

4.6 3D Structure Visualization of the SARS Corona Virus 2 RNA-Dependent RNA Polymerase Protein in RASMOL

The structure 7BTF corresponding to the Structure of SARS Corona Virus 2 RNA-Dependent RNA Polymerase was downloaded from PDB and visualized in Rasmol [4]. The subject sequence shows the structure as shown below (Fig. 4.5).

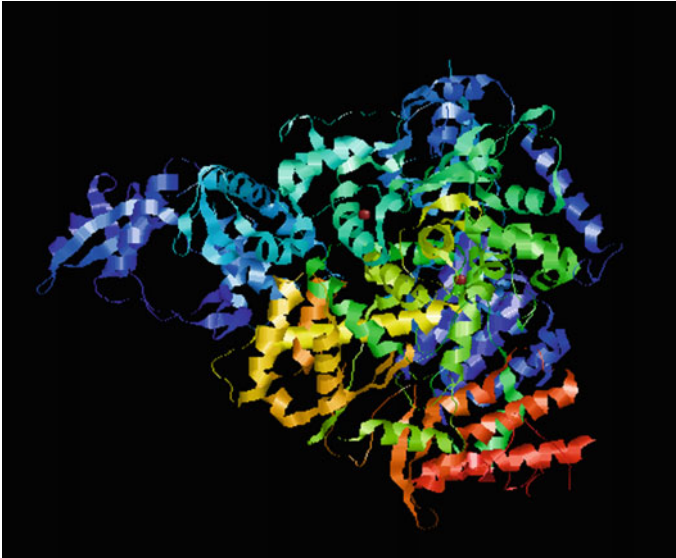


Fig. 4.5 Rasmol visualization of RNA-dependent RNA polymerase protein

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SADAQSFNLRVCGVSAARLTPCGTGTSTDVVYRAFDIYNDKVAGFAKFLKTNCCRFQEKDEDDNLDISYFVVKRH
TFSNYQHEETIYNLLKDCPAVAKHDFFKFRIDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNC
CDDDYFNKKDWYDFVENPDILRVYANLGERVROALLKTVQFCDAMRNAGIVGVLTLDNQDLNGNWYDFGDFIQ
ITPGSGVPVVDSSYSLMPILTLTRALTAESHVDTDLTKPYIKWDLKDYDFTEERLKLFDRIYFKYWDQTYHPNCV
NCLDDRCILHCANFNVLFSVFPPTSFGLPLVRKIFVDGVPFVVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAA

DPAMHAASGNLLDKRITCFVSAALTNNAFQTVKPGNFNKDFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAIS
DYDYRYRNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQVIVNNLDKSAGFPFNKVGKARLYYDSMSYEDQ
DALFAYTKRNVIPITITQMLNKYAISAKNRARTVAGVSICTMTNRQFHQKLLKSIAATRGATVVGTSKFGYGGWHN
MLKTVYSDVENPHLMGWYDYPKCDRAMPNMLRIMASLVLARKHHTCCSLSHRFYRLANECAQVLSMVMCGGSL
YVKPGGTSSGDATTAYANSVFNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVDTDFVNEFYA
YLRKHFSMMILSDDAVVCFNSTYASQGLVASIKNFKSVLYYQNNVFMSEAKCWETDLDLTKGPHEFCSQHTMLVK
QGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHPNQEYADVHFLYLQYIRKLDHDELTG
HMLDMYSVMLTNDNTSRYWEPEFYEAMYTPHTVLQHIIIIIIIIIIIIII
    
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The region that is matching between the two sequences is 14–910 of the selected gene region on the pdb structure (Fig. 4.6).