

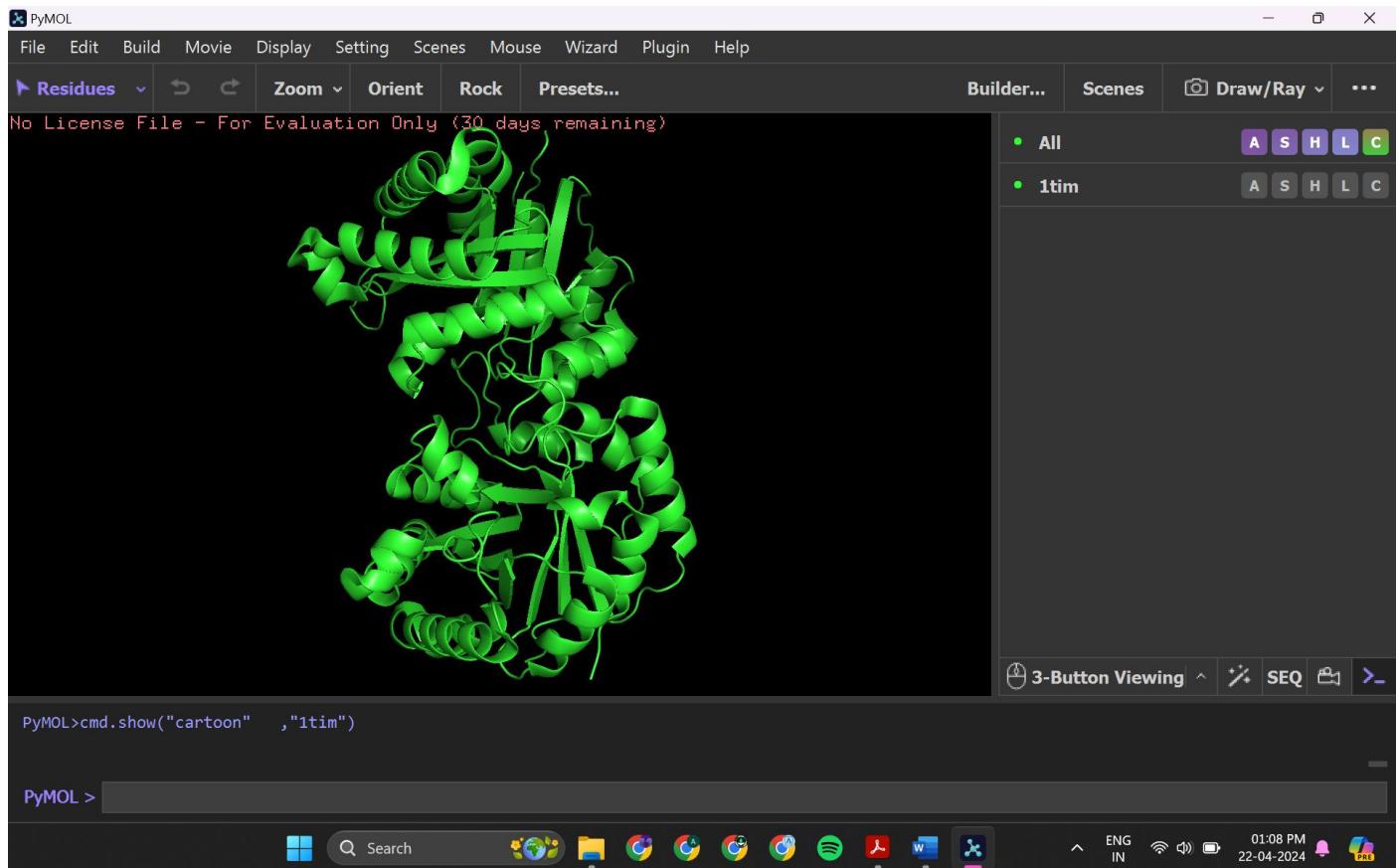
Practical 12

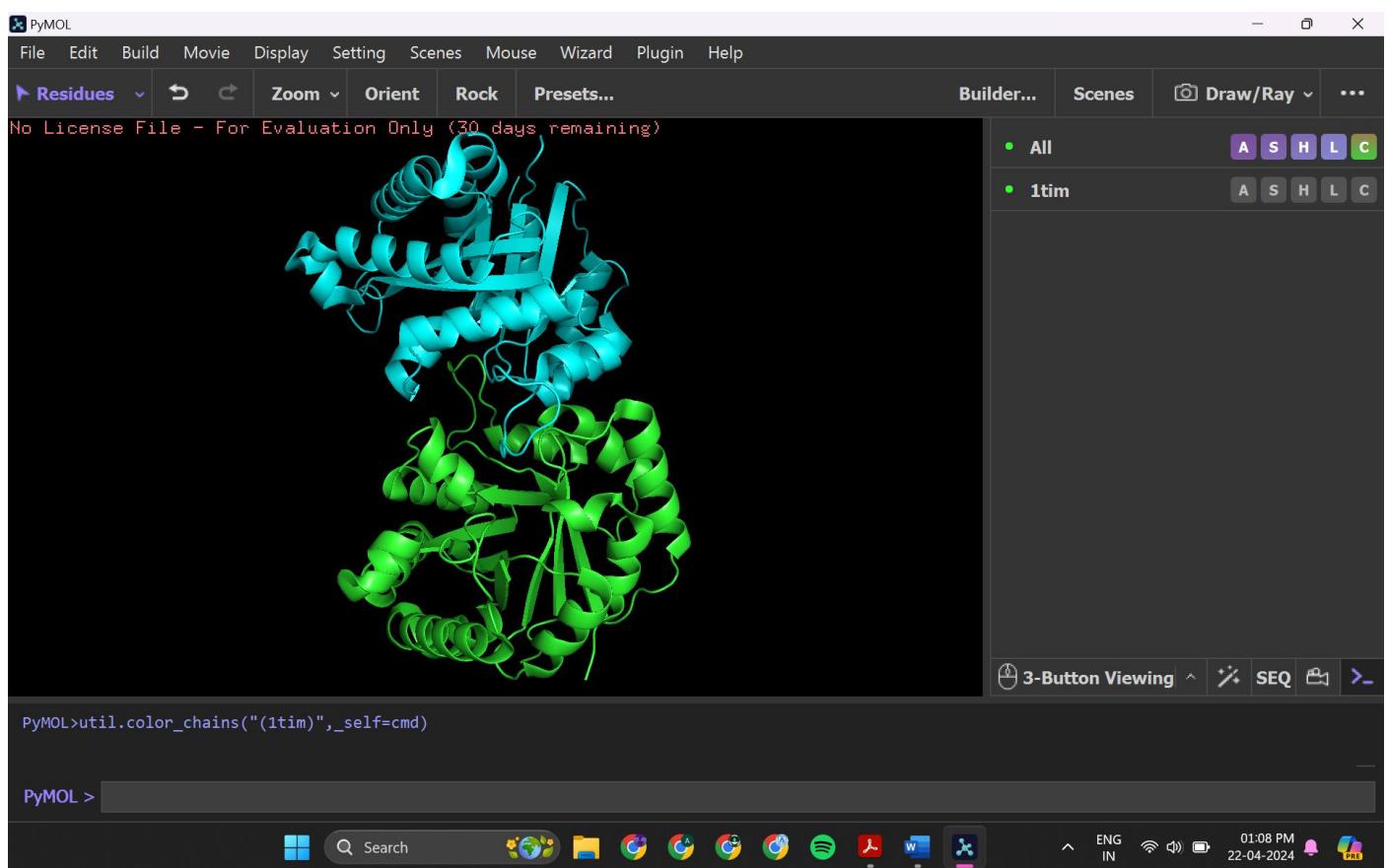
1

A screenshot of a dark-themed file explorer window. The address bar shows the path: C:\Downloads. The file list is sorted by Date modified. The visible files are:

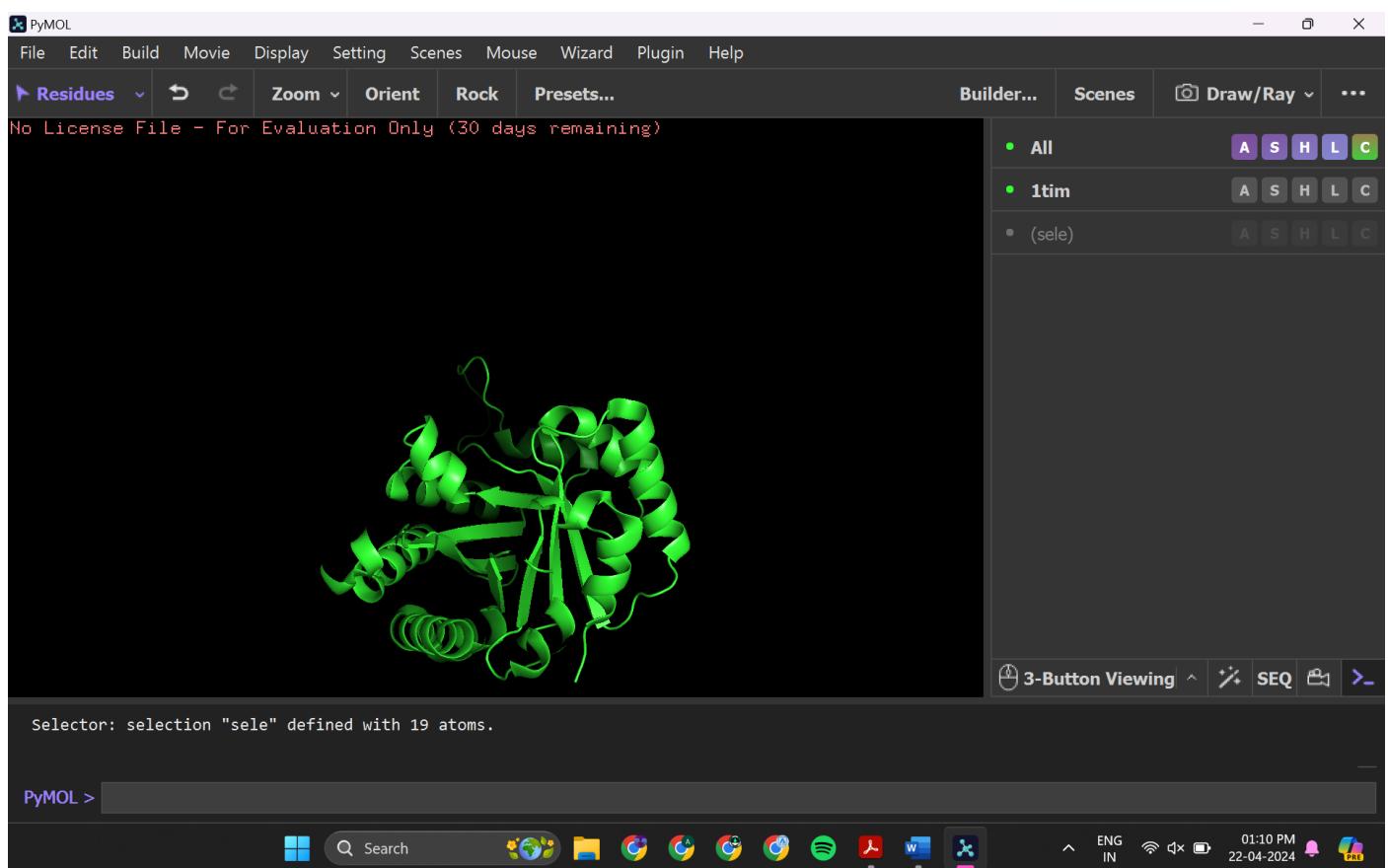
Name	Date modified	Type	Size
▼ Today			
1tim.pdb	22-04-2024 01:03 PM	PDB File	344 KB
4lyz.pdb	22-04-2024 01:03 PM	PDB File	131 KB
1alc.pdb	22-04-2024 01:03 PM	PDB File	133 KB
PyMOL-3.0.2-Windows-x86_64	22-04-2024 01:02 PM	Application	3,98,087 KB

2

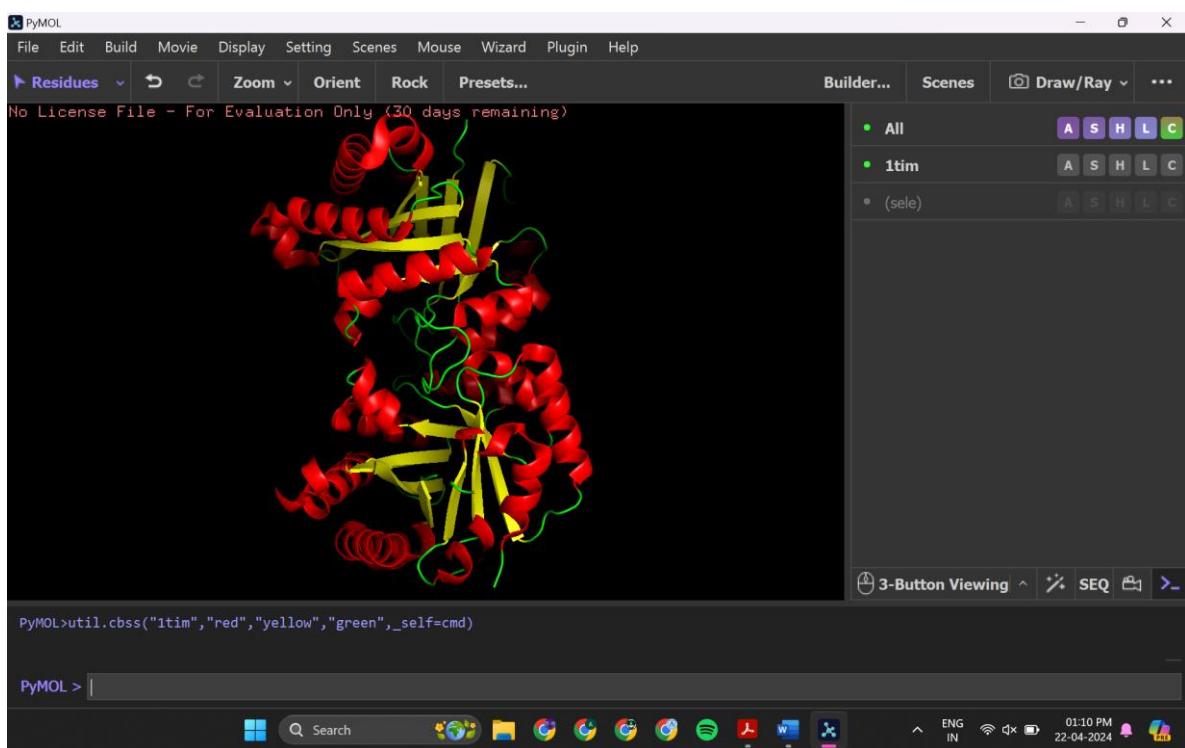




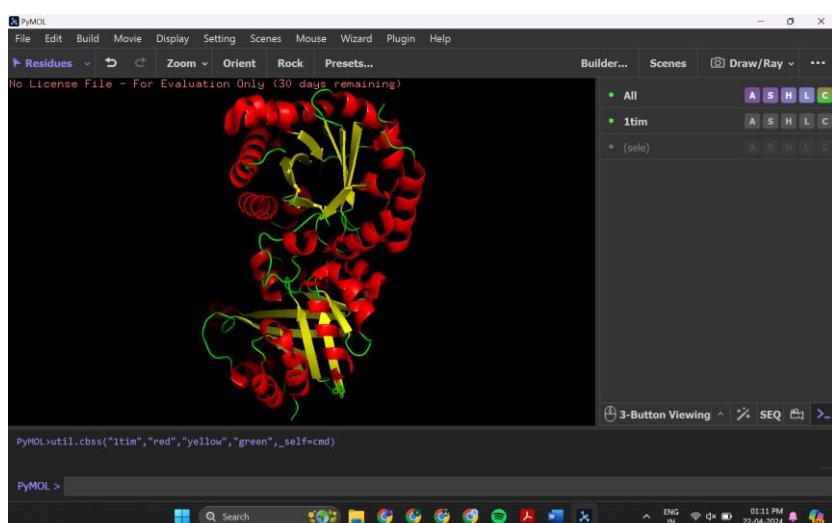
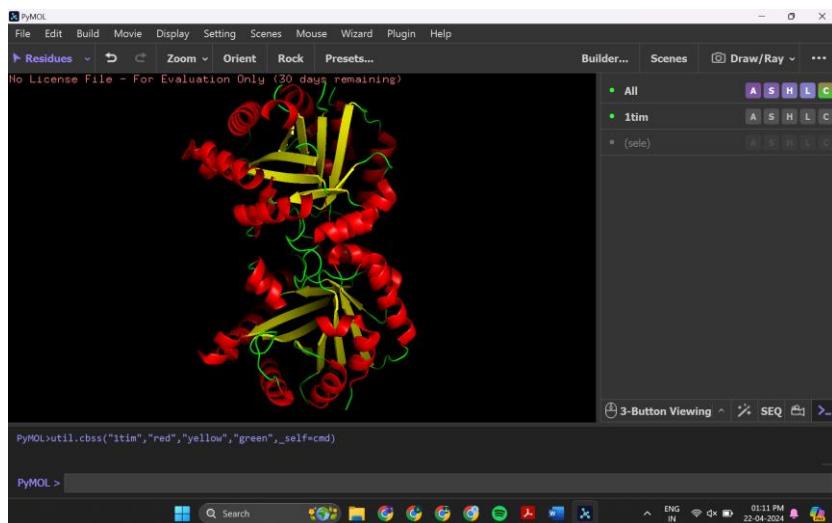
There are 2 chains in 1TIM.



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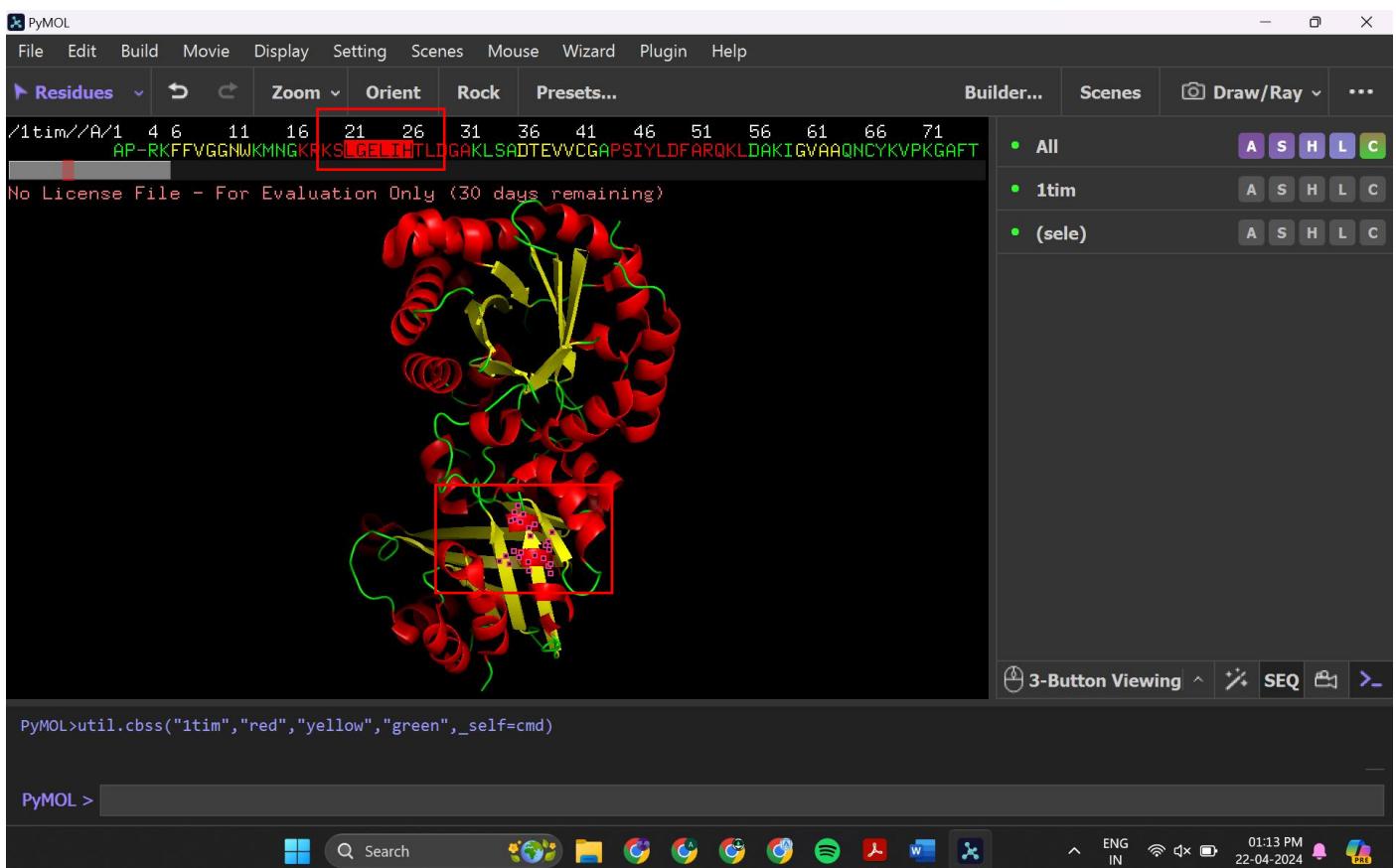
6



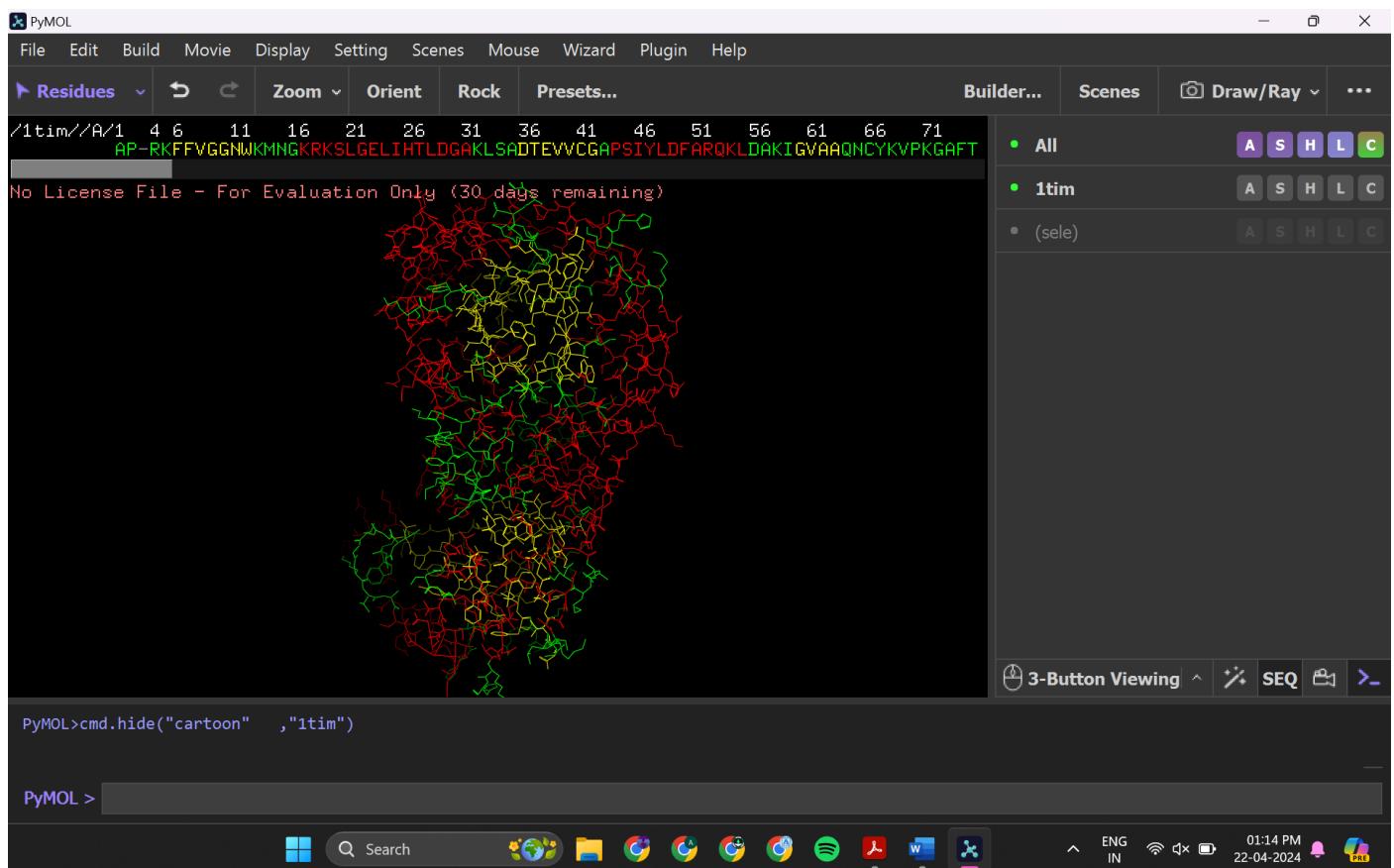
7



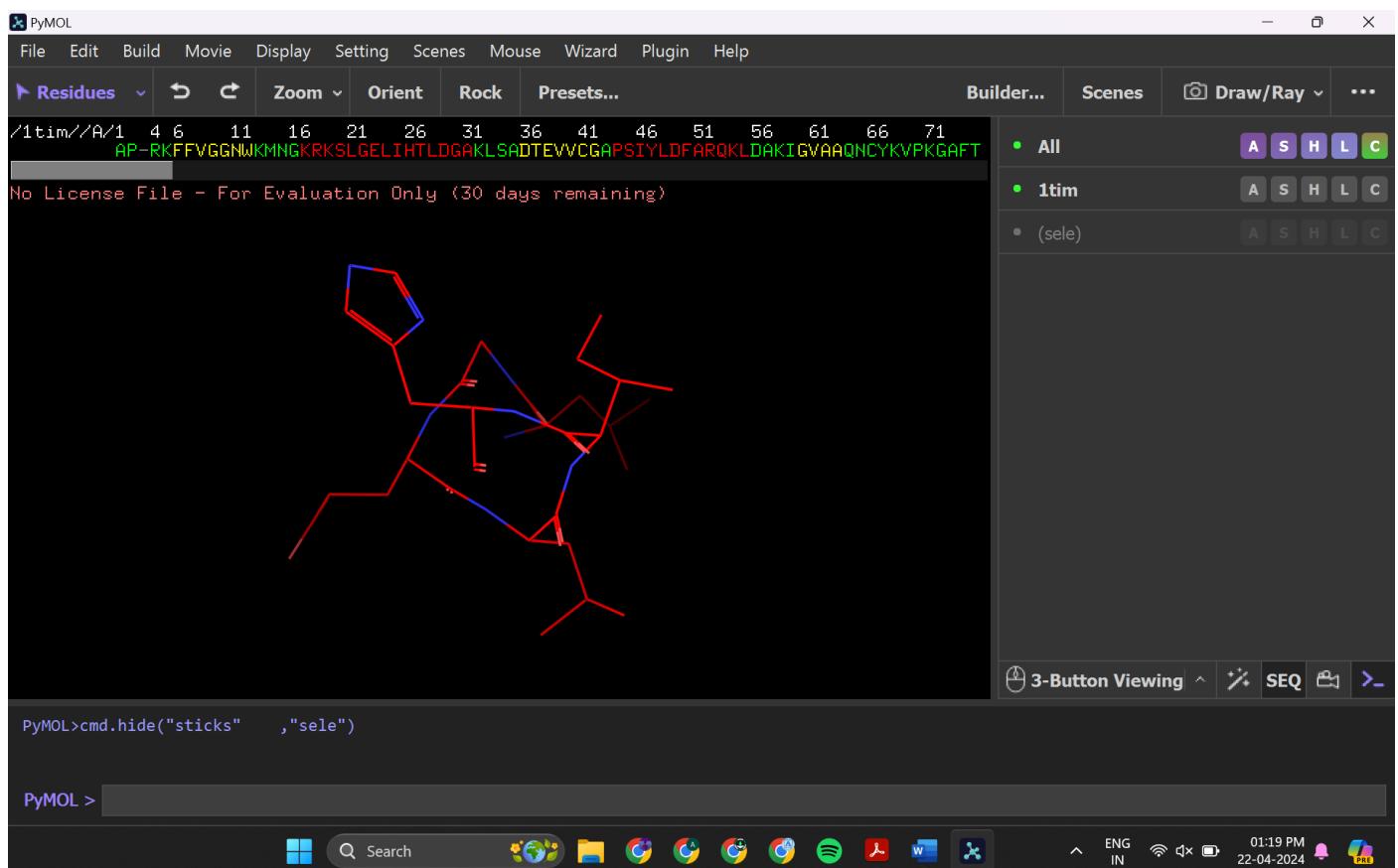
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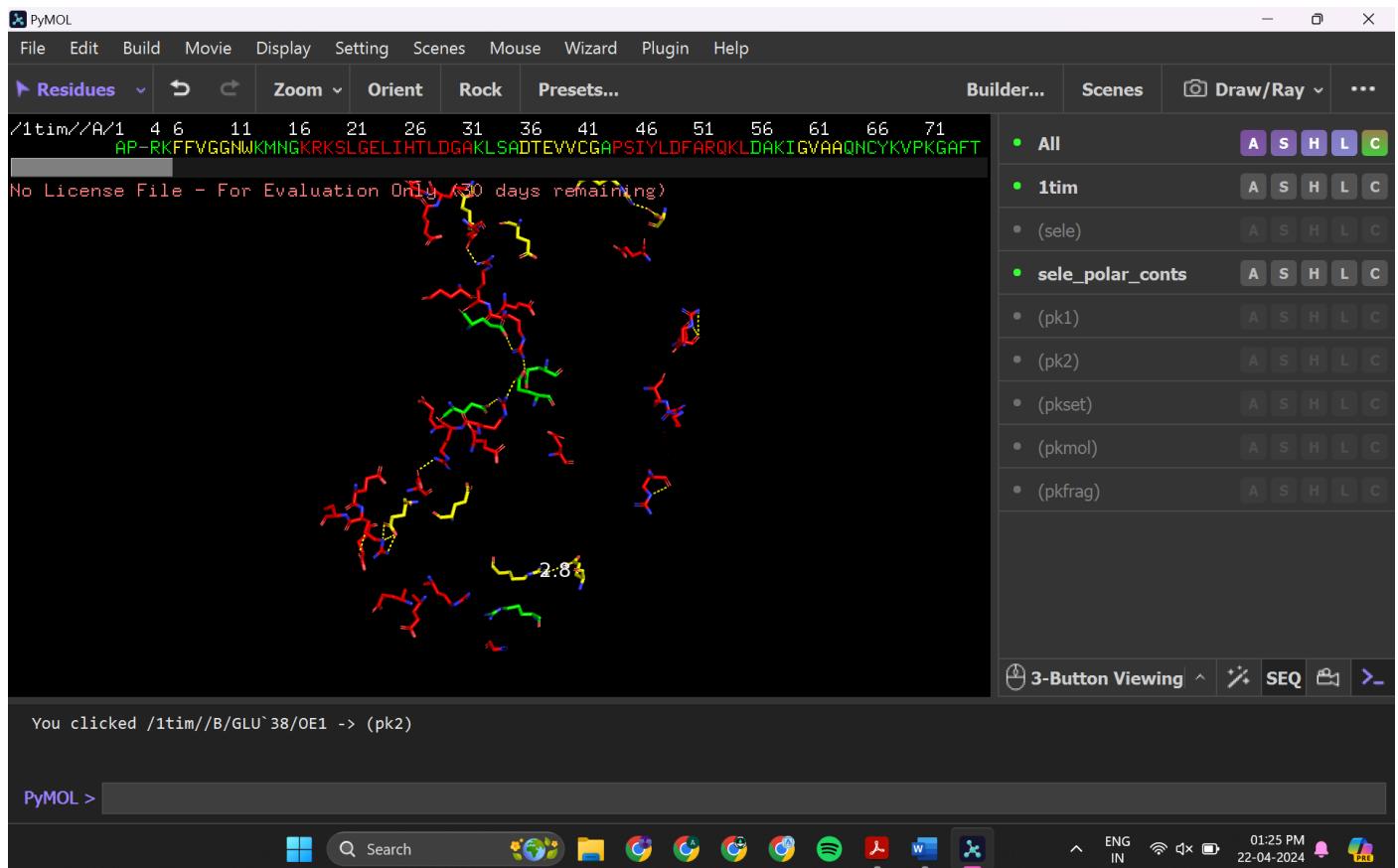


9

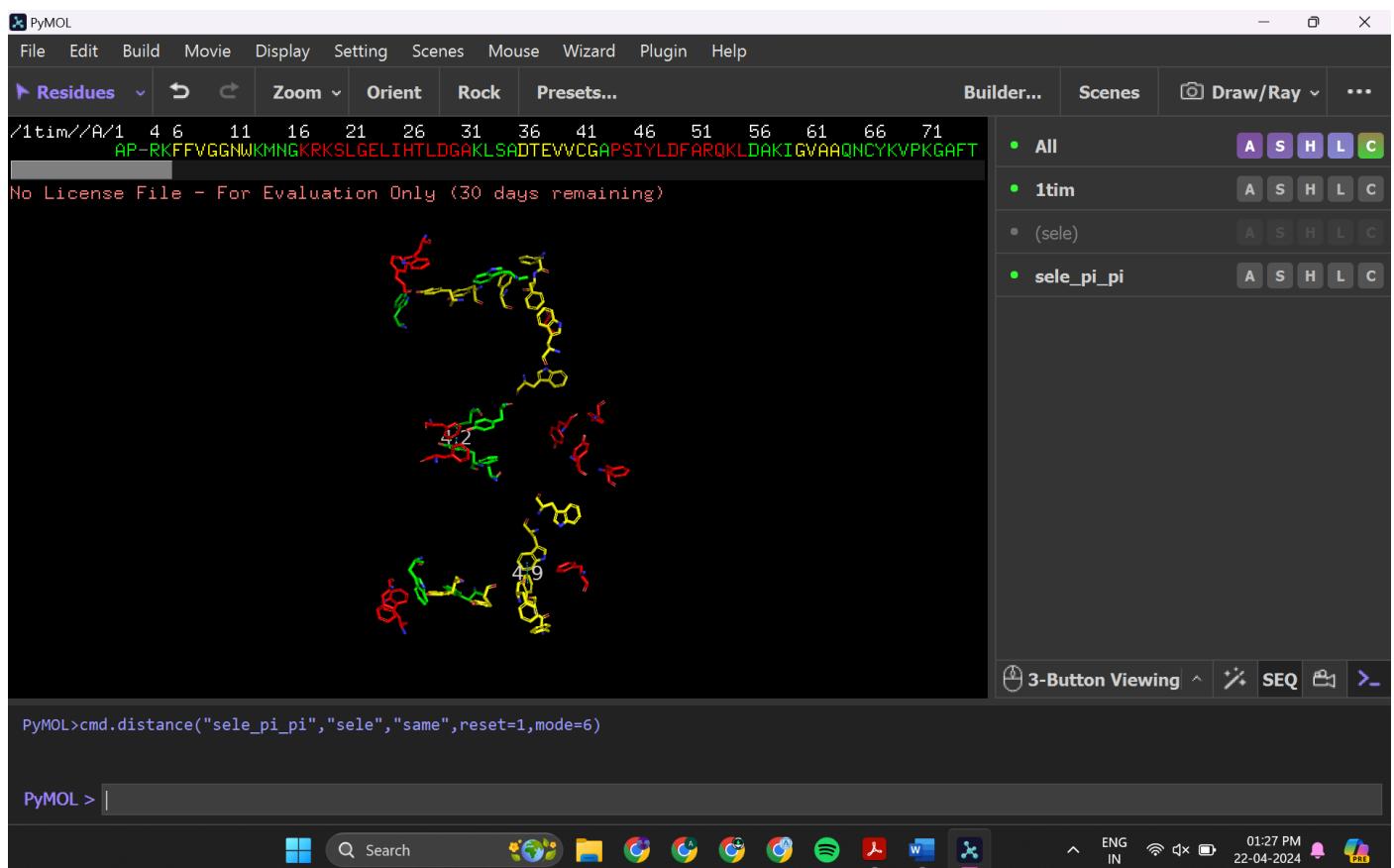


10

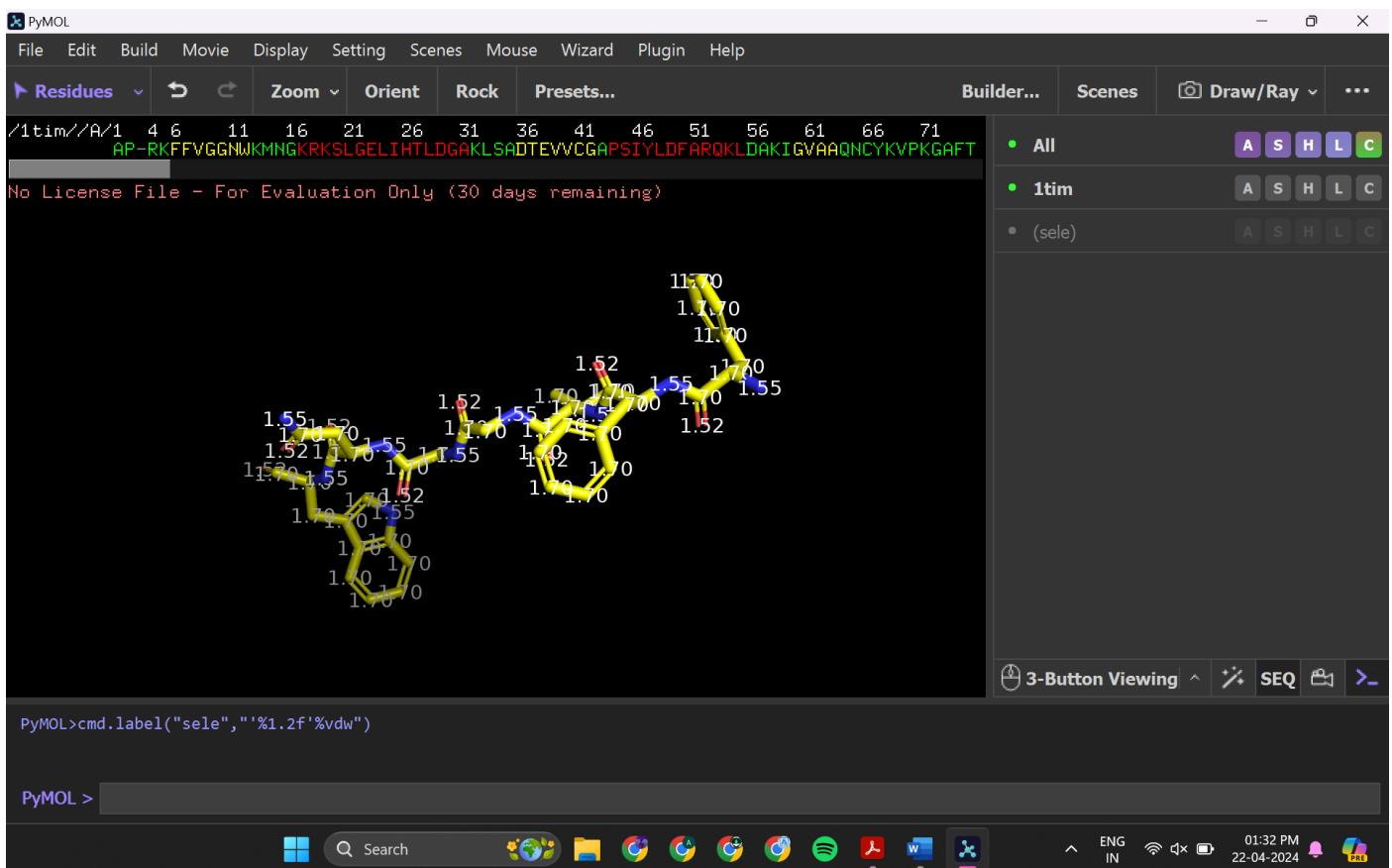




Salt bridge found between side chains Arg205 and Glu38.



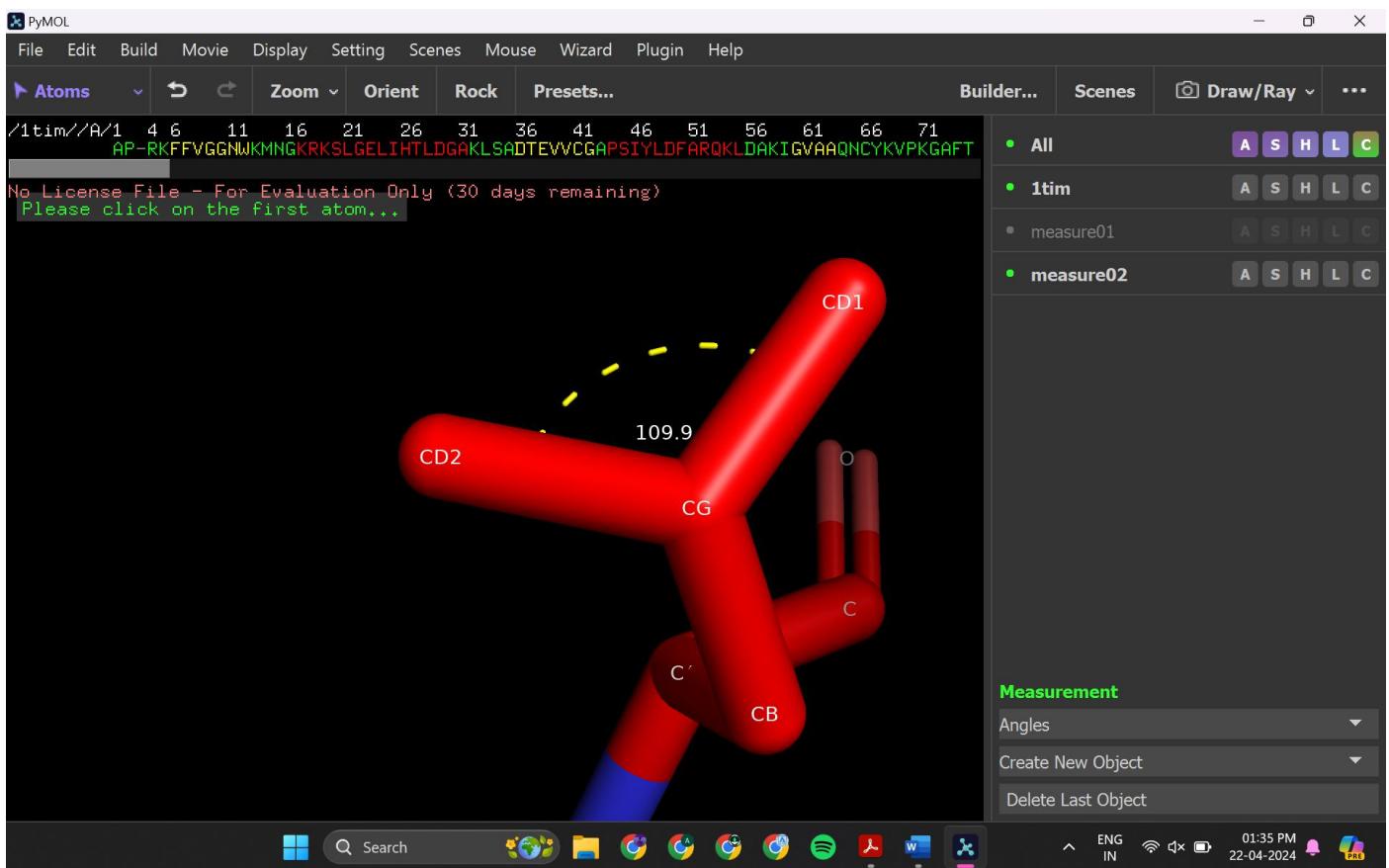
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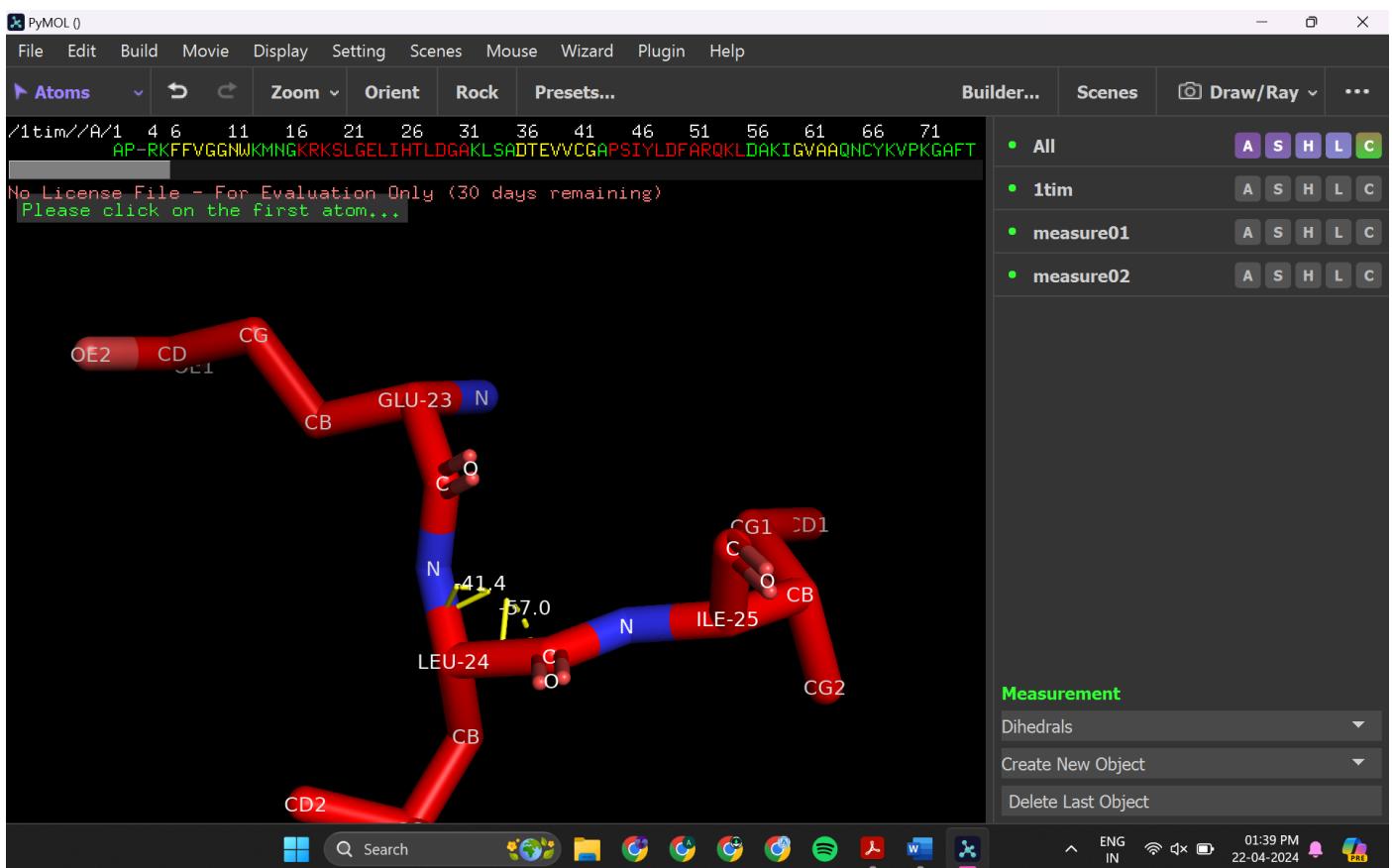
14



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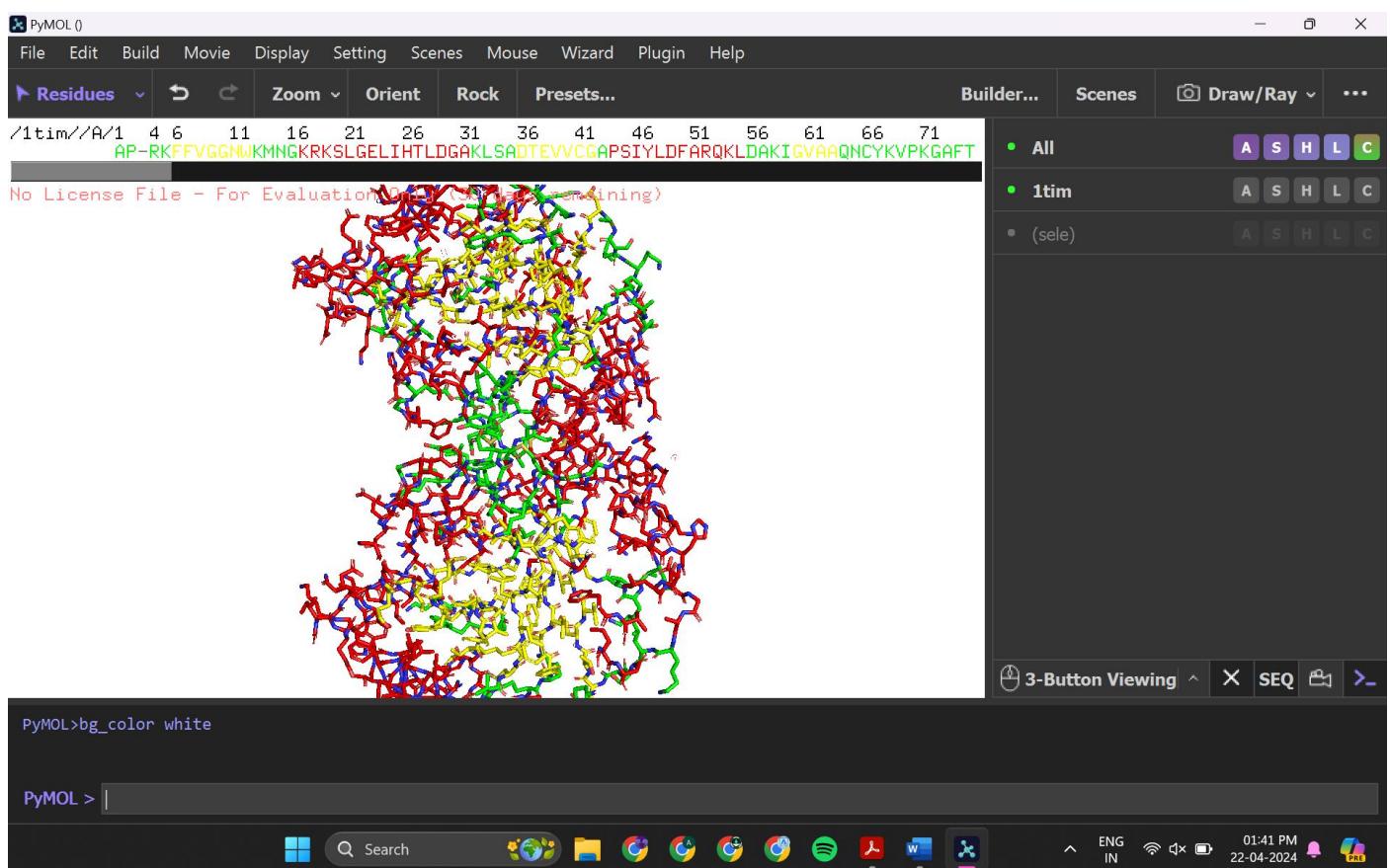


16

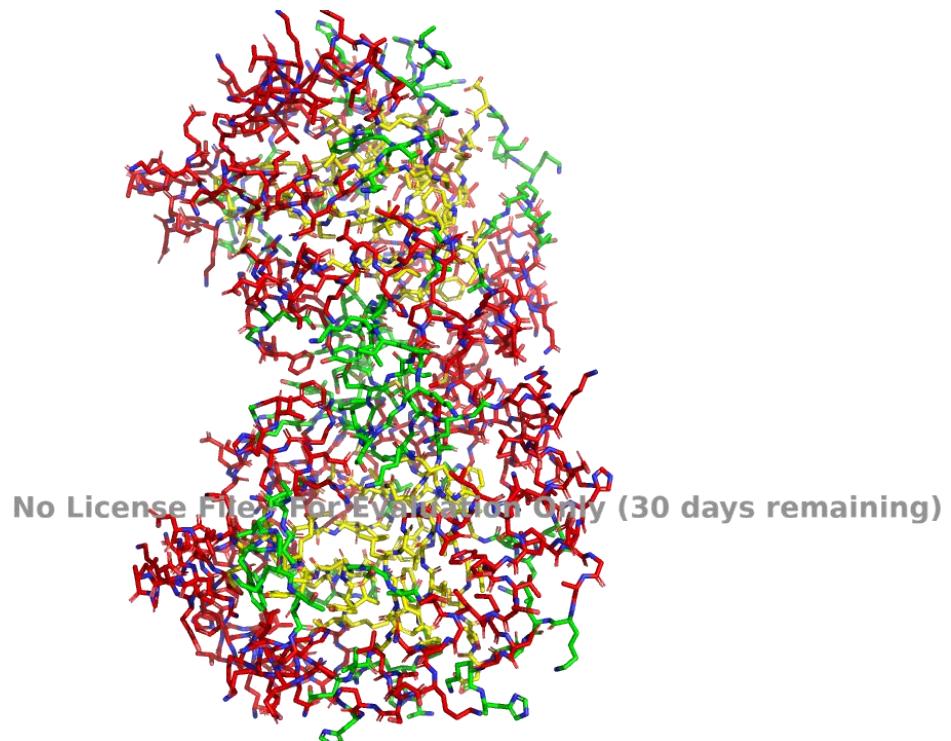


$$\phi = -41.4, \psi = -57.0$$

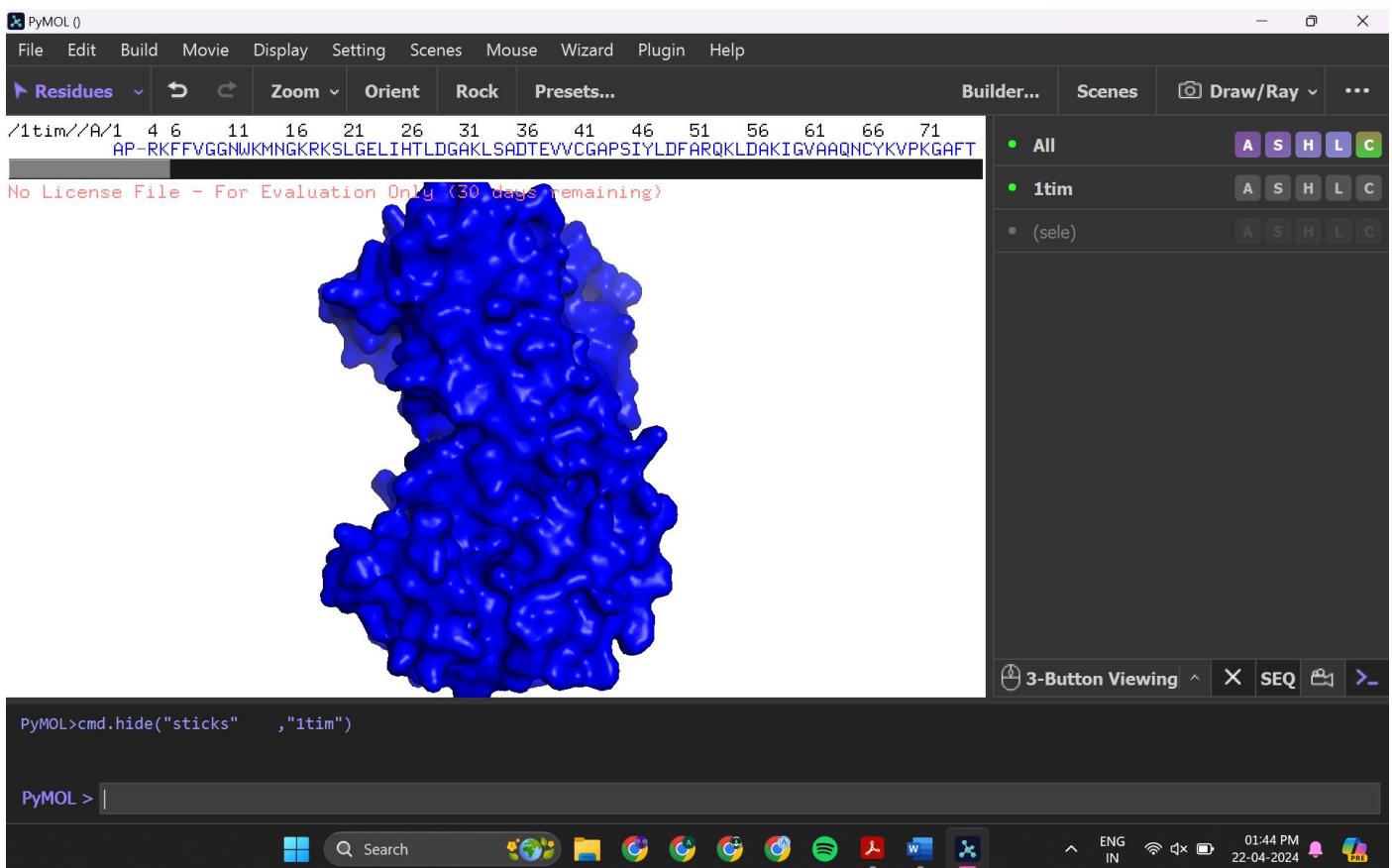
17



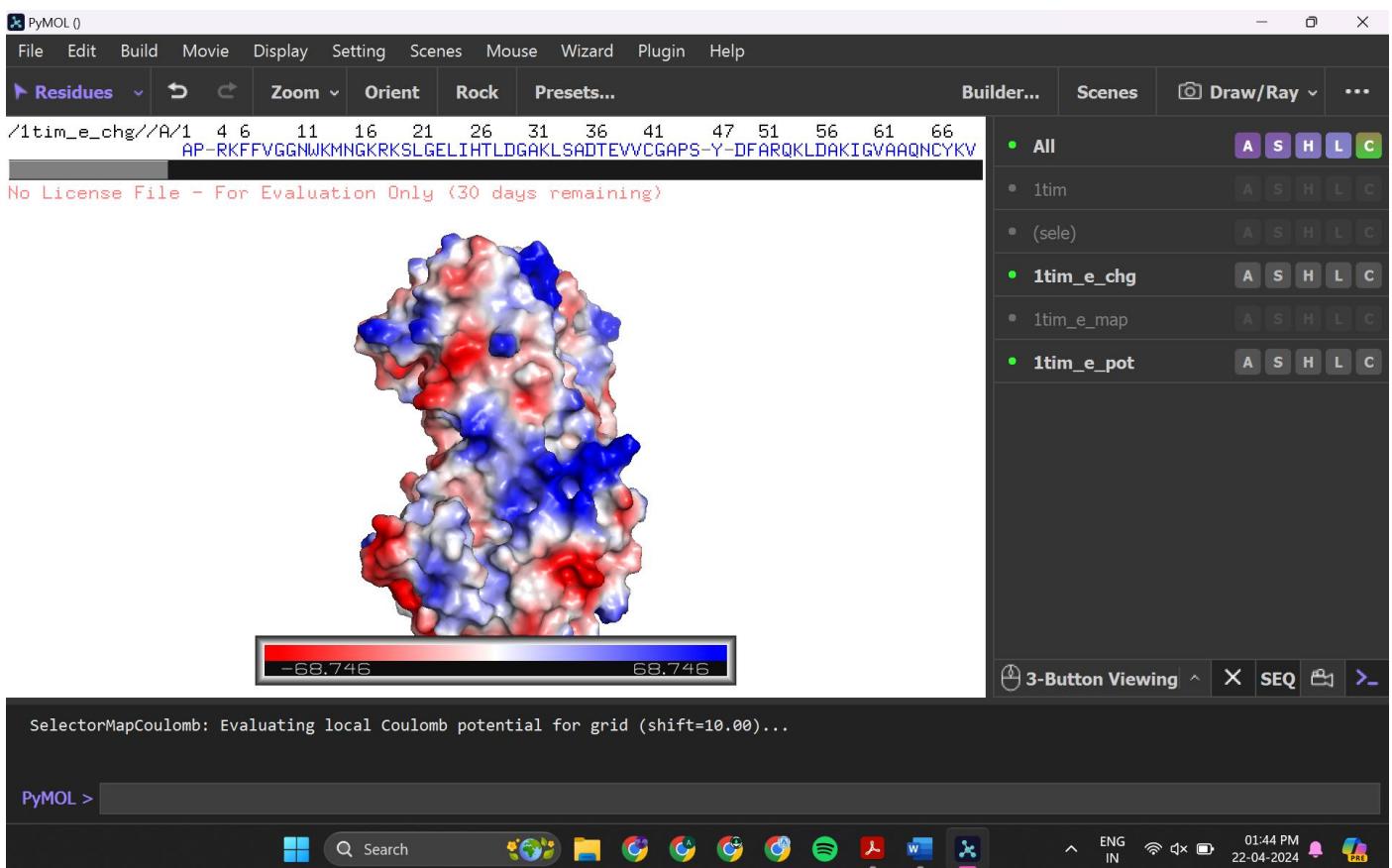
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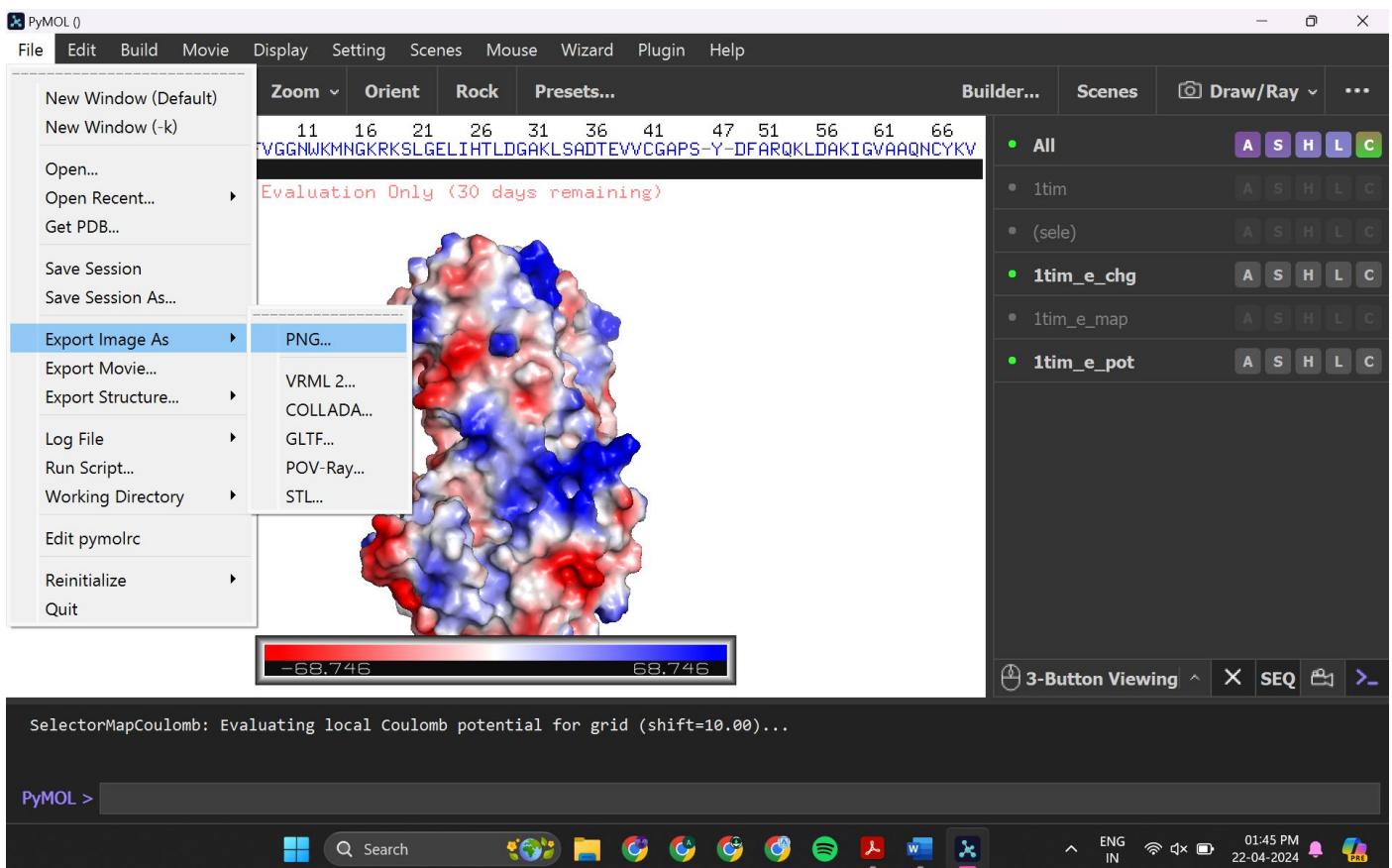


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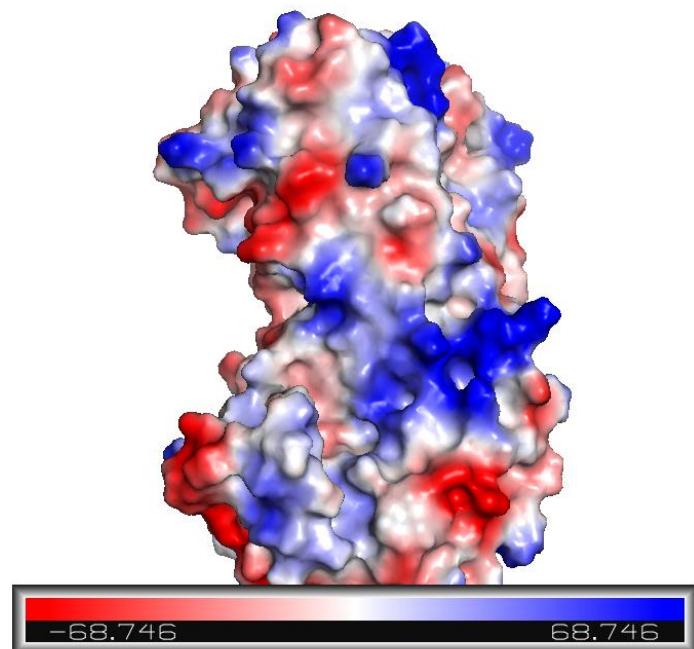


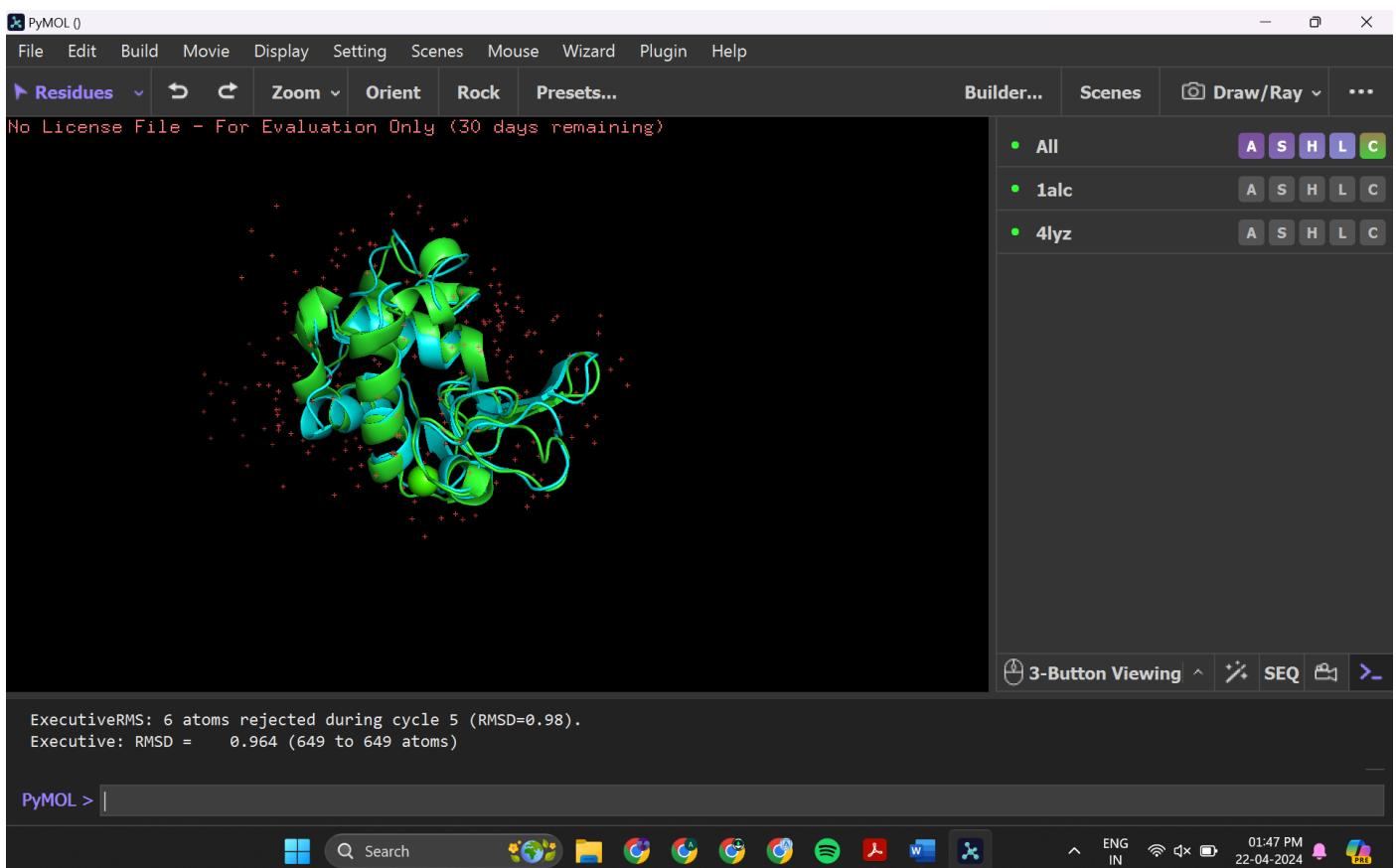
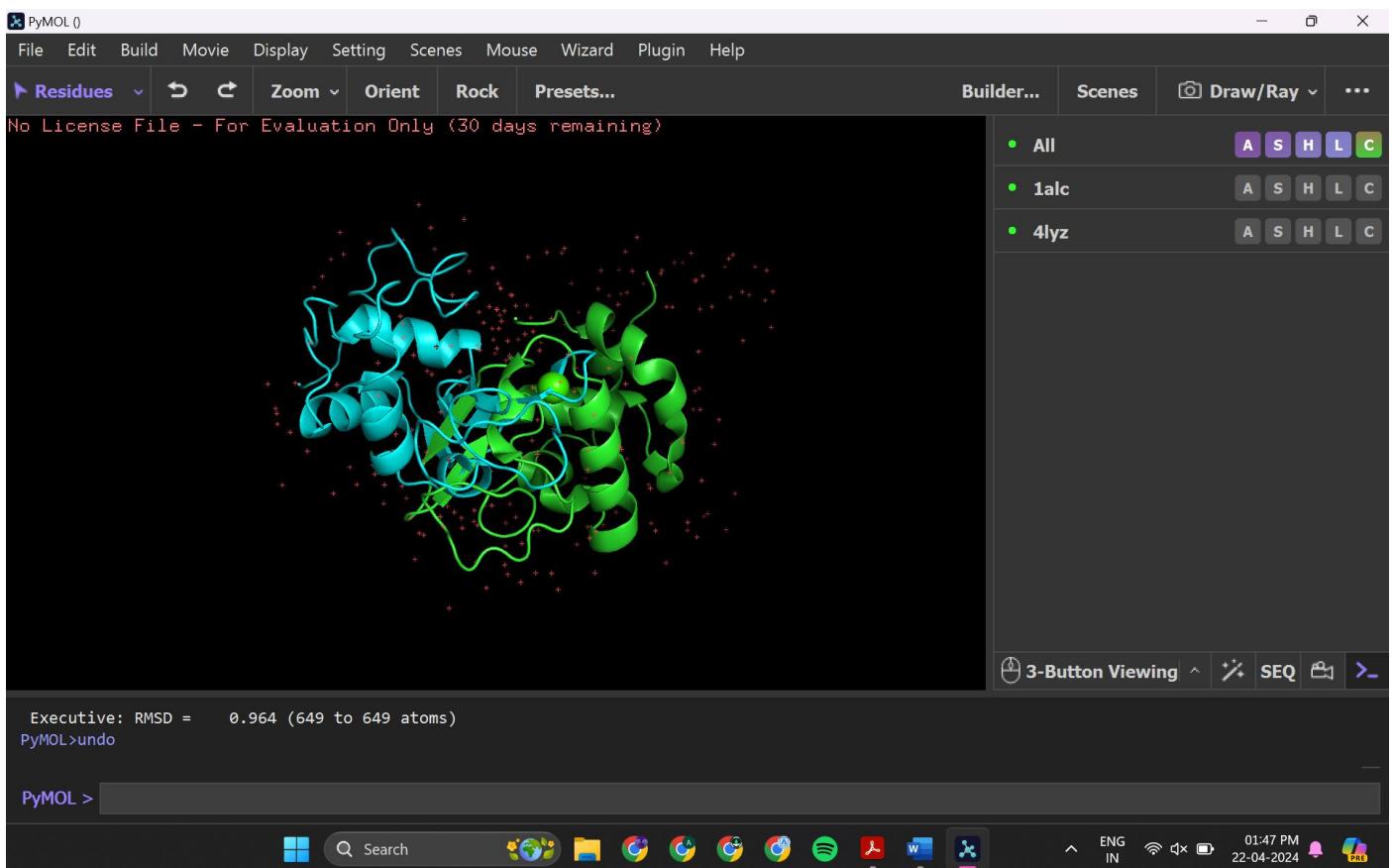
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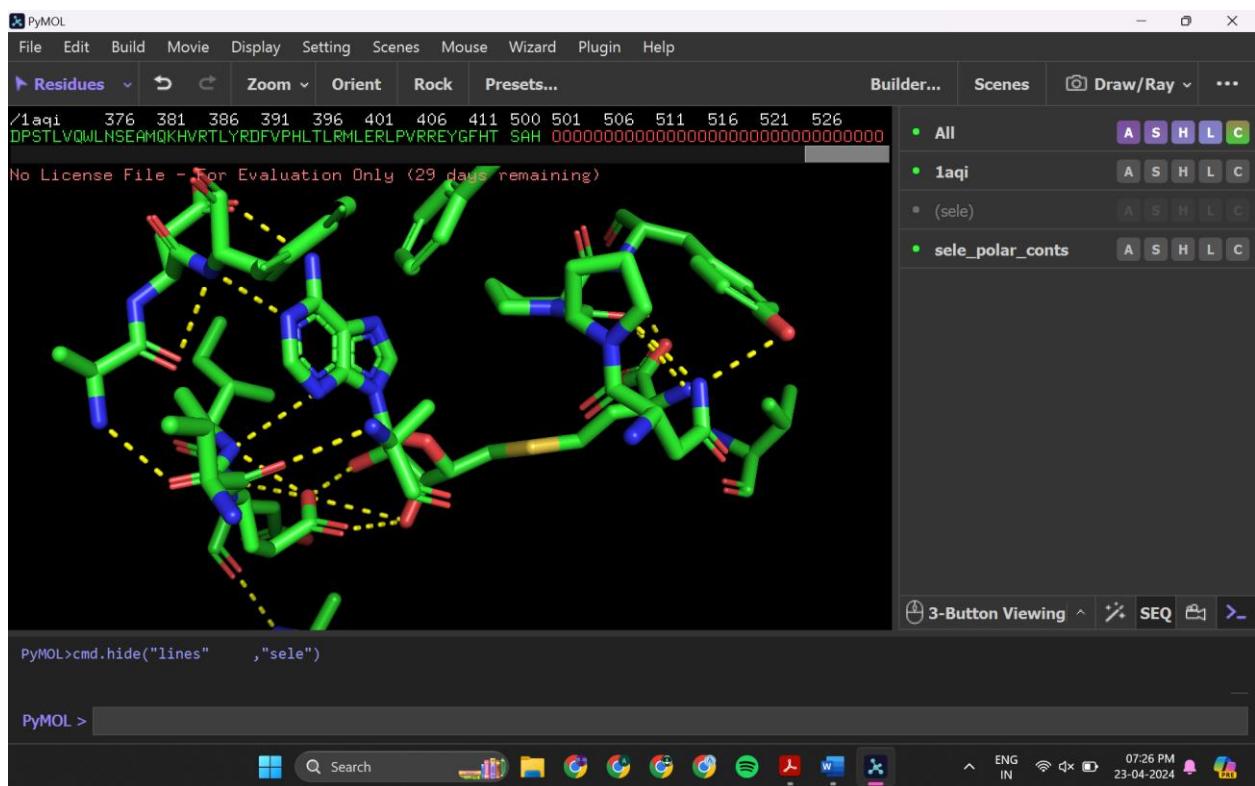
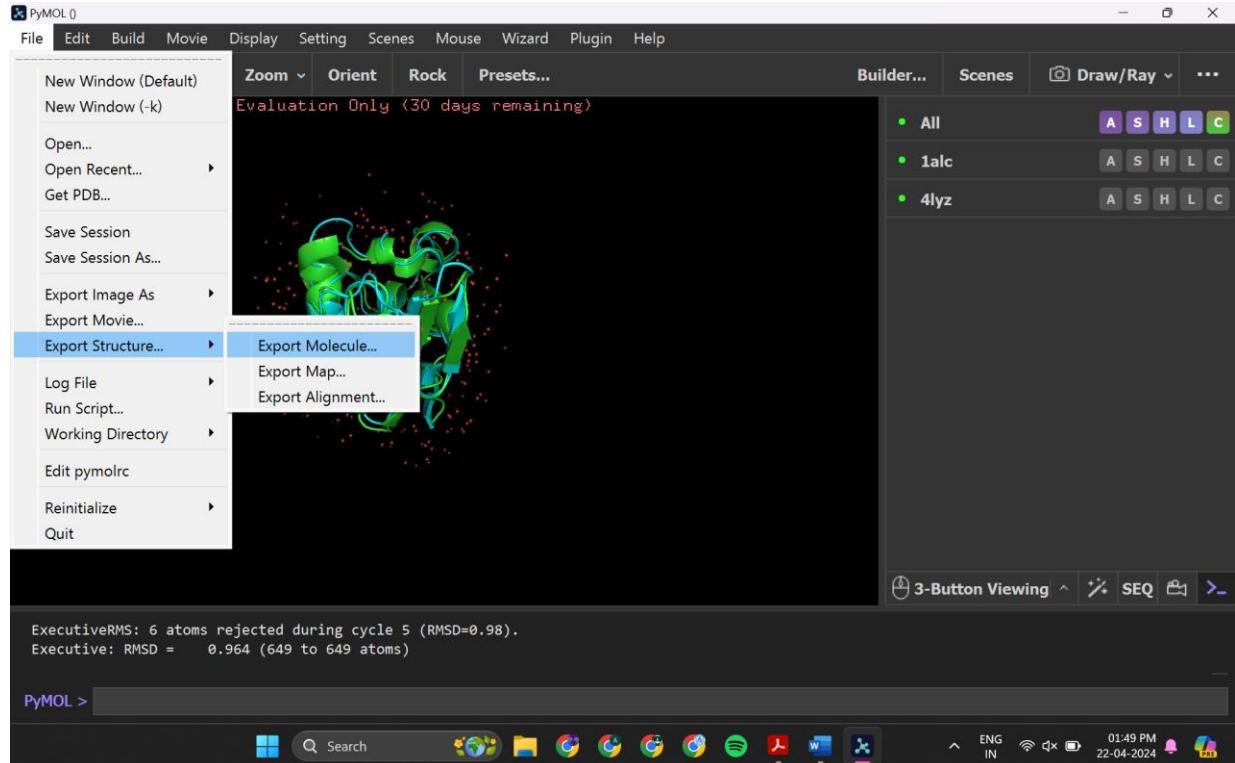


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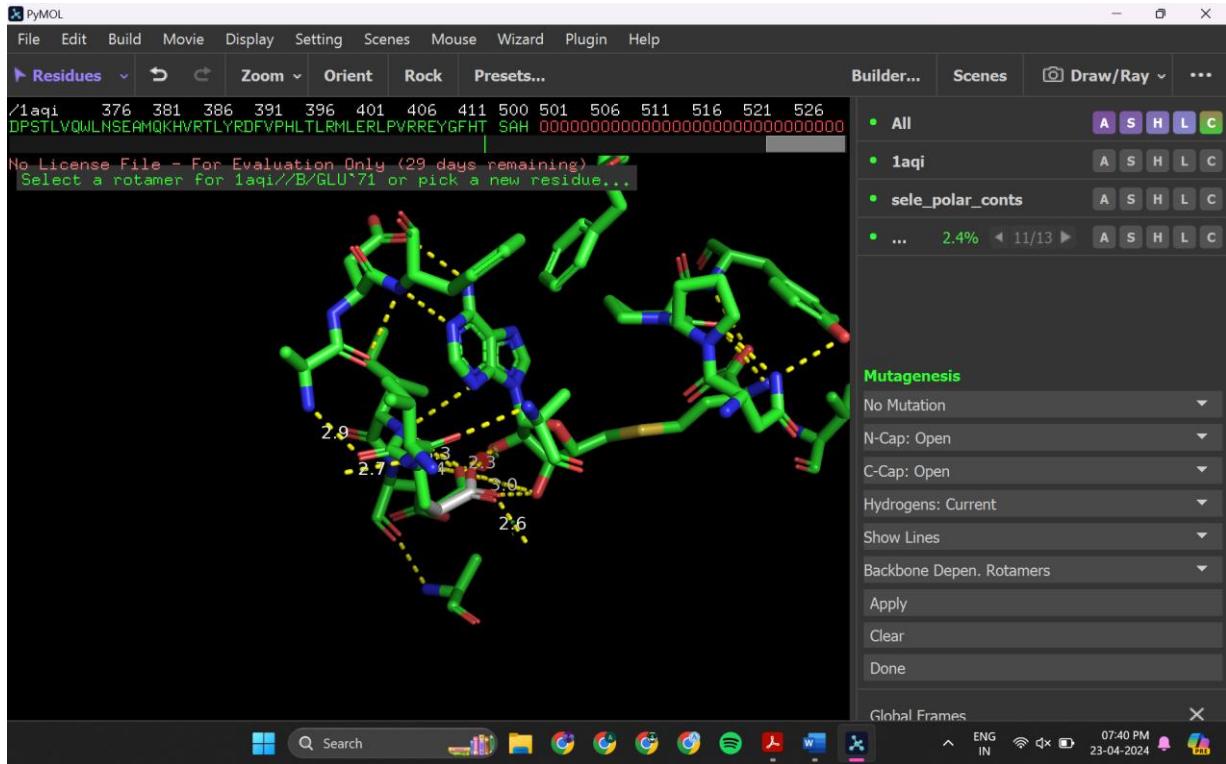




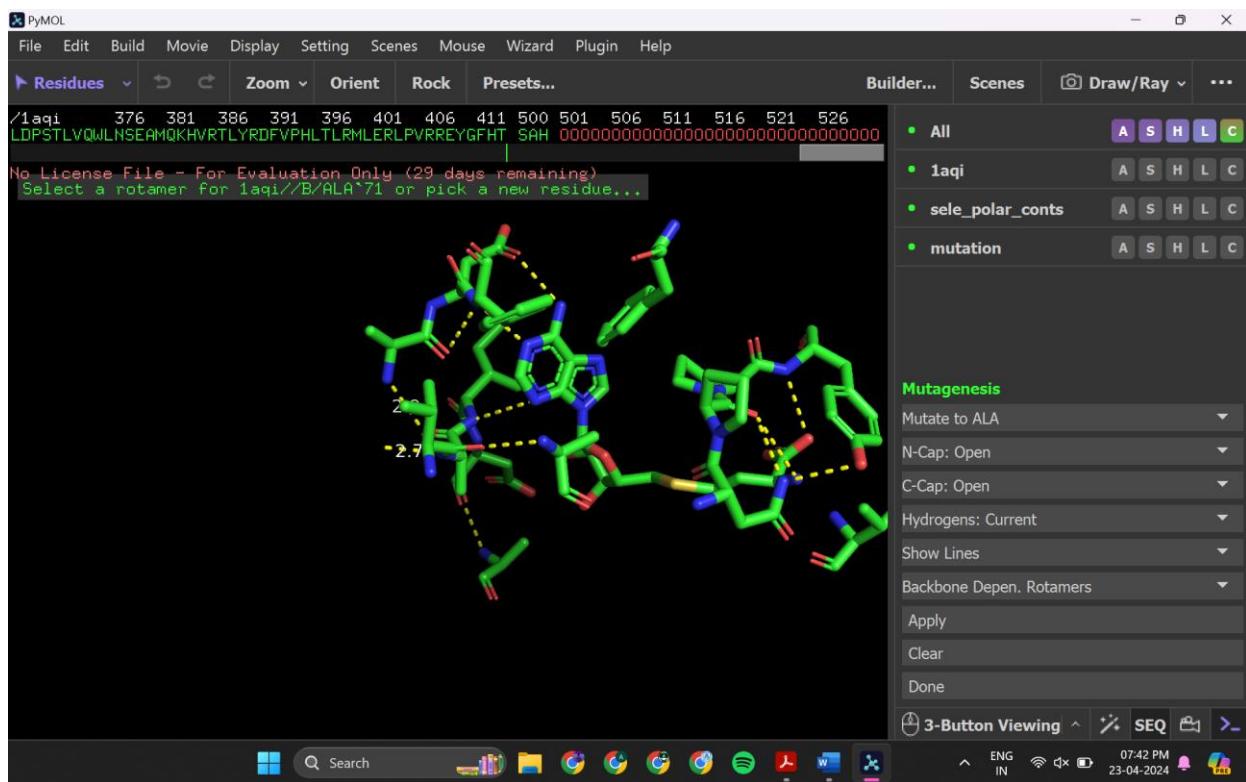
From the previous image, we can see that RMSD is 0.964 Å.



### Before the Glu71Ala mutation



### After the Glu71Ala mutation



The sidechain polar interactions no longer exist after Glu71Ala.