

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                     *
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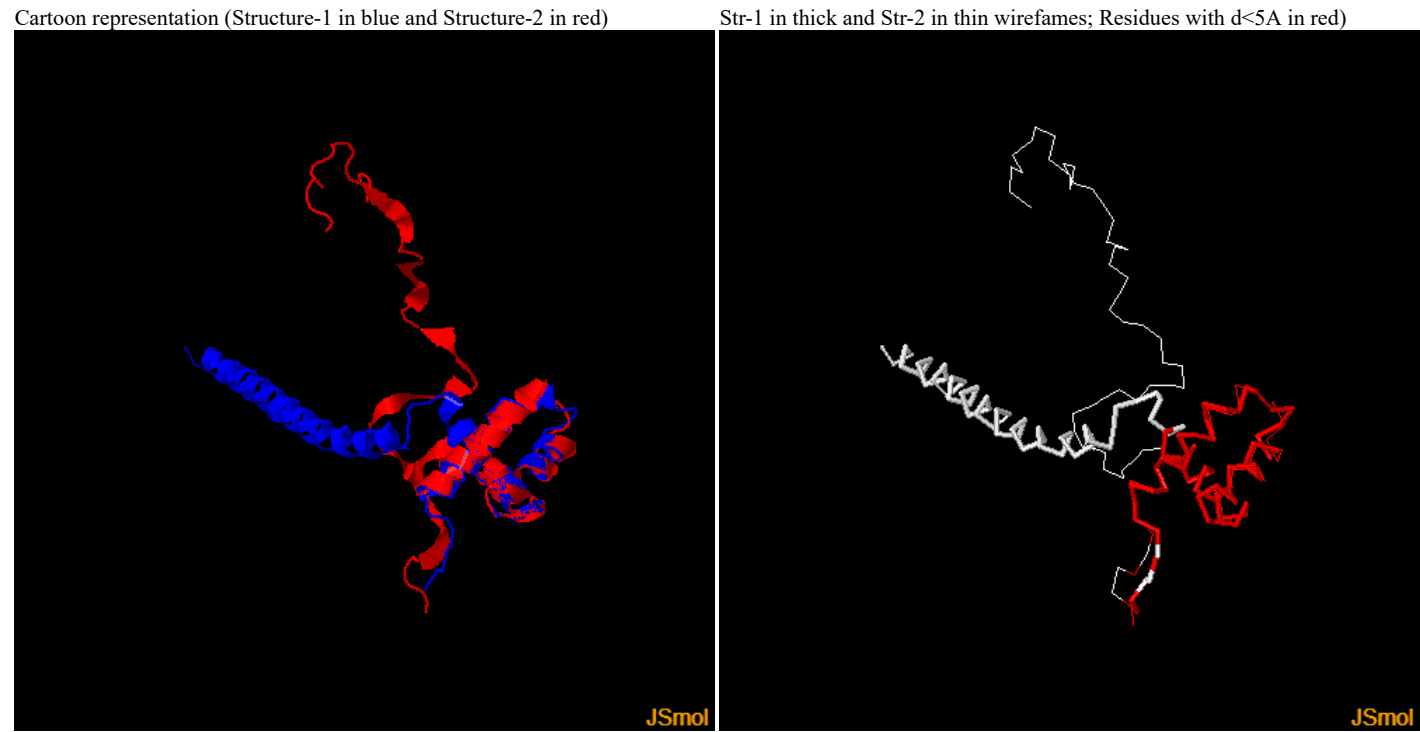
Structure1: A489609      Length= 108
Structure2: B489609      Length= 108 (by which all scores are normalized)
Number of residues in common= 108
RMSD of the common residues= 20.964

TM-score      = 0.5020 (d0= 3.82)
MaxSub-score= 0.4710 (d0= 3.50)
GDT-TS-score= 0.4931 %(d<1)=0.4074 %(d<2)=0.4815 %(d<4)=0.5185 %(d<8)=0.5648
GDT-HA-score= 0.4282 %(d<0.5)=0.3056 %(d<1)=0.4074 %(d<2)=0.4815 %(d<4)=0.5185

----- rotation matrix to rotate Chain-1 to Chain-2 -----
i      t(i)      u(i,1)      u(i,2)      u(i,3)
1      20.4471422283 -0.0107756369  0.6180814019  0.7860402447
2      -1.9259114581 -0.7914549725  0.4751586346 -0.3844779557
3       4.1627404037 -0.6111324833 -0.6262584551  0.4840634620

Superposition in the TM-score: Length(d<5.0)= 55 RMSD= 1.15
(":" denotes the residue pairs of distance < 5.0 Angstrom)
MTKNTRFSPEVRQRAVRMVLESQGEYDSQWATICSIAPKIGCTPETLRVWVRQHERDTGGDDGGLTTAERQRLKEPERENRELRNSNDILRLASAYFAKAEFDRLWKK
:: : ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
MTKNTRFSPEVRQRAVRMVLESQGEYDSQWATICSIAPKIGCTPETLRVWVRQHERDTGGDDGGLTTAERQRLKEPERENRELRNSNDILRLASAYFAKAEFDRLWKK
12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678
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Visualization of TM-score superposition



Document downloads

- Click [A489609.pdb](#) to download the first structure that you submitted.
- Click [B489609.pdb](#) to download the second structure that you submitted.
- Click [C489609.pdb](#) to download the superposed structure in C-alpha trace (This file is in a Rasmol script format, you can run 'rasmol -script C489609.pdb' to view the structure).
- Click [D489609.pdb](#) to download the superposed structure in full-atom (This file is in a Rasmol script format, you can run 'rasmol -script D489609.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).

[Back to TM-score Homepage](#)