TM-score Results

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 **************************************************************************
 *                              TM-SCORE                                  *
 * A scoring function to assess the similarity of protein structures      *
 * Based on statistics:                                                   *
 *       0.0 < TM-score < 0.17, random structural similarity              *
 *       0.5 < TM-score < 1.00, in about the same fold                    *
 * Reference: Yang Zhang and Jeffrey Skolnick, Proteins 2004 57: 702-710  *
 * For comments, please email to: zhng@umich.edu                          *
 **************************************************************************

Structure1: A997157     Length=   43
Structure2: B997157     Length=   43 (by which all scores are normalized)
Number of residues in common=   43
RMSD of  the common residues=    0.821

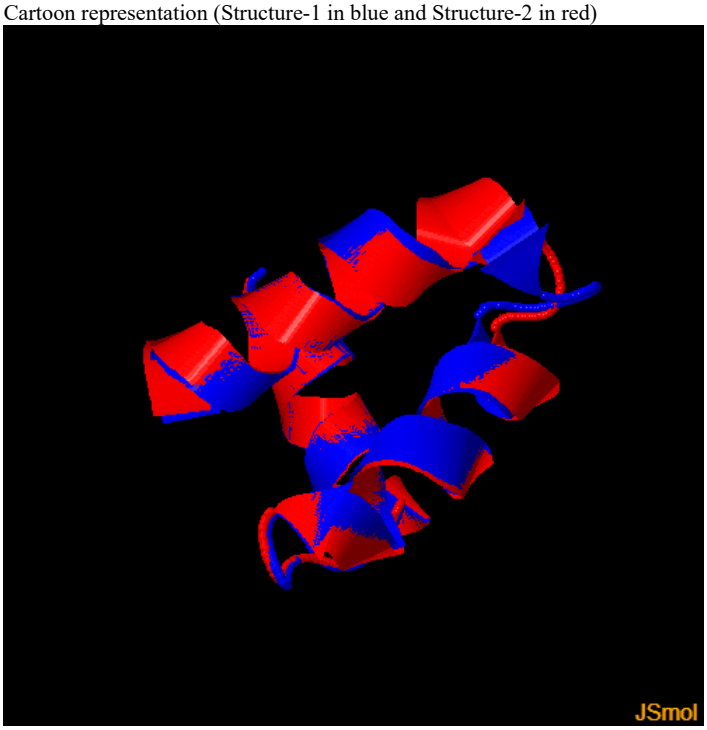
TM-score    = 0.9119  (d0= 1.97)
MaxSub-score= 0.9592  (d0= 3.50)
GDT-TS-score= 0.9709 %(d<1)=0.9070 %(d<2)=0.9767 %(d<4)=1.0000 %(d<8)=1.0000
GDT-HA-score= 0.9012 %(d<0.5)=0.7209 %(d<1)=0.9070 %(d<2)=0.9767 %(d<4)=1.0000

 -------- rotation matrix to rotate Chain-1 to Chain-2 ------
 i          t(i)         u(i,1)         u(i,2)         u(i,3)
 1     20.5284940695  -0.0198194735   0.6168937919   0.7867968212
 2     -1.7443958698  -0.7840956950   0.4786697580  -0.3950559503
 3      4.2713469774  -0.6203234072  -0.6247538013   0.4742167840

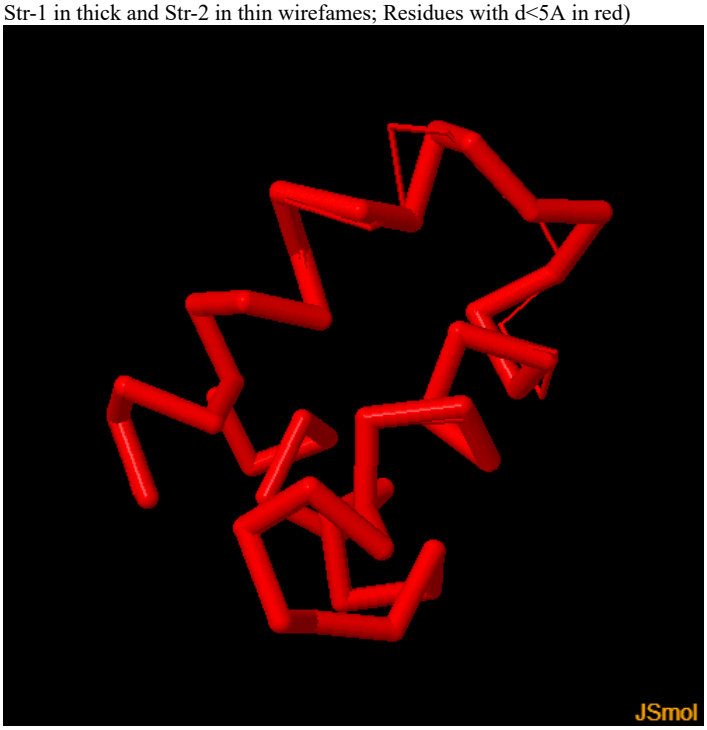
Superposition in the TM-score: Length(d<5.0)= 43  RMSD=  0.82
(":" denotes the residue pairs of distance < 5.0 Angstrom)
RQRAVRMVLESQGEYDSQWATICSIAPKIGCTPETLRVWVRQH
:::::::::::::::::::::::::::::::::::::::::::
RQRAVRMVLESQGEYDSQWATICSIAPKIGCTPETLRVWVRQH
12345678901234567890123456789012345678901234
```

Visualization of TM-score superposition

Cartoon representation (Structure-1 in blue and Structure-2 in red)



Str-1 in thick and Str-2 in thin wirefames; Residues with d<5A in red)



Document downloads

- Click A997157.pdb to download the first structure that you submitted.
- Click B997157.pdb to download the second structure that you submitted.
- Click C997157.pdb to download the superposed structure in C-alpah trace (This file is in a Rasmol script format, you can run 'rasmol -script C997157.pdb' to view the structure).
- Click D997157.pdb to download the superposed structure in full-atom (This file is in a Rasmol script format, you can run 'rasmol -script D997157.pdb' to view the structure).

Reference:

- Y. Zhang, J. Skolnick, Scoring function for automated assessment of protein structure template quality, Proteins, 57: 702-710 (2004).
- J. Xu, Y. Zhang, How significant is a protein structure similarity with TM-score=0.5? Bioinformatics, 26, 889-895 (2010).

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