

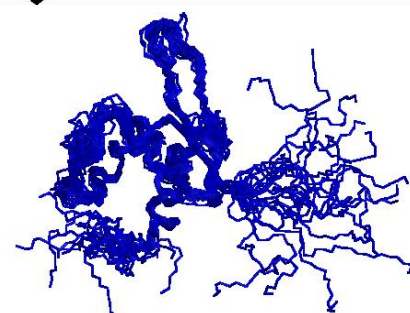
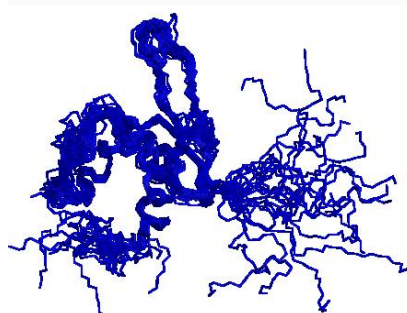
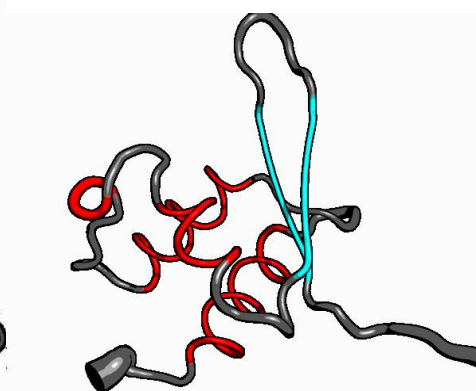
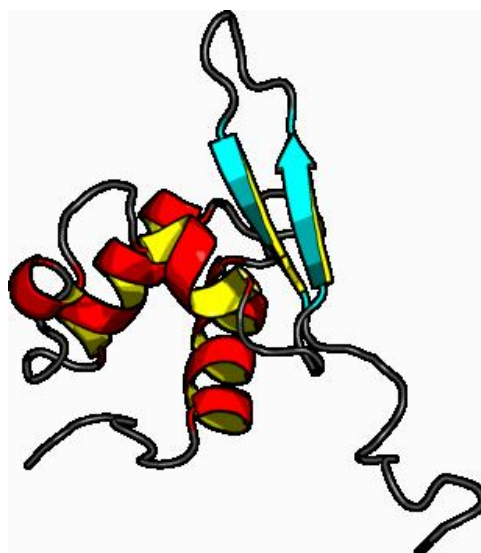


Structure Quality Analysis for NAME

Analyses performed for DAOP well-defined residues.

Procheck analysis, RMSD calculation and structure superimposition are based on DAOP with $S(\phi)+S(\psi)\geq 1.8$: 8A-21A, 27A-39A, 45A-48A, 53A-59A, 63A-80A

NESG ID: NAME
PDB ID:
Deposition date:
Common Name:
Class:
Length (a.a.): 92
Organism:
SwissProt /
TrEMBL ID:
models: 20
Oligomerization: monomer
Molecular
weight: 10580



Secondary Structure Elements:

alpha helices: 9A-20A, 29A-39A, 52A-58A

beta strands: 63A-70A, 73A-80A

FIDs deposited in the BMRB? no

Comparison of core atoms:

DAOP > 1.8 Å : A:8..A:21, A:27..A:39, A:45..A:48, A:53..A:59,
A:63..A:80

FindCore2 : A:7..A:22, A:26..A:41, A:43, A:45, A:51..A:68,
A:73..A:81

CYRANGE : 7..81

RMSD	All residues	Ordered residues ²	Selected residues ³
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Structure Quality Analysis for NAME

<i>All backbone atoms</i>	3.7 Å	0.8 Å	0.8 Å
<i>All heavy atoms</i>	4.4 Å	1.3 Å	1.3 Å

Ramachandran Plot Summary for selected residues³ from Procheck

<i>Most favoured regions</i>	<i>Additionally allowed regions</i>	<i>Generously allowed regions</i>	<i>Disallowed regions</i>
95.2%	4.8%	0.0%	0.0%

Ramachandran Plot Summary for selected residues³ from Richardson Lab's Molprobability

<i>Most favoured regions</i>	<i>Allowed regions</i>	<i>Disallowed regions</i>	View plot View model summary
97.9%	2%	0.2%	

Global quality scores

Program	<i>Verify3D</i>	<i>ProsaII (-ve)</i>	<i>Procheck (phi-psi)³</i>	<i>Procheck (all)³</i>	<i>MolProbability Clashscore</i>
<i>Raw score</i>	0.18	0.41	0.20	0.20	16.85
<i>Z-score¹</i>	-4.49	-0.99	1.10	1.18	-1.37

Close Contacts and Deviations from Ideal Geometry (from PDB validation software)

Number of close contacts (within 1.6 Å for H atoms, 2.2 Å for heavy atoms): 9

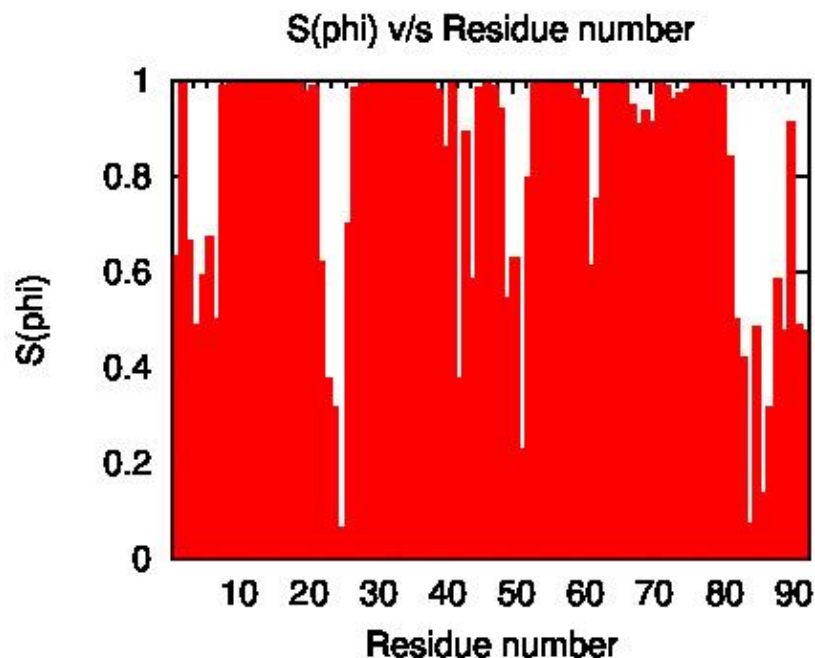
RMS deviation for bond angles: 1.8 °

RMS deviation for bond lengths: 0.020 Å

¹ With respect to mean and standard deviation for a set of 252 X-ray structures < 500 residues, of resolution ≤ 1.80 Å, R-factor ≤ 0.25 and R-free ≤ 0.28; a positive value indicates a 'better' score

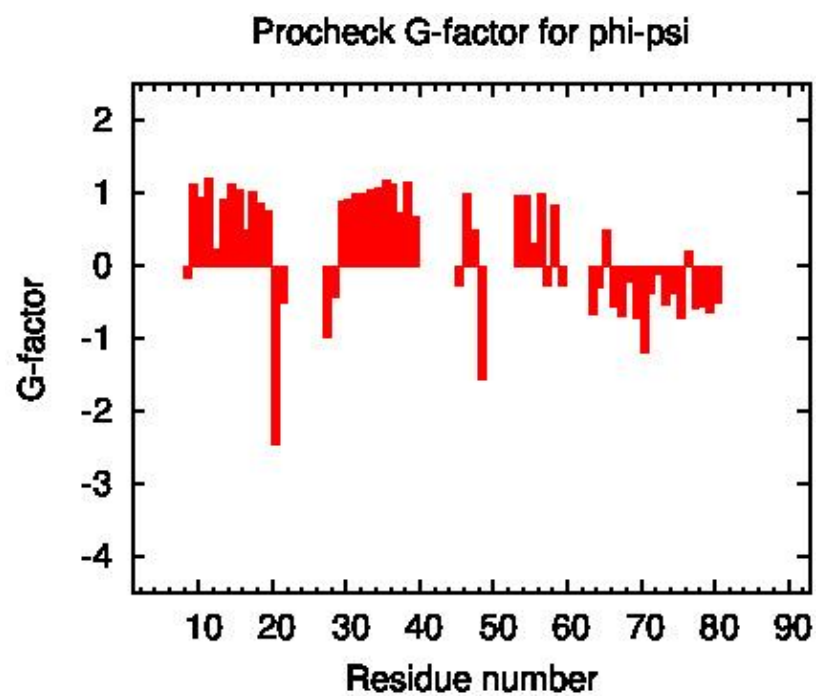
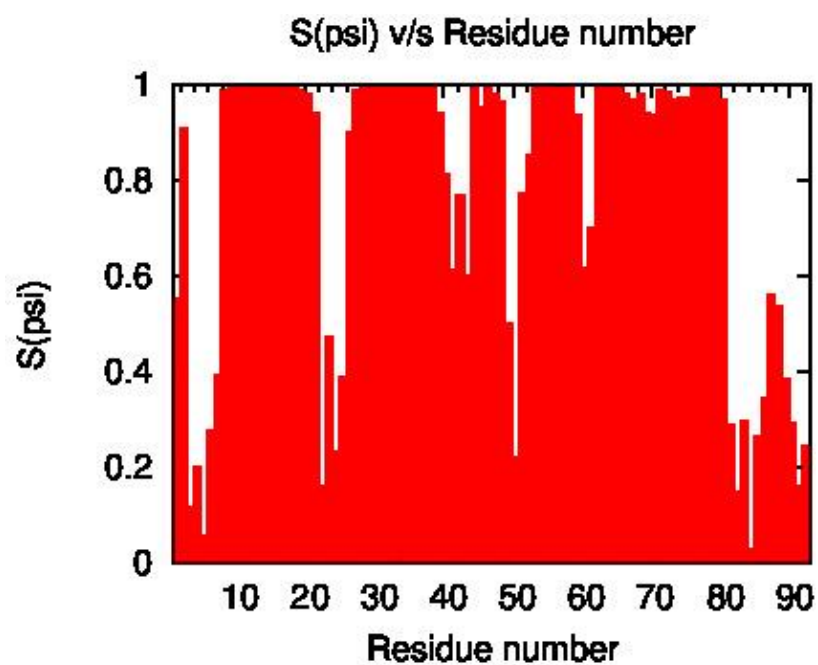
² Ordered residues (DAOP): 8A-21A, 27A-39A, 45A-48A, 53A-59A, 63A-80A

³ Selected residues DAOP with S(phi)+S(psi) ≥ 1.8 : 8A-21A, 27A-39A, 45A-48A, 53A-59A, 63A-80A



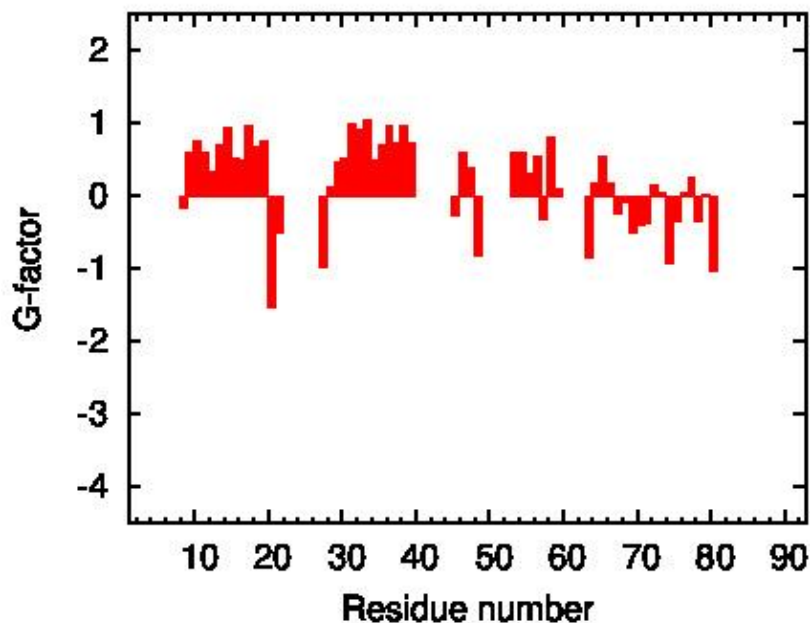


Structure Quality Analysis for NAME

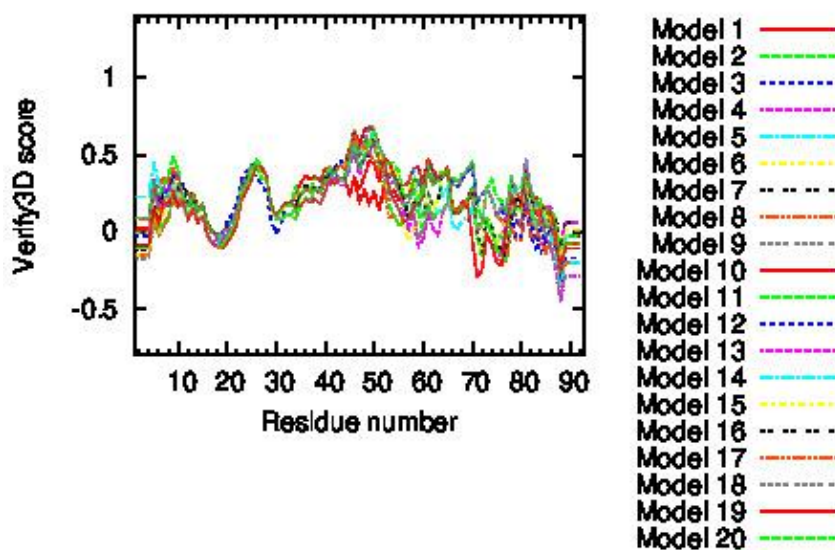




Procheck G-factor for all dihedral angles

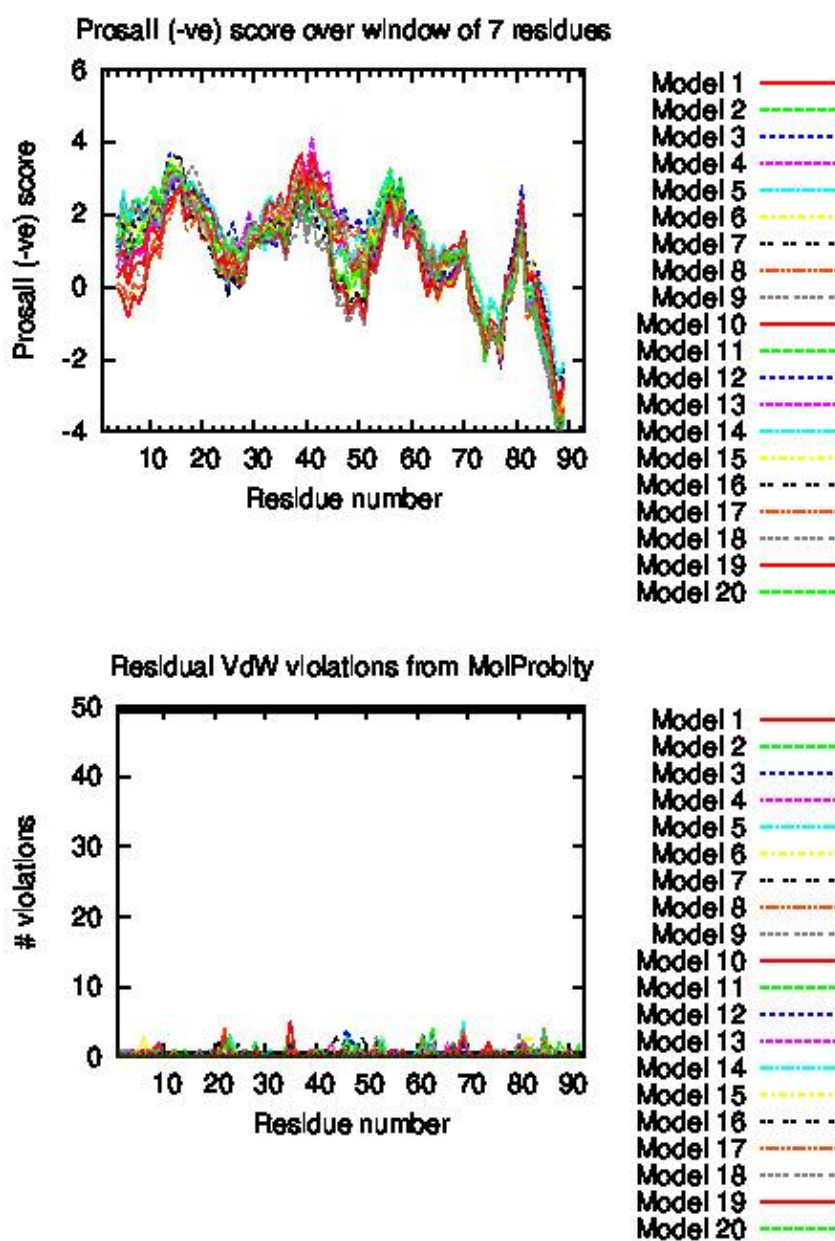


Verify3D score over window of 7 residues



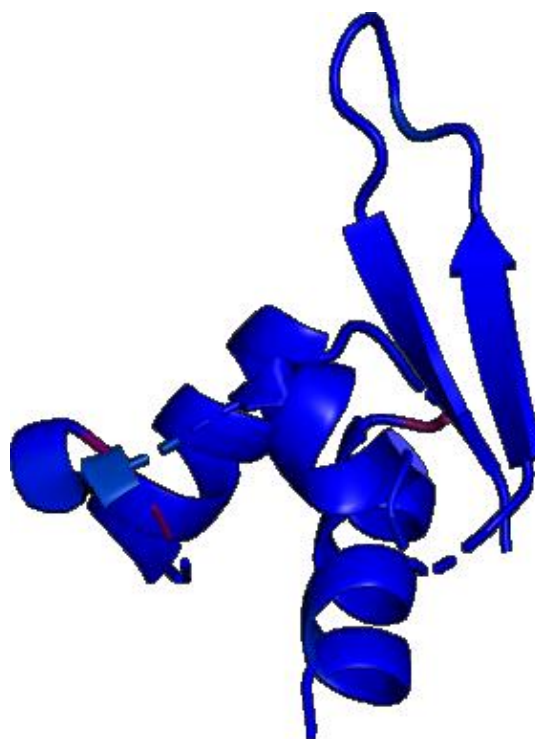


Structure Quality Analysis for NAME





Structure Quality Analysis for NAME



Residue Plot of Ramachandran analysis(based on data from Richardson Lab's Molprobity)

References:

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Protein Structure Validation Suite (PSVS)



Software Environment

Software for structure quality evaluation:

DSSP	DsspCMBI-April-2000
pdbstat	PdbStat-5.20.8 Version
AutoAssign	Version 2.4.0 (uses only AVS scripts)
RPF analysis	ASDP-2.3
PDB validation	Version 8.061
Verify3D	Version 1.0 corrected by Aneerban
ProsaII	Prosa2003
PROCHECK	Version 3.5.4

MolProbity programs:

cluster	1999
clashlistcluster	1999 (corrected by Aneerban)
mage	Version 6.35.040409
prekin	Version 6.35.040406
reduce	Version 2.14
probe	Version 2.6

Other Software:

PERL	Version 5.16.3
convert	ImageMagick 6.7.8
ps2pdf	Ghostscript 9.25
htmldoc	v1.8.28
gnuplot	Version 4.6.2
jpegtopnm	netpbm-progs 10.79.00
pnmcrop	netpbm-progs 10.79.00
pnmtjpeg	netpbm-progs 10.79.00

Information updated on October, 2021. RTT