelctdr
3orgC		hhhhhhhhhhh	hhhhh	hhhhhhhh	hhhhhhhh	hhh
3orgC	238	alrlqtlaaa	cavglassfg	aplggvlysi	etiasfylvq	afwkgvlsal
3orgC		hhhhhhhhhh	hhhhhhhh	hhhhhhhhh	h	hhhhhhhhhh
3orgC	288	sgaivyeldv	srtqtllyai	lgalmgvlga	lfircvrsiy	elrmrhypgt
3orgC		hhhhhh	hhhhh	hhhhhhhhhh	hhhhhhhhh	hhh
3orgC	356	nryflvgvva	lfasalqypf	pratindlfk	avtelilmpi	ikfilvalsi
3orgC		hhhhhhhh	hhhhhh	hhhhhhh	hhhh	hhhhhhhhhh
3orgC	422	glplpagvfv	psfligagfg	rlygelmrvv	fgnaivpgsy	avvgaaafta
3orgC		hh	hhhhhhhhhh	hhhh hhh	hhh	hhhhhhhhhh
3orgC	472	gvtralscav	iifevtgqir	hlvpvlisvl	lavivgnafn	rslyetlvlm
3orgC		hhh hhhh	hhhh	hhhhhhhh	hhhhh h	hhhhhhhh
3orgC	522	khlpympilr	rdrspemtar	eimhpiegep	hlfpdsepqh	ikgilekfpn
3orgC		h sss	sssh	hh	hhh	hhhhhhh
TARGET 3orgC	563 572	rlvfpvidan	gyllgaisrk		LVVPCDVSPI vvvpcdvspi	~
TARGET 3orgC		ssss	ssssshh	hhh h hh		ssss ssss sss
TARGET 3orgC	590 675		SMIYVTERGK smiyvtergk			

```
TARGET hhhhhhh ssssss s ssssss s ss
```

Model Quality Estimation

Modelling log

```
3.70 (SP3)
Loading Template: 3orgC.pdb
Loading Raw Sequence
Renumber target sequence starting from (563)
Loading Alignment: ./NXXX.align.submit.fasta
Removing HET groups from template structure
Refining Raw Sequence Alignment
ProModII: doing simple assignment of backbone
ProModII: adding blocking groups
Adding Missing Sidechains
AddPolar H
BuildDeletetedLoopsModel
connectivity problem (C-N > 3.0A) at residue: 10
Trying Ligating with anchor residues SER 569 and VAL 572
Trying Ligating with anchor residues SER 568 and VAL 572
Trying Ligating with anchor residues SER 568 and PRO 573
Trying Ligating with anchor residues THR 567 and PRO 573
Number of Ligations found: 88
ACCEPTING loop
                 0: clash= 0 FF=
                                         -22.6 PP= -2.00
Optimizing Sidechains
Adding Hydrogens
Optimizing loops and OXT (nb = 7)
Final Total Energy:
                         -1329.866 KJ/mol
Dumping Sequence Alignment
```

Template Selection Log:

Minimum Template size (aa) for ranking :

Minimum Sequence identity:

60

Cut-off parameters to model the target based on a HHSearch target-template alignment Evalue:

Probability:

MAC:

0.0001

50

0.3

Parameters for model selection

Minimal number of uncovered target

residues after BLAST to run HHSEARCH:

50

Minimal number of uncovered target

residues to model an additional template:

25

- Finish SMR-Pipeline in automated mode on BC2-cluster at Thu May 19 14:12:43 2011

If you publish results using SWISS-MODEL, please cite the following papers:

- Arnold K., Bordoli L., Kopp J., and Schwede T. (2006). The SWISS-MODEL Workspace: A
 web-based environment for protein structure homology modelling.
 Bioinformatics, 22,195-201.
- Schwede T, Kopp J, Guex N, and Peitsch MC (2003) SWISS-MODEL: an automated protein homology-modeling server.
 - Nucleic Acids Research 31: 3381-3385.
- Guex, N. and Peitsch, M. C. (1997) SWISS-MODEL and the Swiss-PdbViewer: An environment for comparative protein modelling.
 <u>Electrophoresis 18: 2714-2723.</u>

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