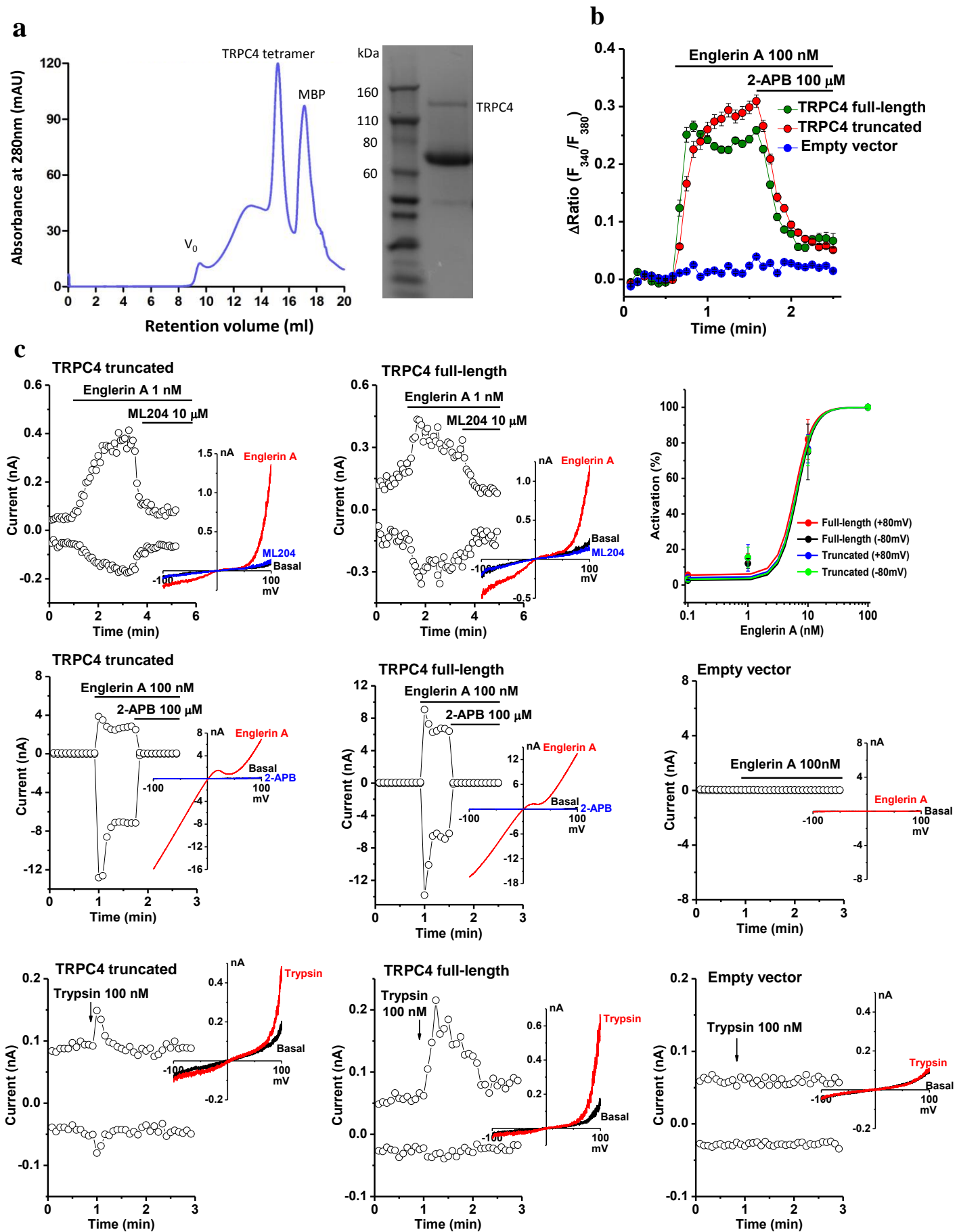
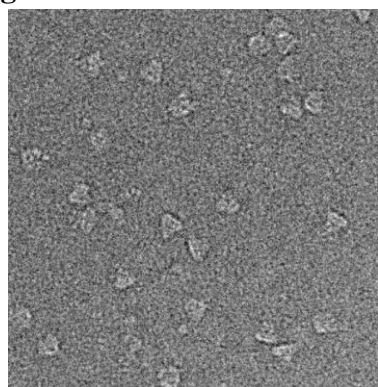


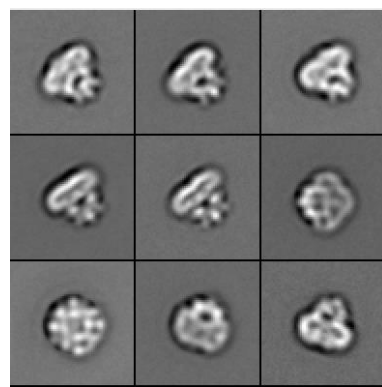
ED Figure 1.



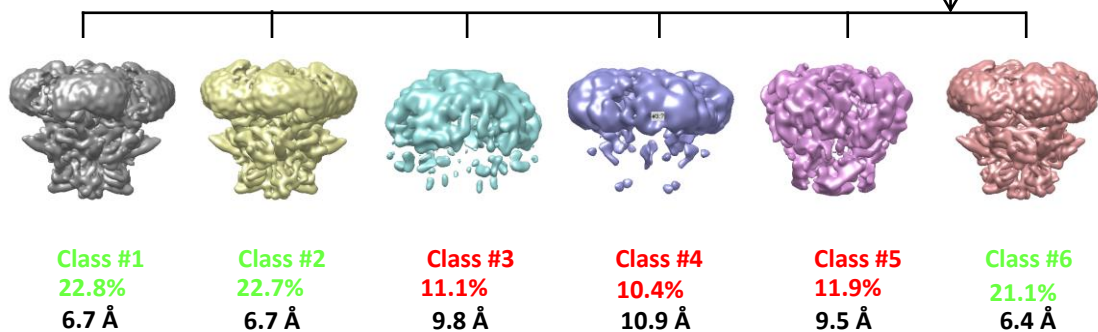
ED Figure 2.**a**

6,661 movies from two datasets,
total 381,165 particles picked

Tree 2D classification, 31,738
particles eliminated

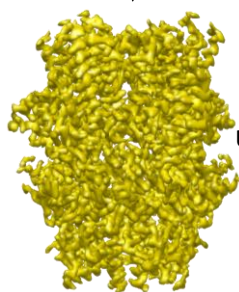


349,427 particles subject
to Relion 3D classification



Relion 3D
refinement

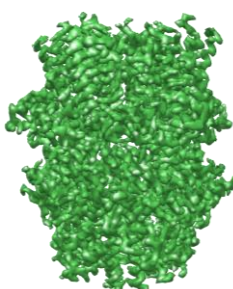
232,858 "best" particles from Classes 1, 2 & 6



3.42 Å

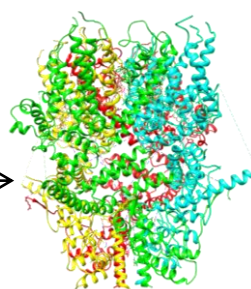
Use sub-frame 1-14

Relion 3D
refinement

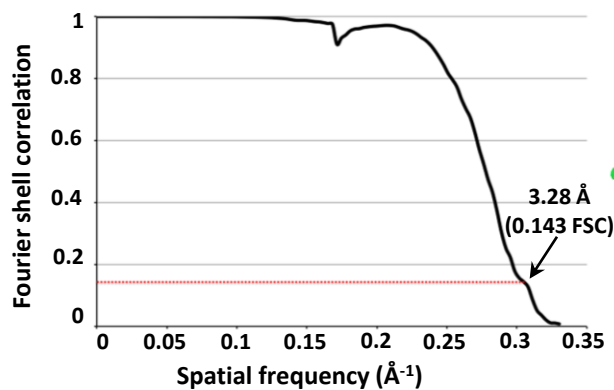
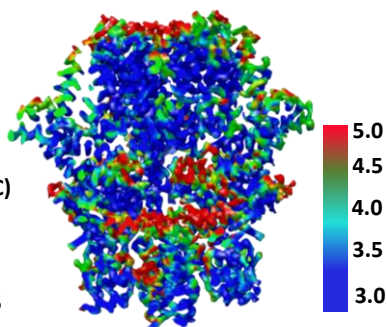
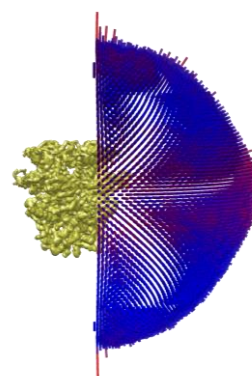


3.28 Å

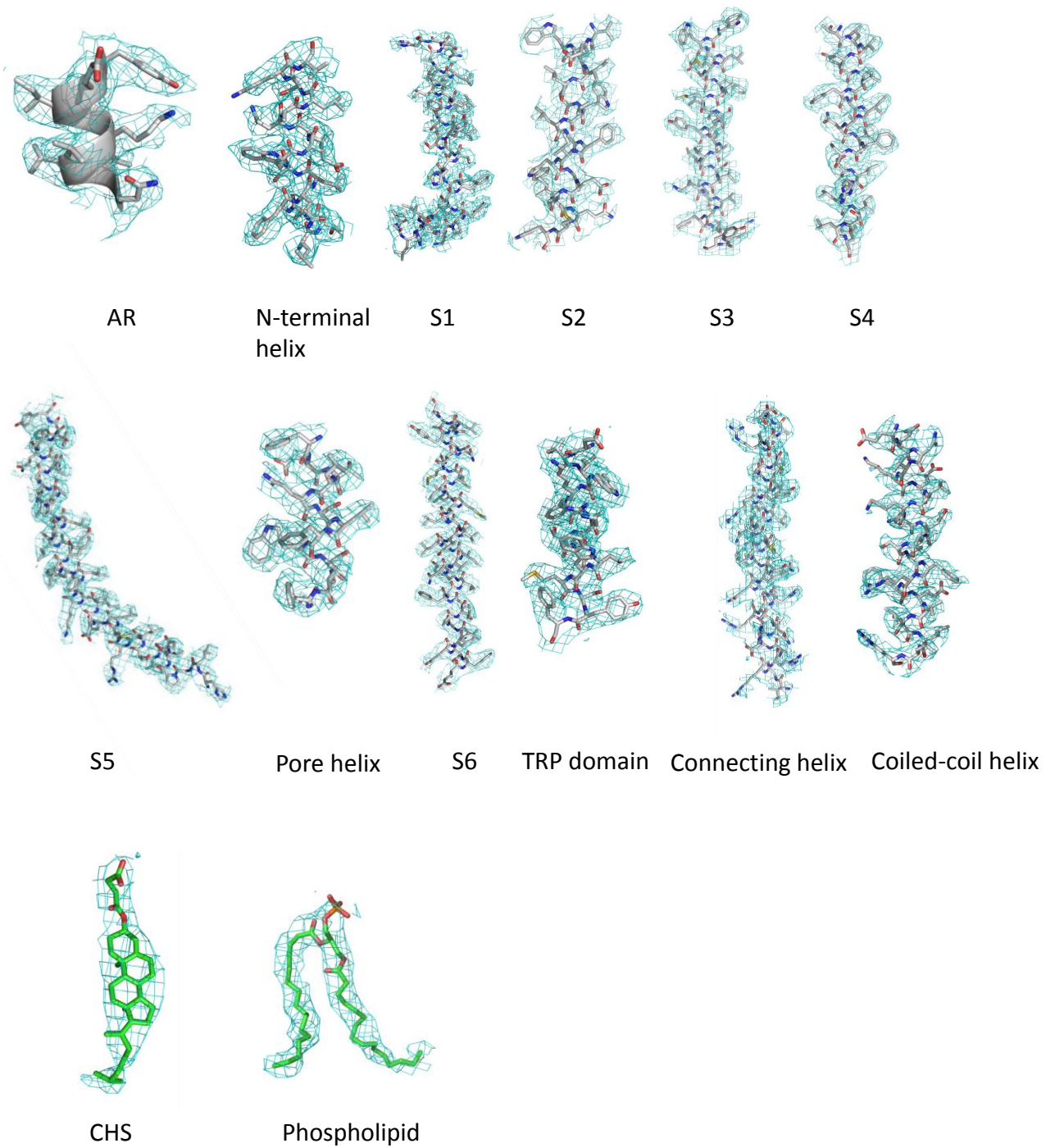
Model building



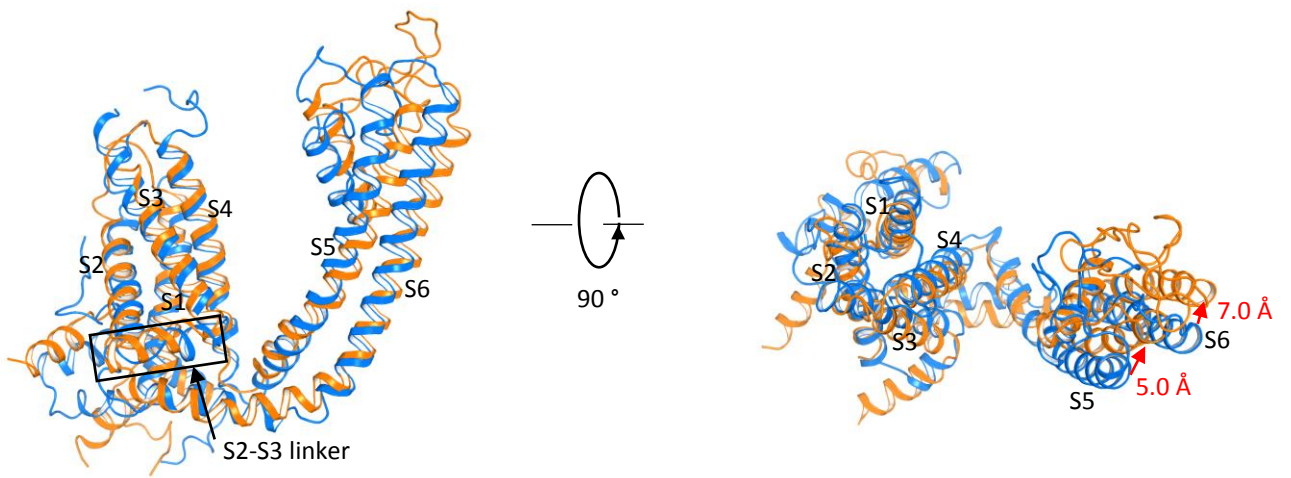
Atomic model

b**c****d**

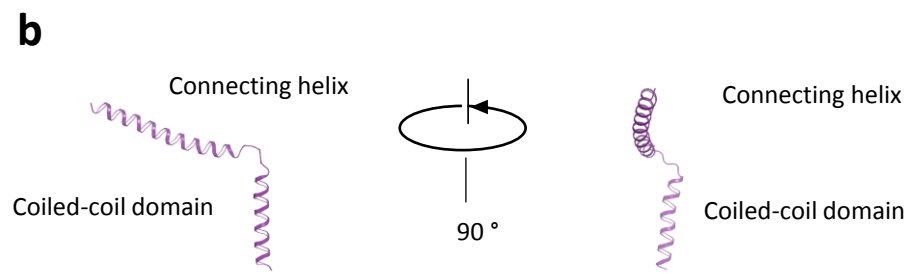
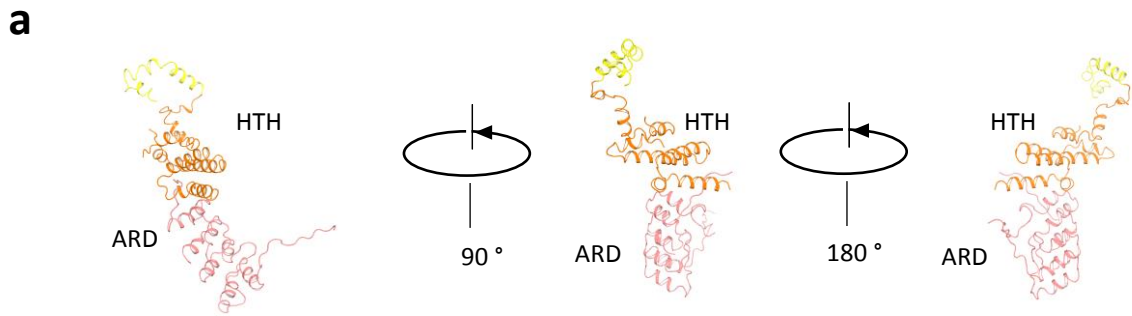
ED Figure 3.



ED Figure 4.

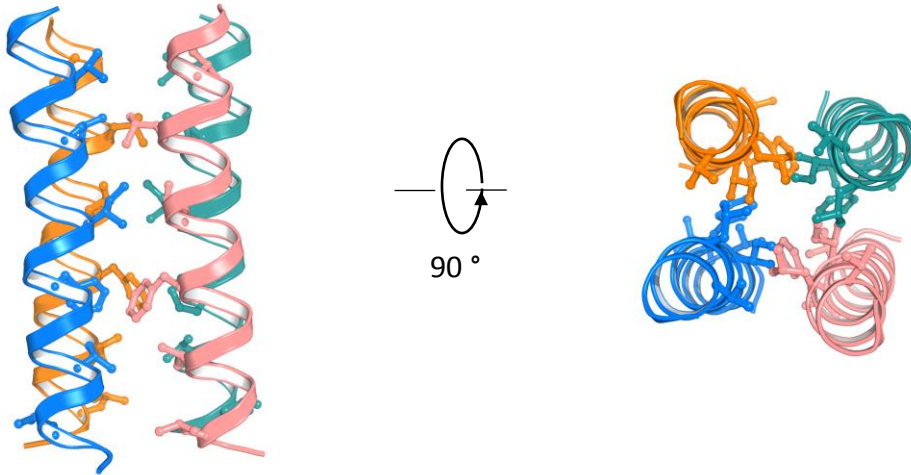


ED Figure 5.



ED Figure 6.

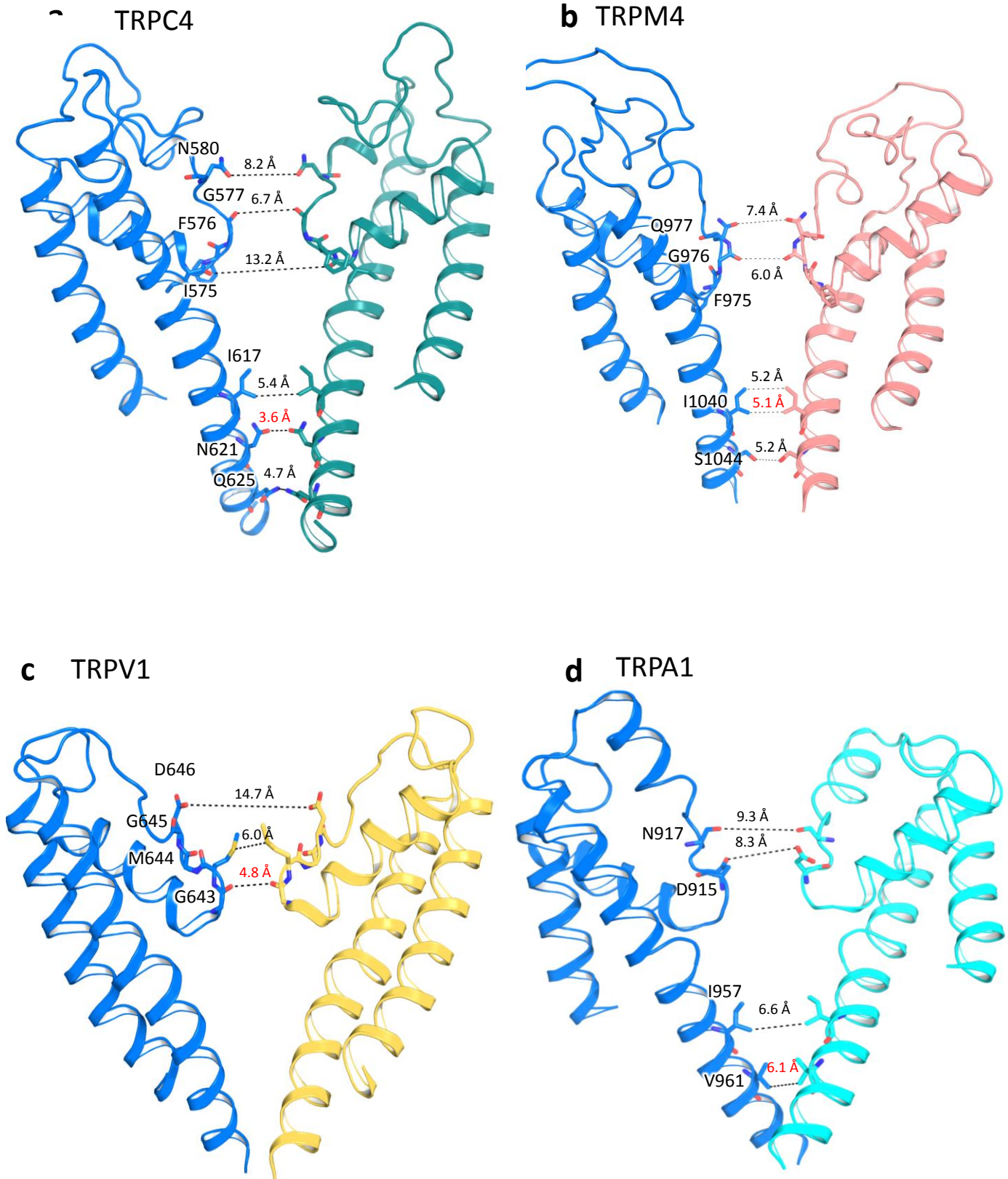
a



b

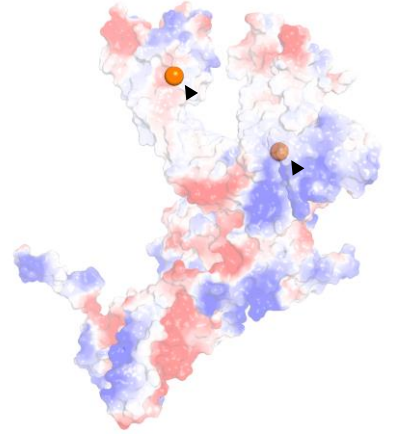
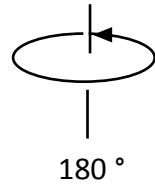
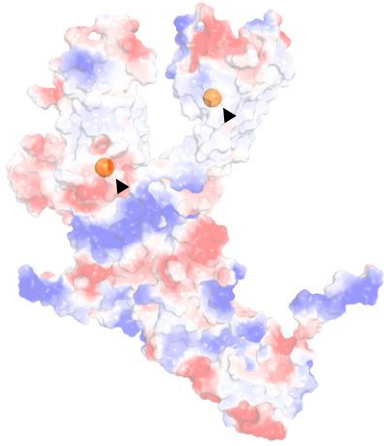
735 755
g a b c d e f g a b c d e f g a b c d e f
TRPC4 (mouse): T E E N **V** K E **L** K Q D I S S **F** R F E **V** L G **L** L R
TRPC5 (mouse): T E E N **F** K E **L** K Q D I S S **F** R Y E **V** L D **L** L G

ED Figure 7.

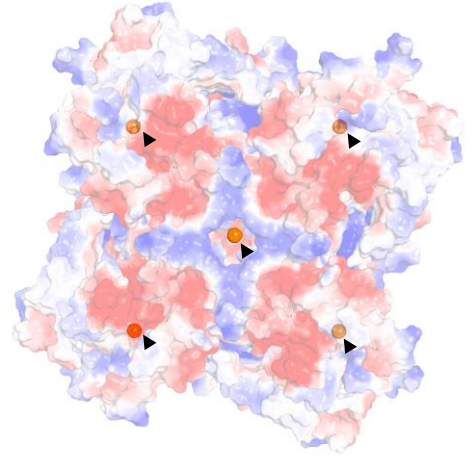
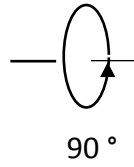
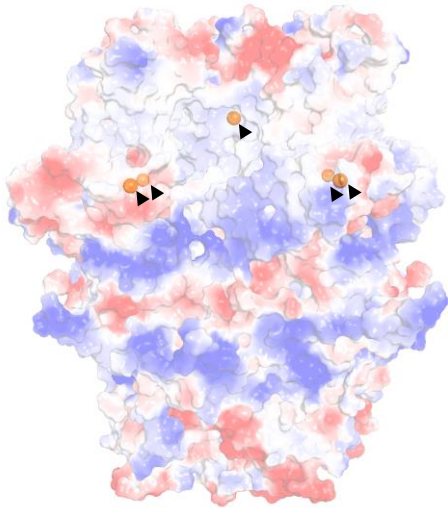


ED Figure 9.

a



b



ED Figure 10.

