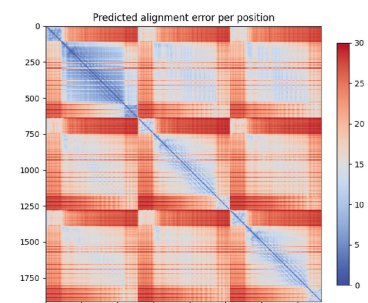
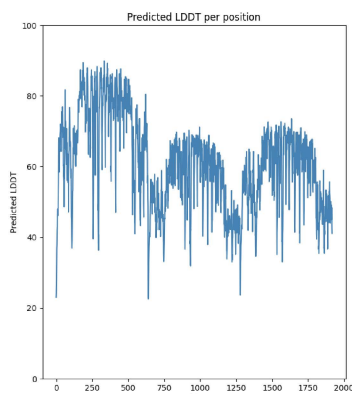
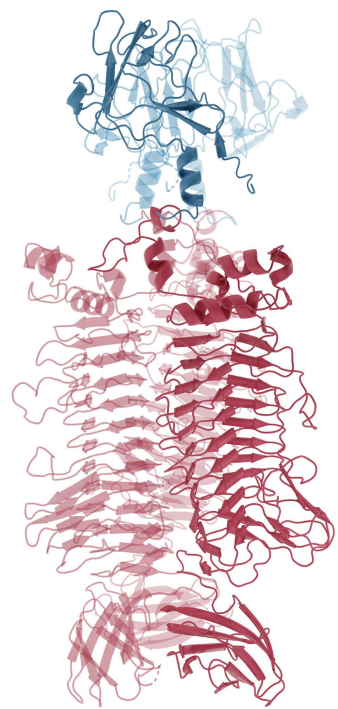


Name: 611R6_RBP

Subtype target serogroup: 02

Genus: Lederbergvirus



a.

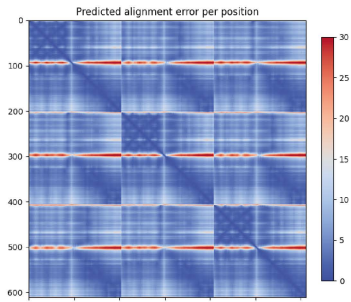
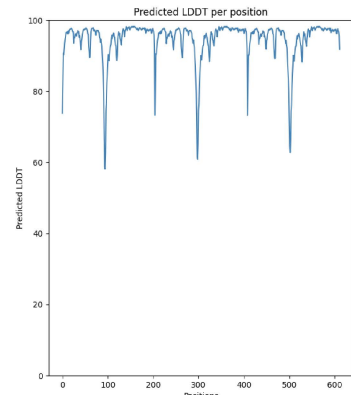
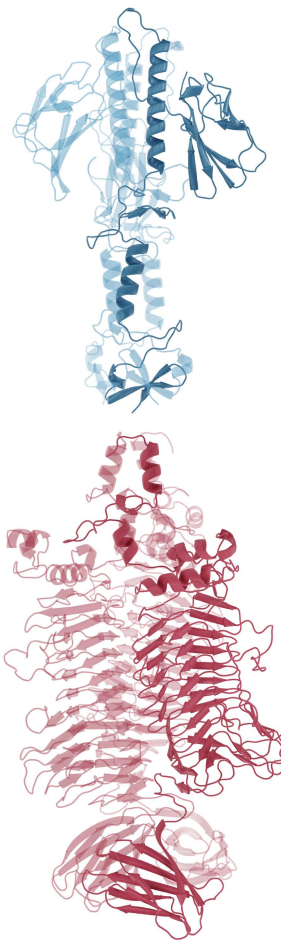
b.

c.

Name: SCU-116_Prophage_RBP

Subtype target serogroup: 02

Genus: Uetakevirus



a.

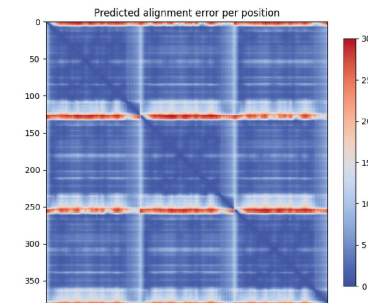
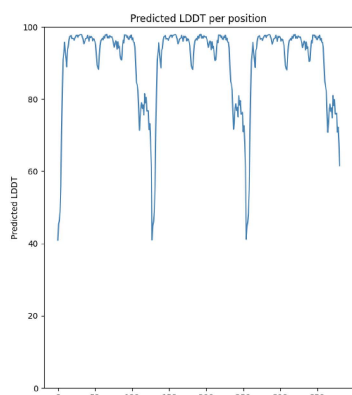
b.

c.

Name: 90-1_Prophage_RBP

Subtype target serogroup: 08

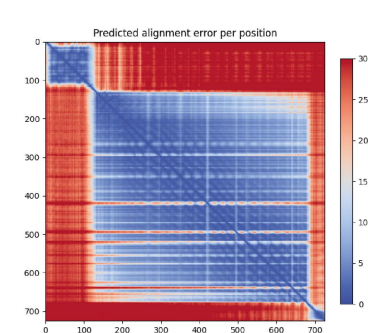
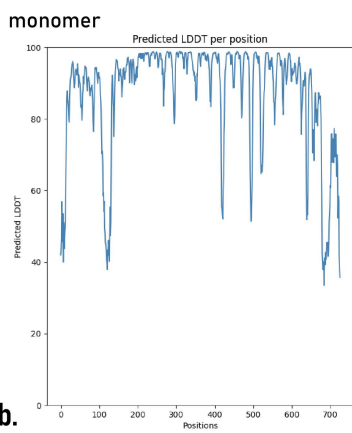
Genus: Lederbergvirus



a.

b.

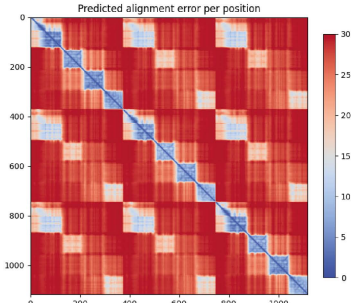
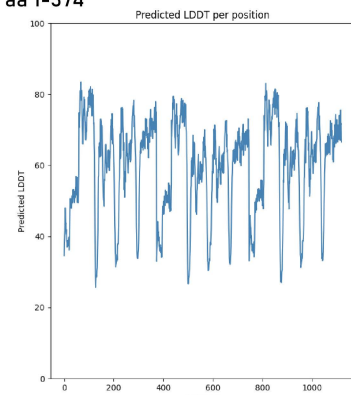
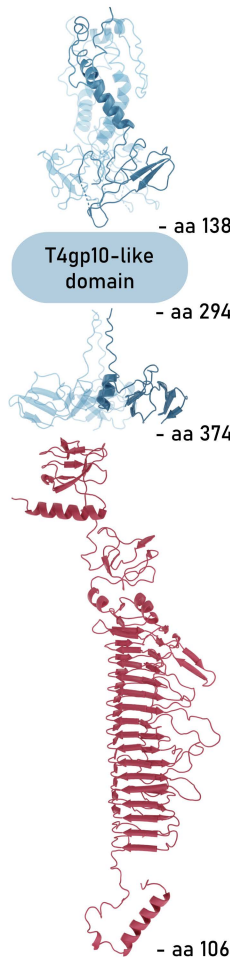
c.



Name: G7C_RBP1

Subtype target serogroup: 08

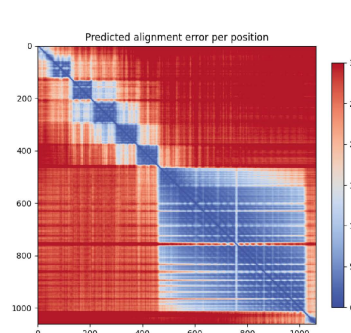
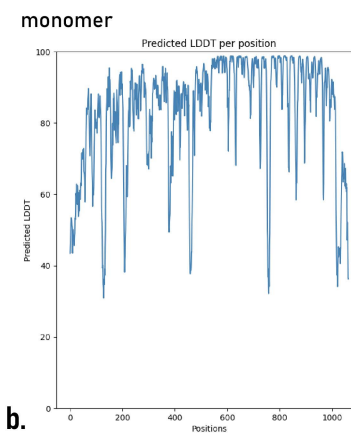
Genus: Gamaleyavirus



a.

b.

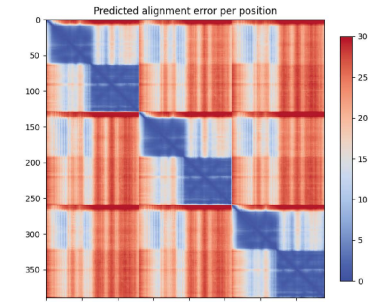
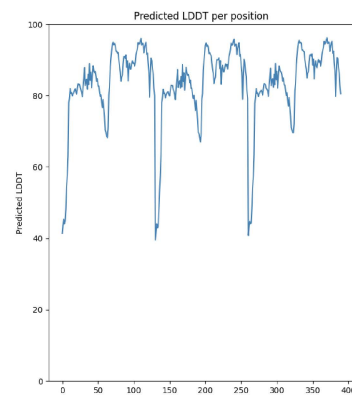
c.



Name: 590B_RBP

Subtype target serogroup: 016

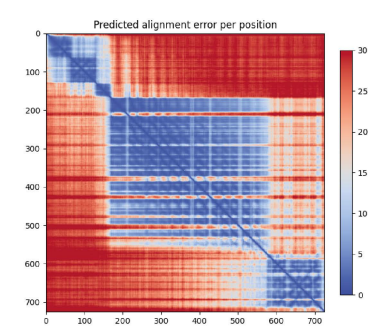
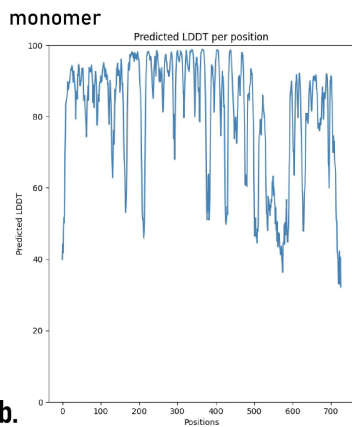
Genus: Kagunavirus



a.

b.

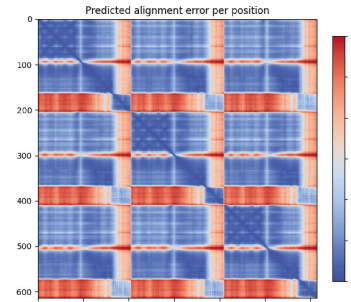
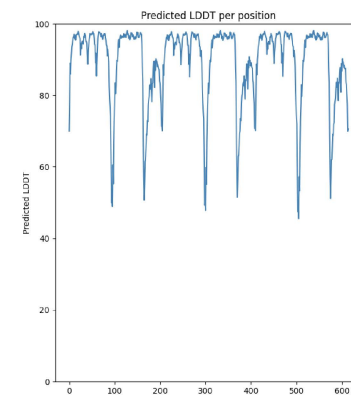
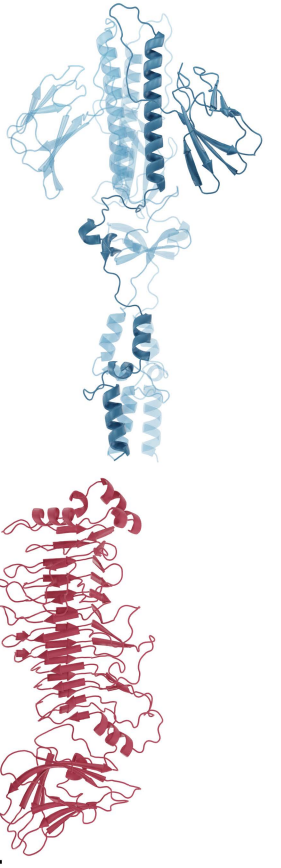
c.



Name: RHB30-C16_Prophage_RBP

Subtype target serogroup: 016

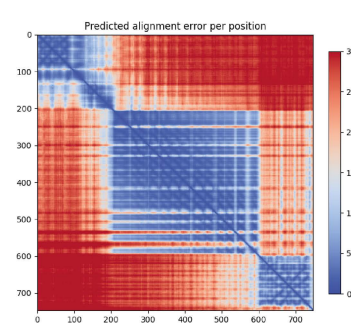
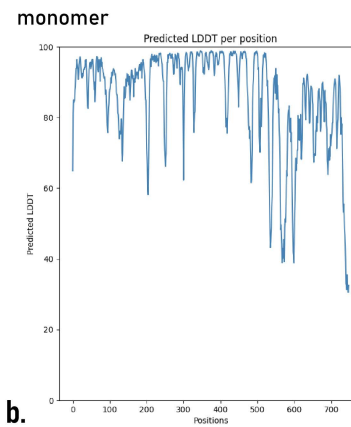
Genus: Uetakevirus



a.

b.

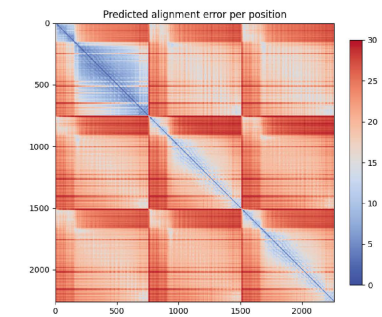
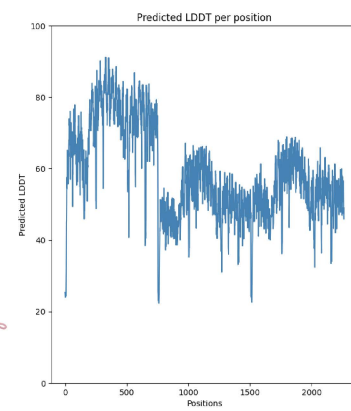
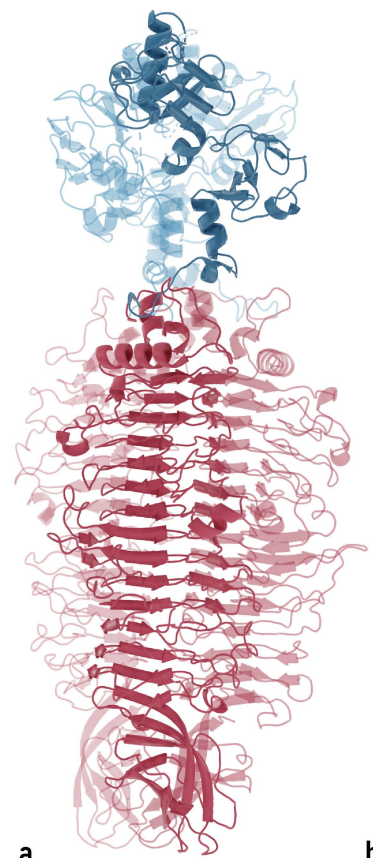
c.



Name: EP75_RBP1

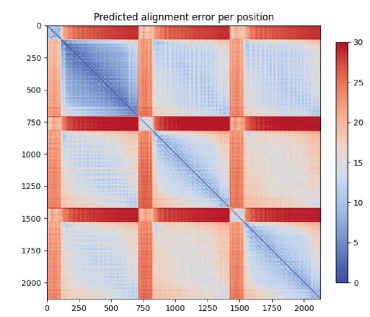
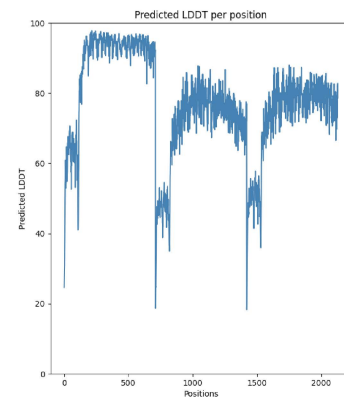
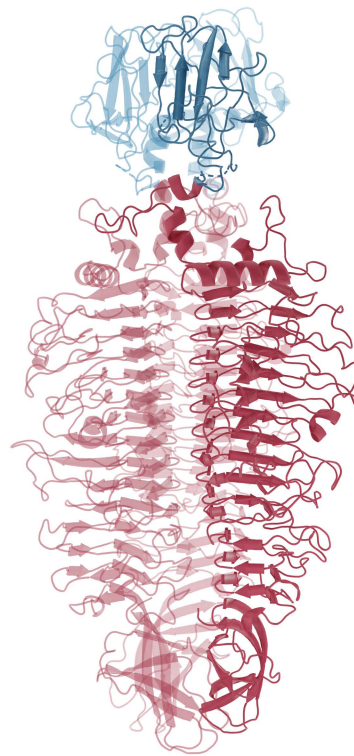
Subtype target serogroup: 018

Genus: Kuttervirus



Subtype target serogroup: 018

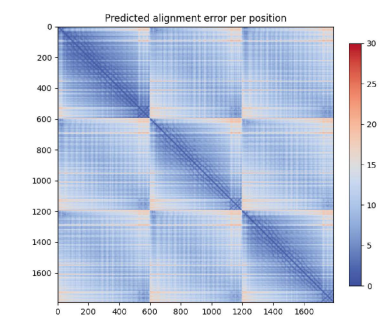
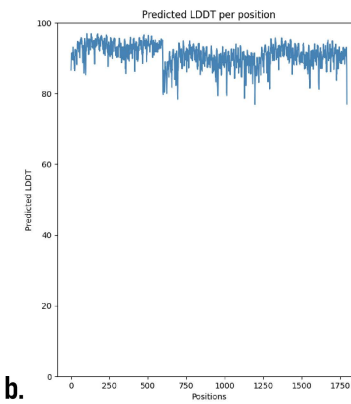
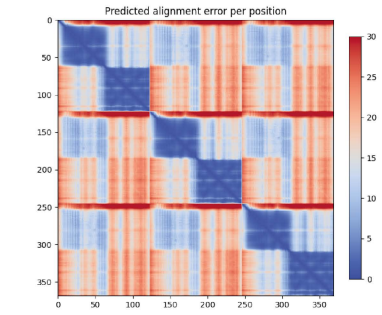
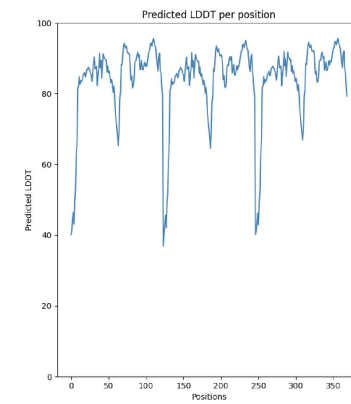
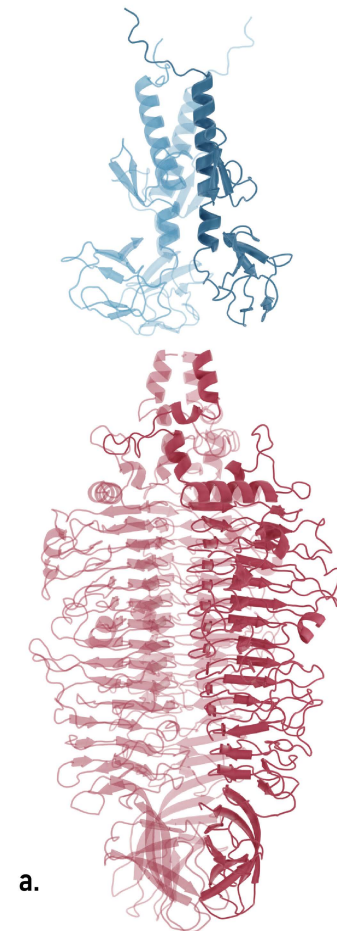
Genus: Lederbergvirus



Name: Klind1_RBP

Subtype target serogroup: 018

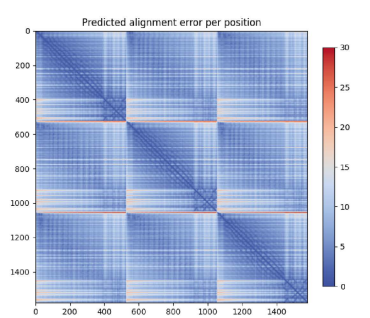
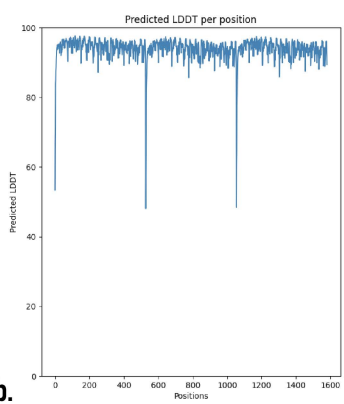
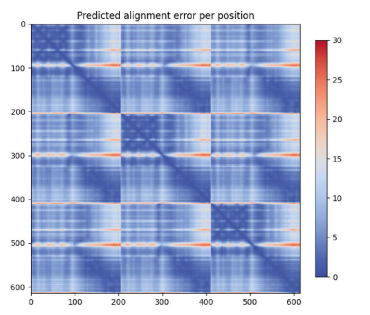
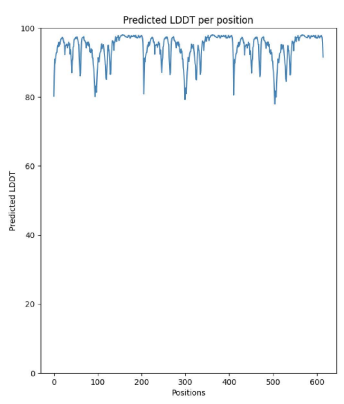
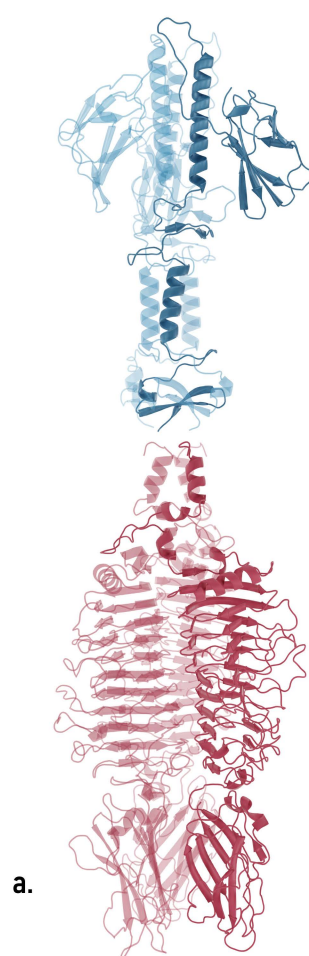
Genus: Kagunavirus



Name: CP8-3_Sichuan_Prophage_RBP

Subtype target serogroup: 045

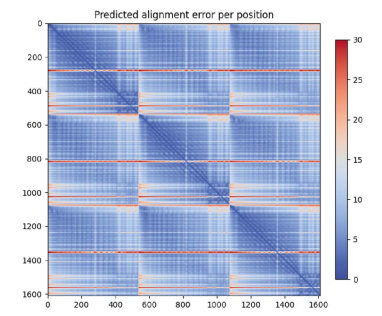
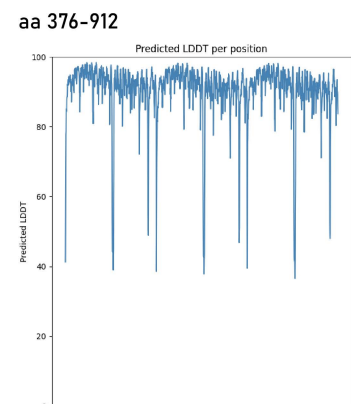
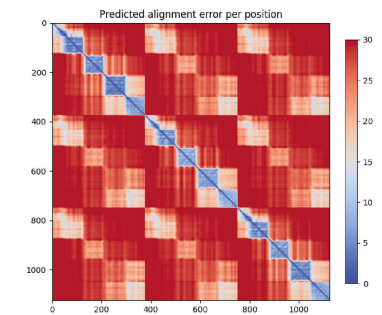
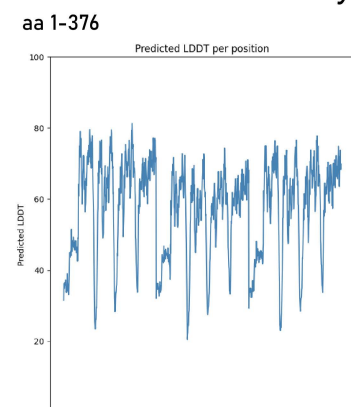
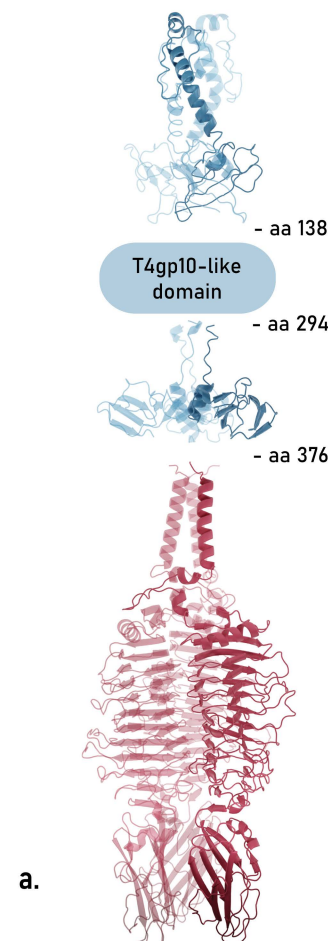
Genus: Uetakevirus



Name: Phapec7_RBP1

Subtype target serogroup: 045

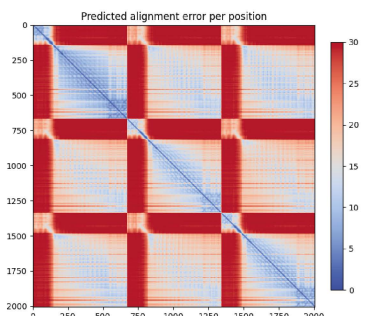
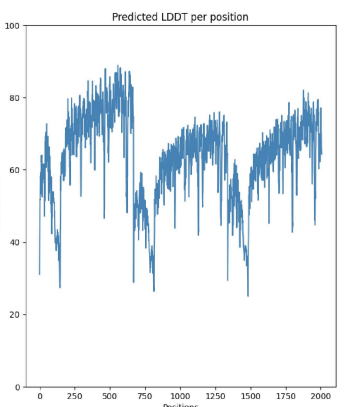
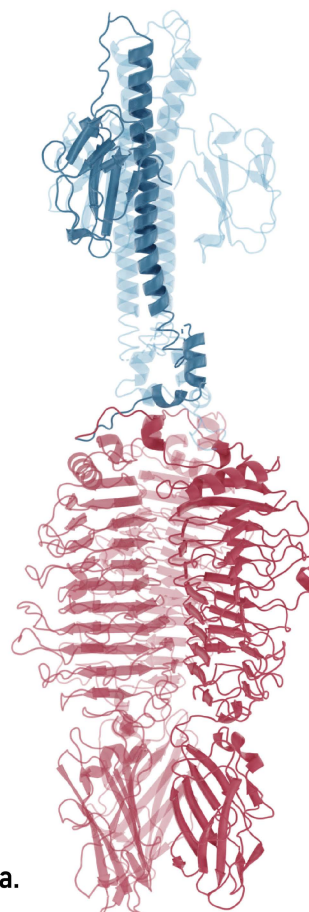
Genus: Gamaleyavirus



Name: Ro45lw_RBP

Subtype target serogroup: 045

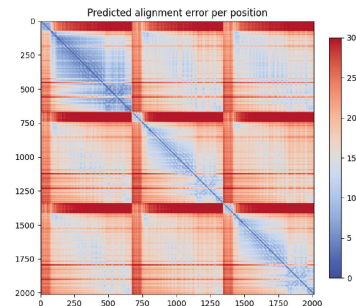
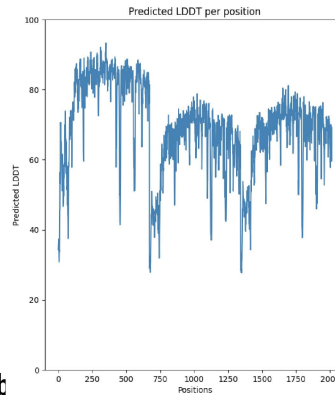
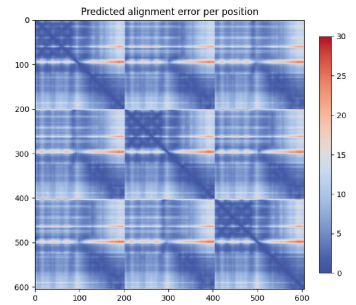
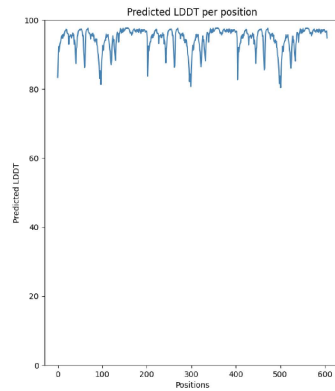
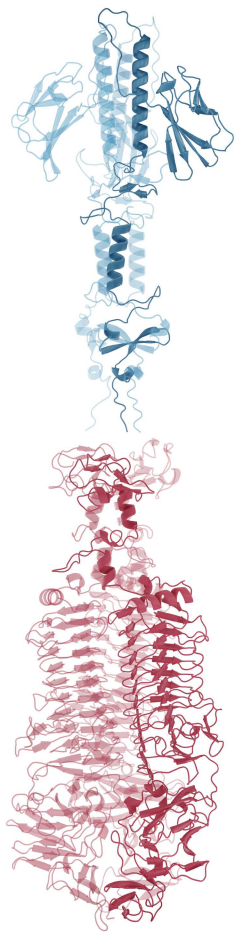
Genus: Kayfunavirus



Name: E2865_Prophage_RBP

Subtype target serogroup: 026

Genus: Uetakevirus

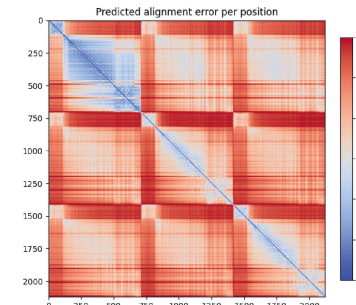
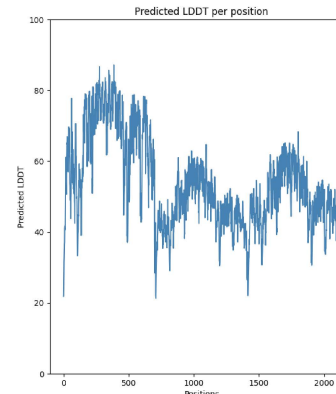


b.

Name: RM10386_Prophage_RBP

Subtype target serogroup: 026

Genus: Lederbergvirus



a.

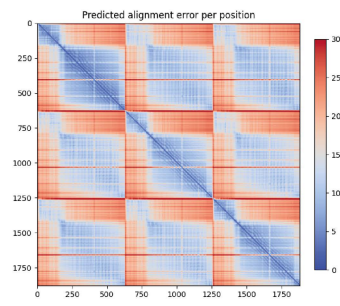
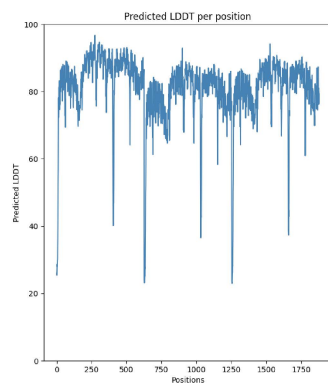
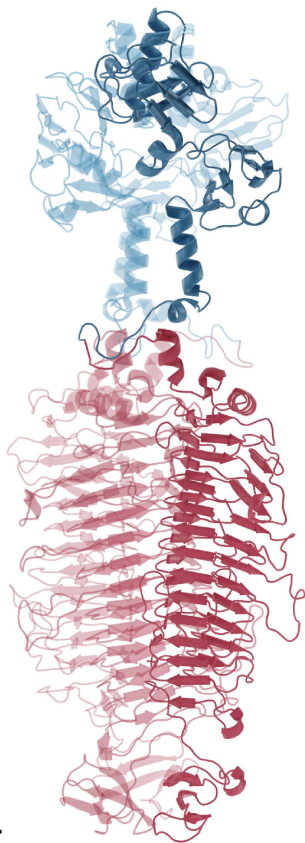
b.

c.

Name: CBA120_RBP3

Subtype target serogroup: 077

Genus: Kuttevirus



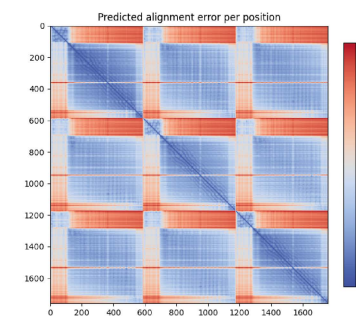
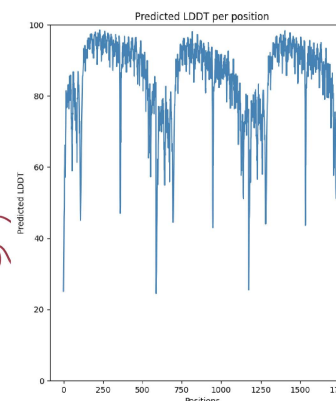
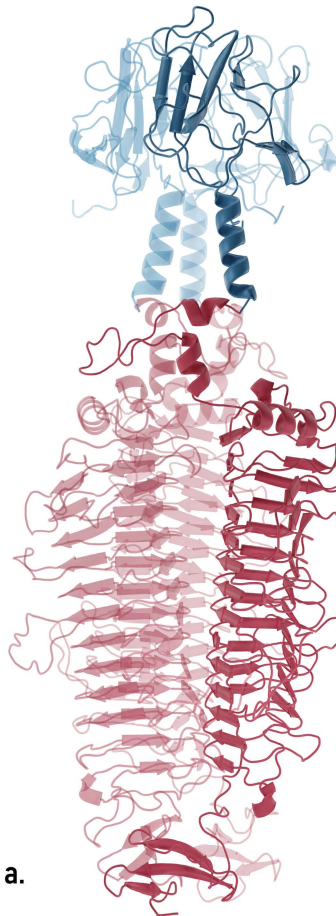
b.

c.

Name: RM-055-WU_Prophage_RBP

Subtype target serogroup: 077

Genus: Lederbergvirus



a.

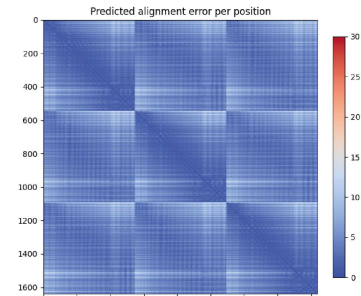
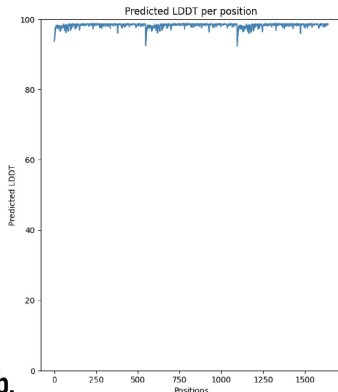
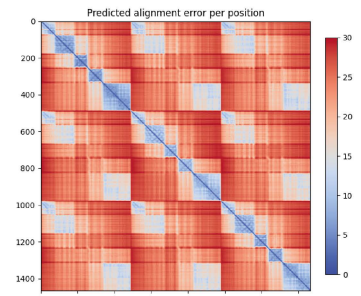
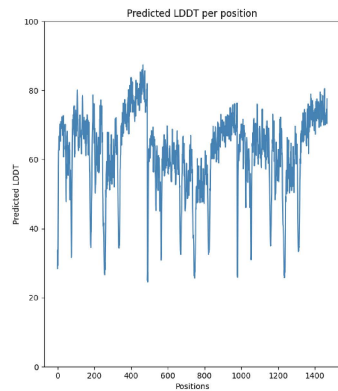
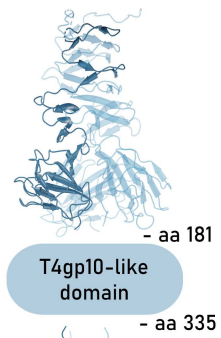
b.

c.

Name: CBA120_RBP4

Subtype target serogroup: 078

Genus: Kuttervirus



a.

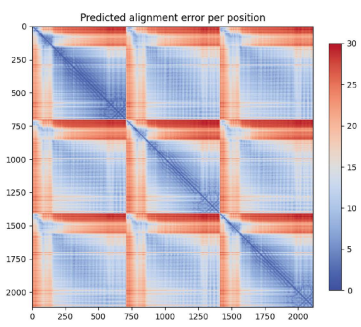
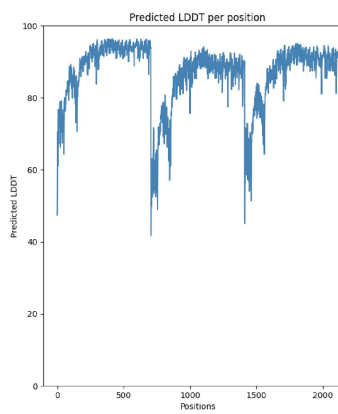
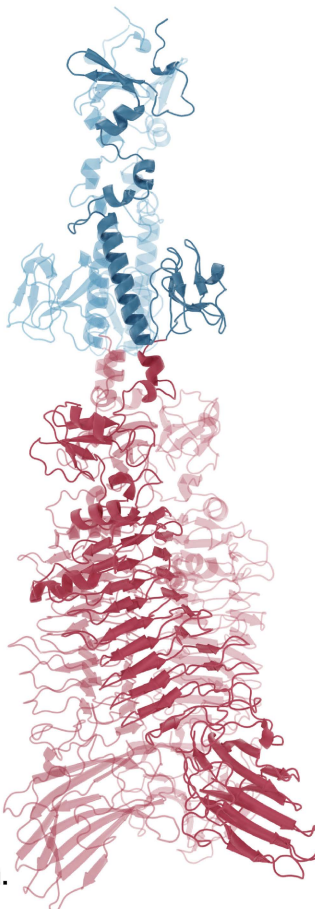
b.

c.

Name: PD06_RBP

Subtype target serogroup: 078

Genus: Justusliebigvirus



a.

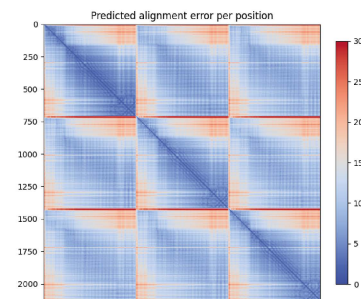
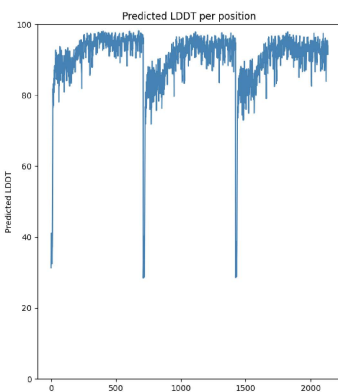
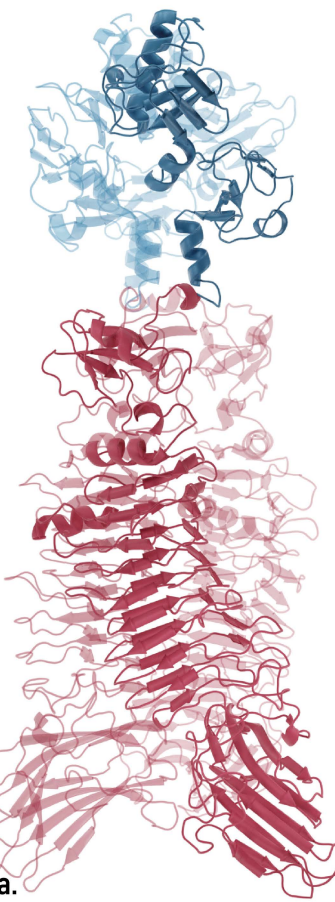
b.

c.

Name: Phapec7_RBP2

Subtype target serogroup: 078

Genus: Gamaleyavirus



a.

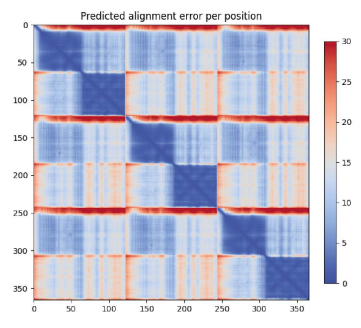
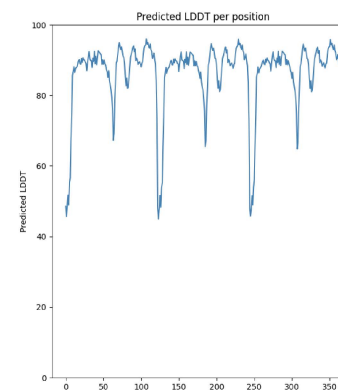
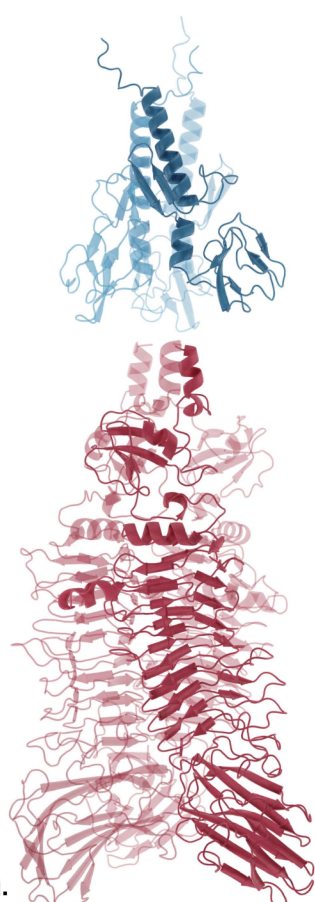
b.

c.

Name: phiWA078-1_RBP

Subtype target serogroup: 078

Genus: Kagunavirus



a.

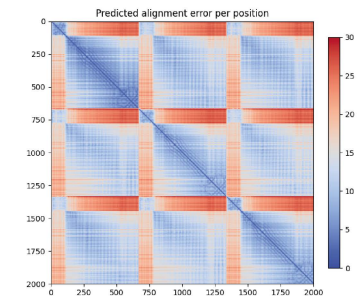
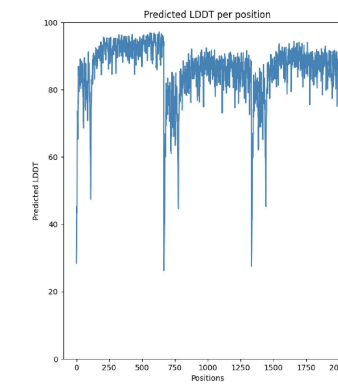
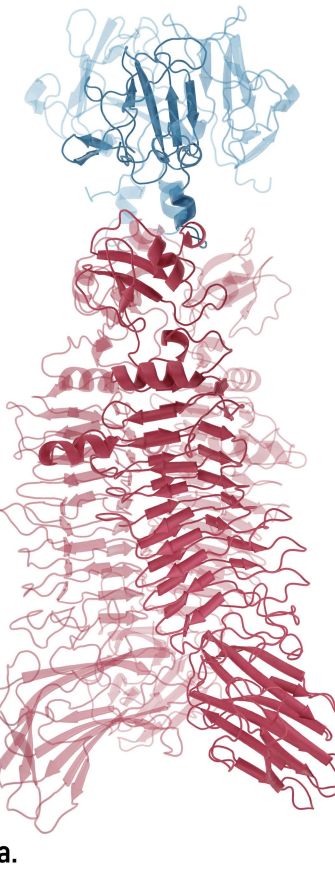
b.

c.

Name: RHB17-C10_Prophage_RBP

Subtype target serogroup: 078

Genus: Lederbergvirus



a.

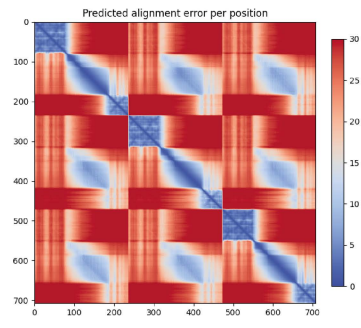
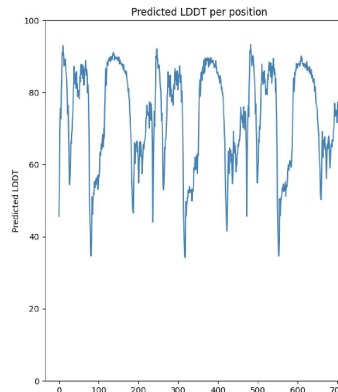
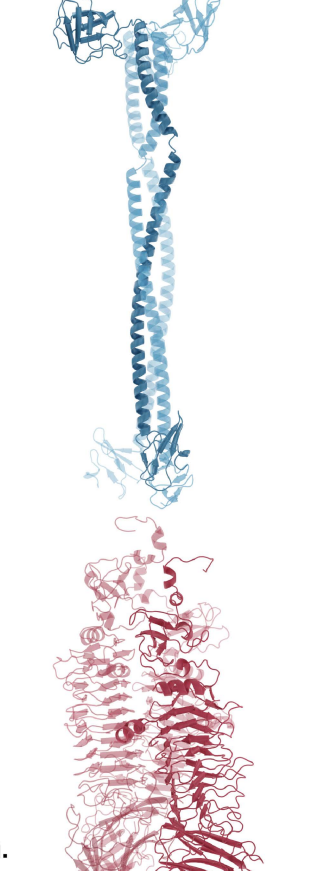
b.

c.

Name: ESC041_RBP

Subtype target serogroup: 078

Genus: Nouzillyvirus



a.

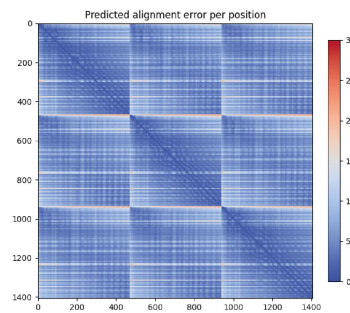
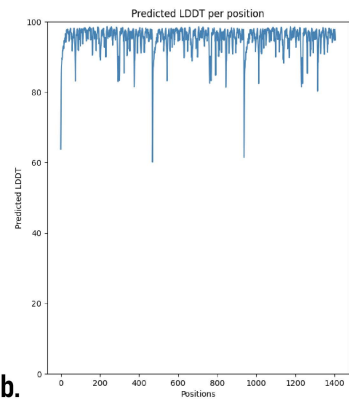
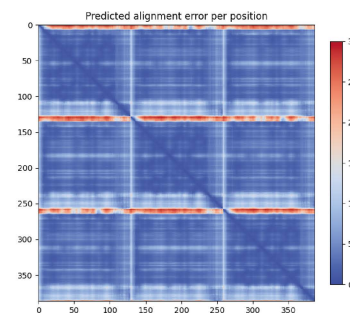
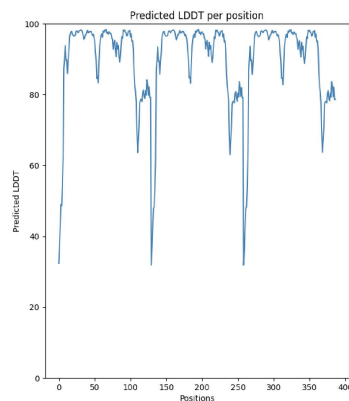
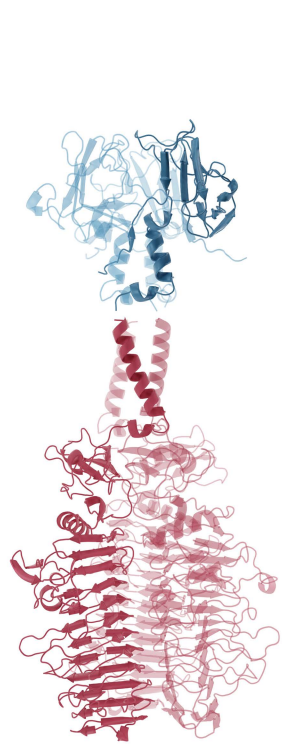
b.

c.

Name: RHB38-C21_Prophage_RBP

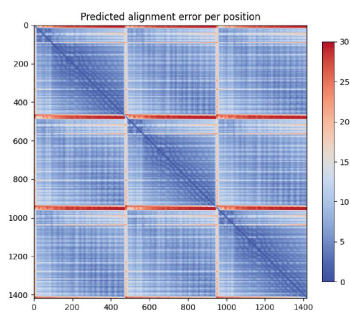
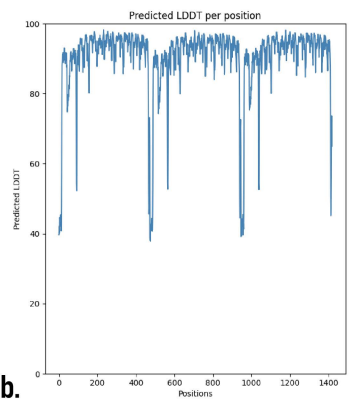
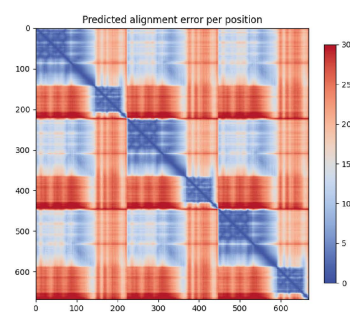
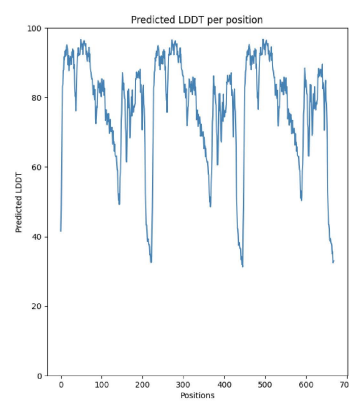
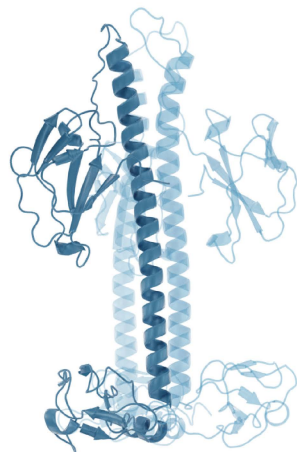
Subtype target serogroup: 0103

Genus: Lederbergvirus



Subtype target serogroup: 0103

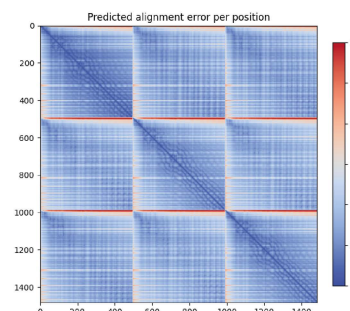
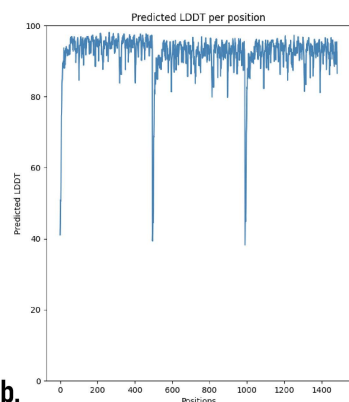
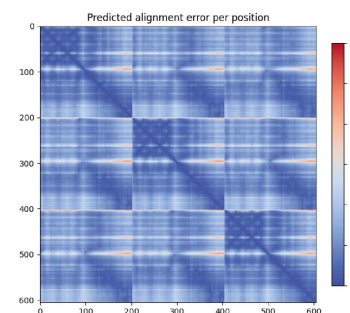
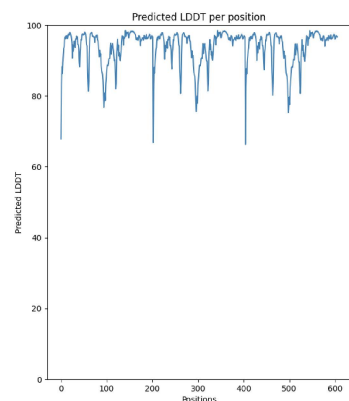
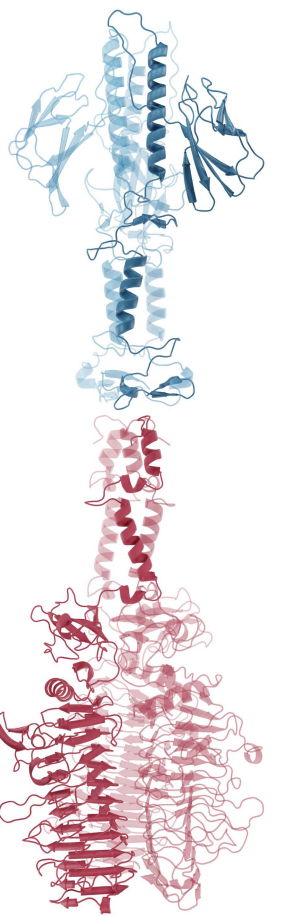
Genus: Kayfunavirus



Name: TL-2011b_RBP

Subtype target serogroup: 0103

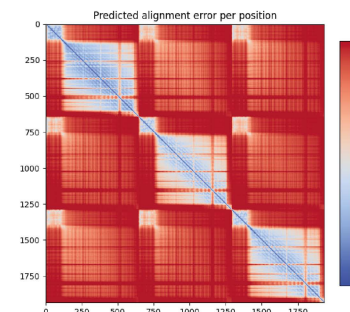
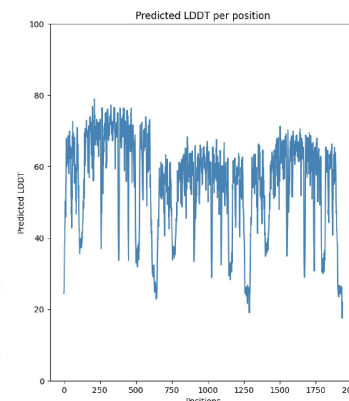
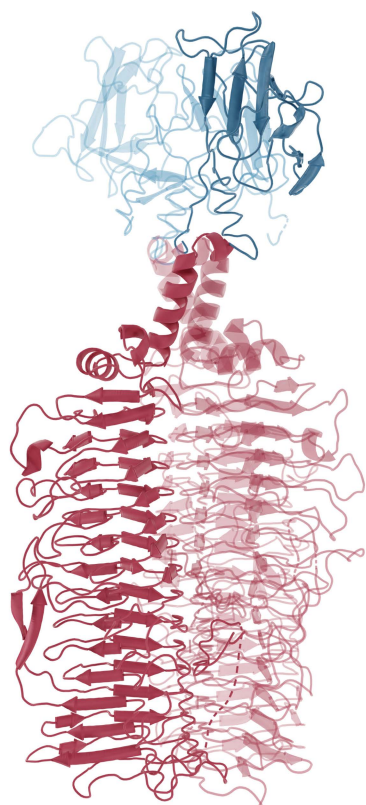
Genus: Uetakevirus



Name: 110512_RBP

Subtype target serogroup: 0111

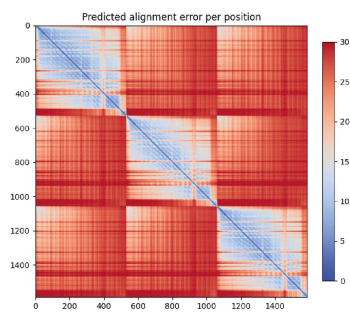
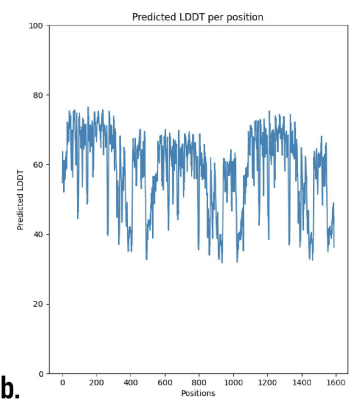
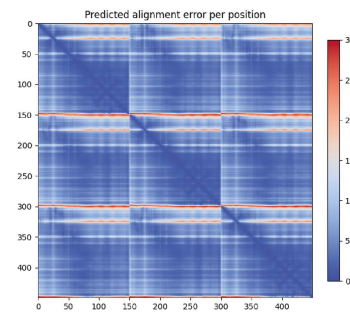
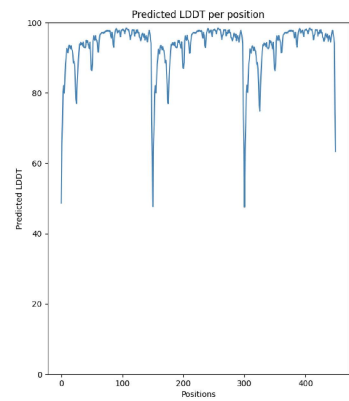
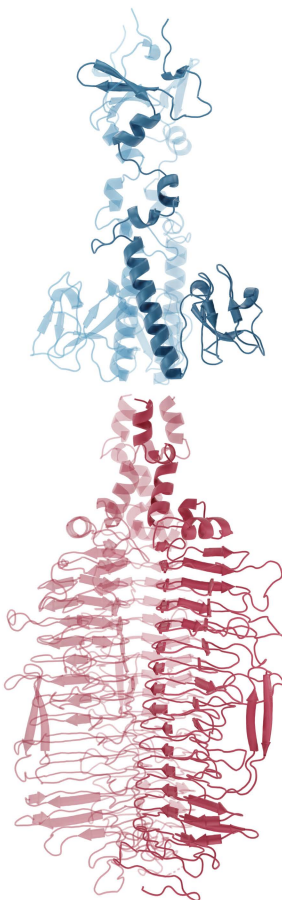
Genus: Lederbergvirus



Name: ECGD1_RBP

Subtype target serogroup: 0111

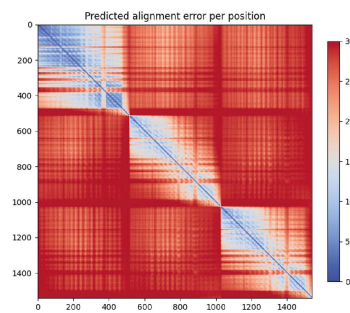
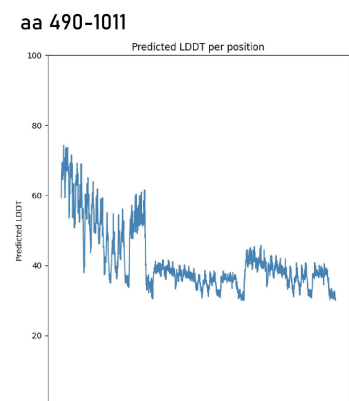
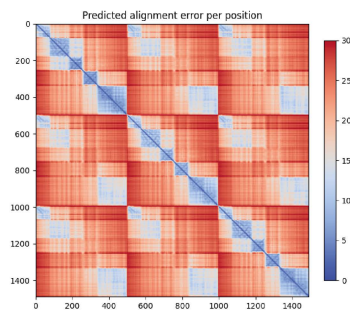
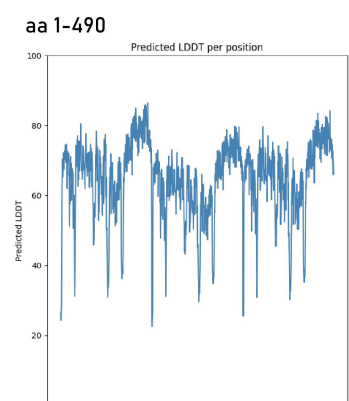
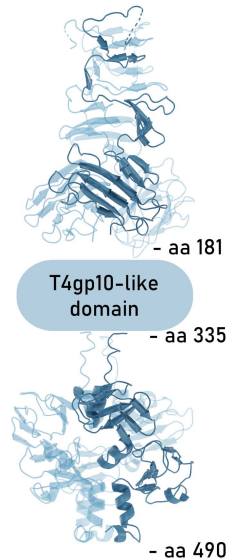
Genus: Justusliebigvirus



Name: STP55_RBP4

Subtype target serogroup: 0111

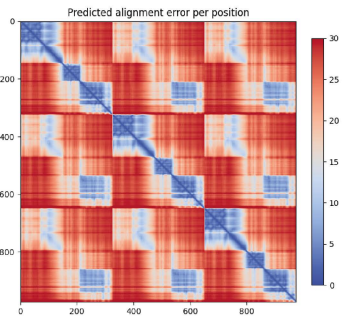
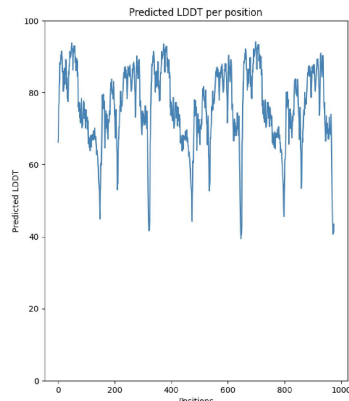
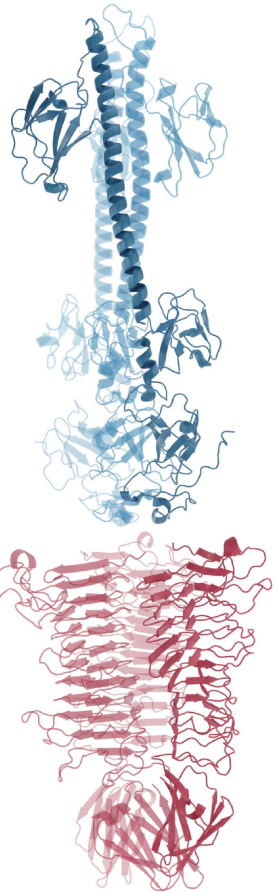
Genus: Kuttervirus



Name: CLB-P1_RBP

Subtype target serogroup: 0104

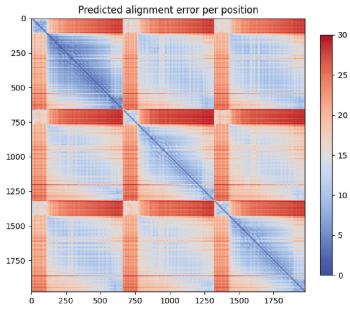
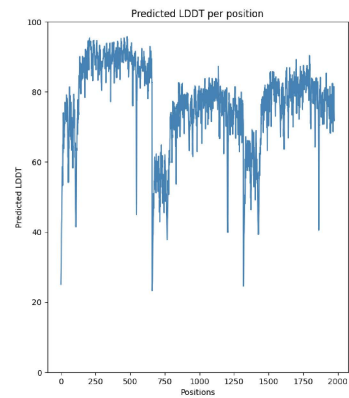
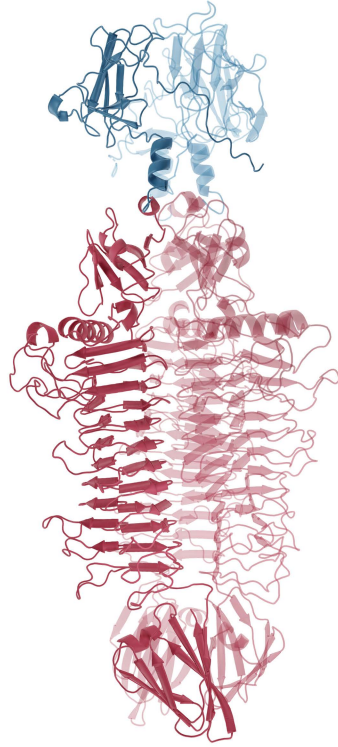
Genus: Kayfunavirus



Name: LB226692_Prophage_RBP

Subtype target serogroup: 0104

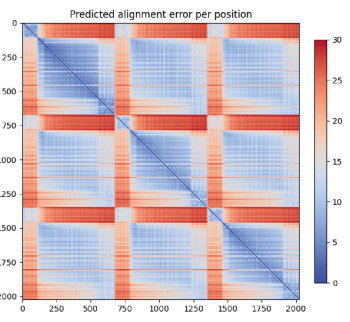
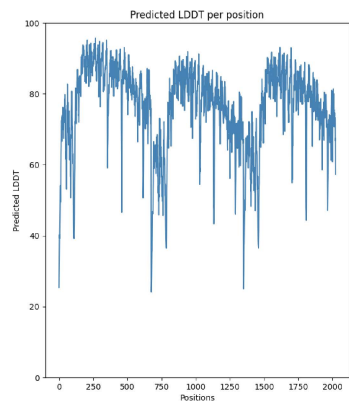
Genus: Lederbergvirus



Name: FHI58_Prophage_RBP

Subtype target serogroup: 0145

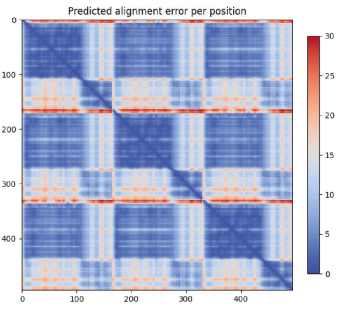
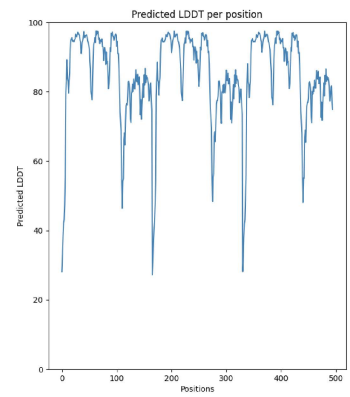
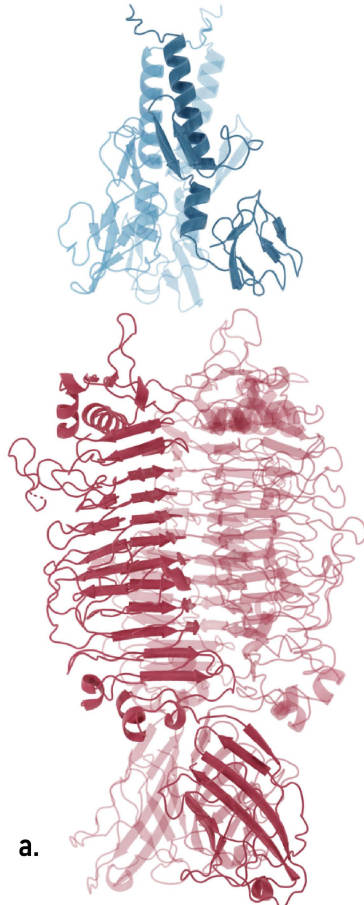
Genus: Lederbergvirus



Name: Ro145c2YLVW_RBP

Subtype target serogroup: 0145

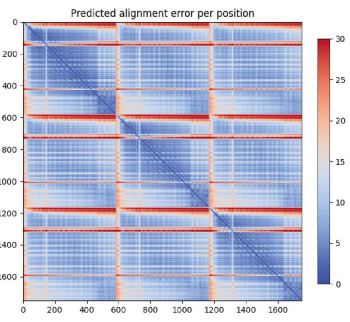
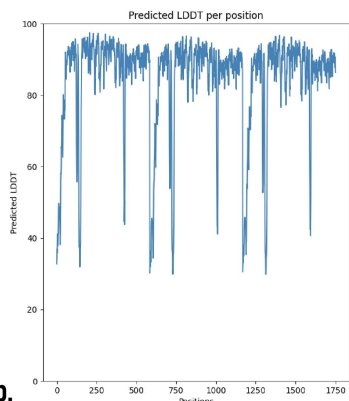
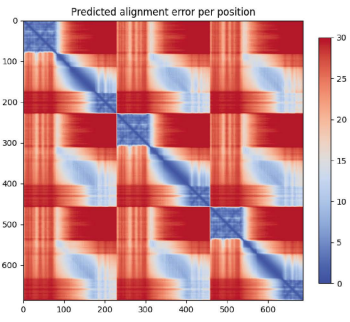
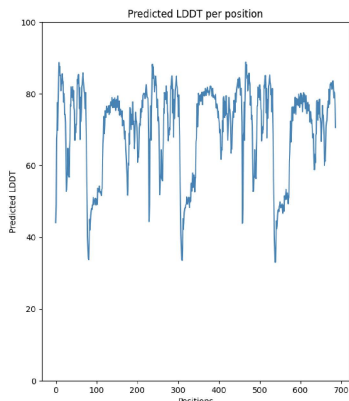
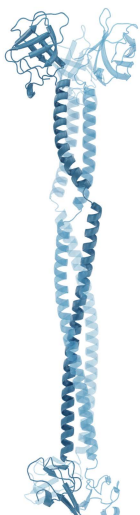
Genus: Kagunavirus

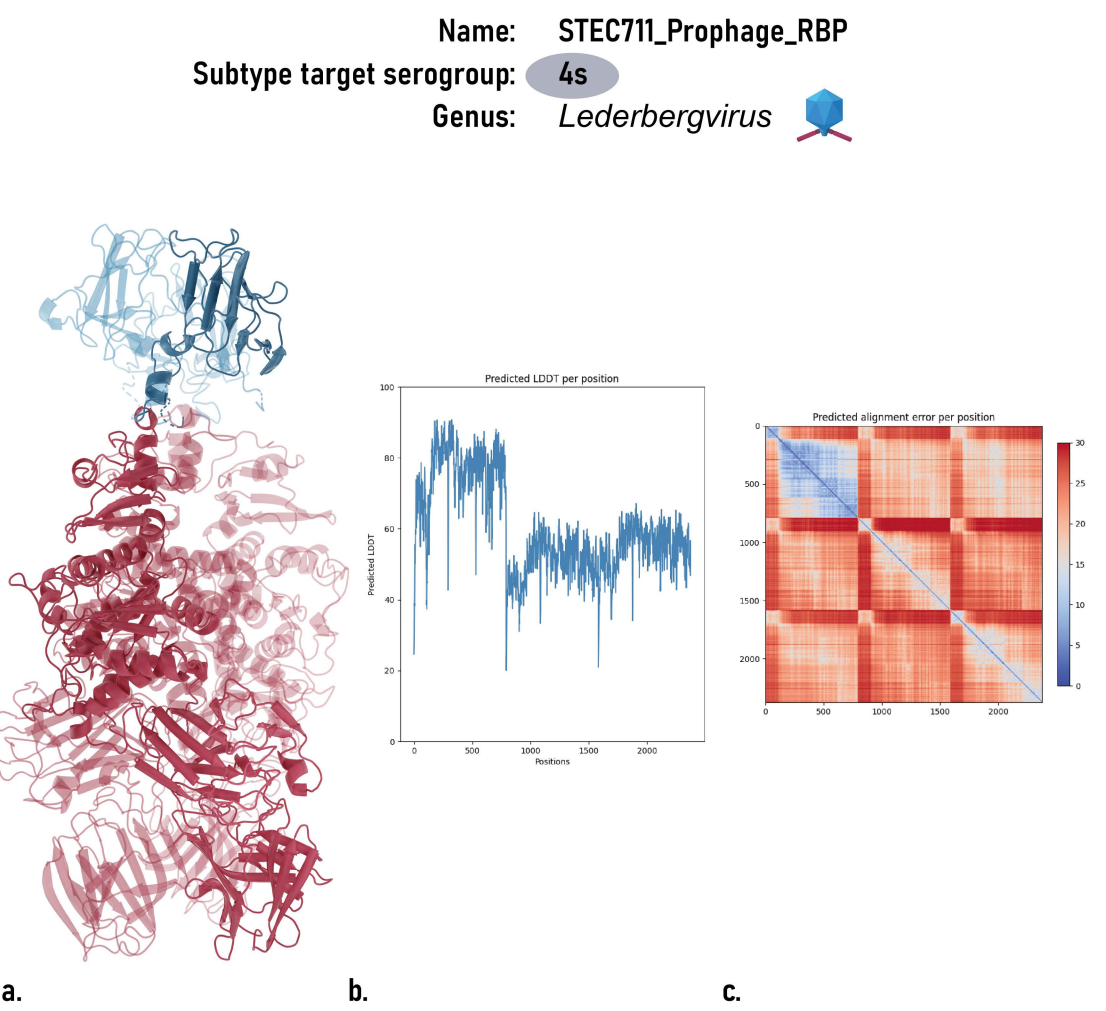
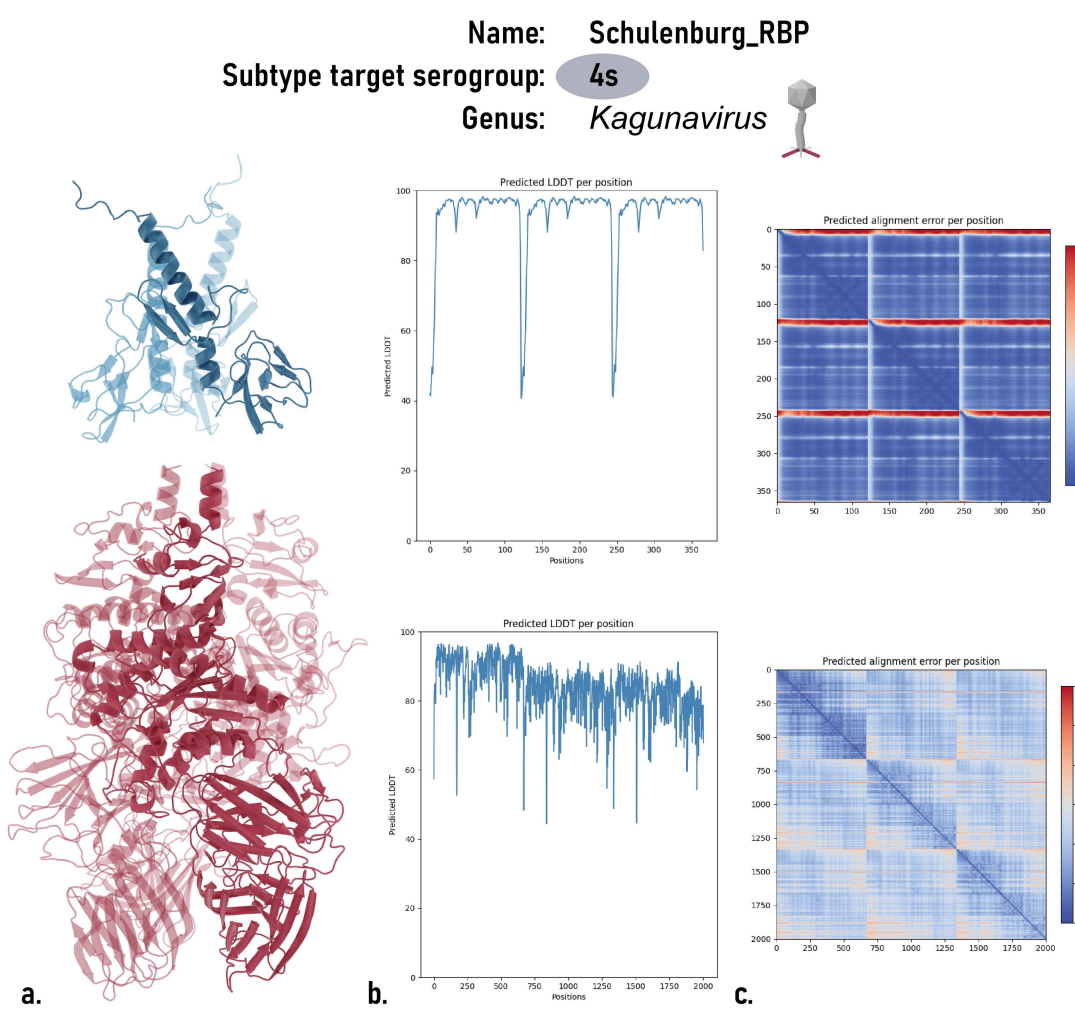
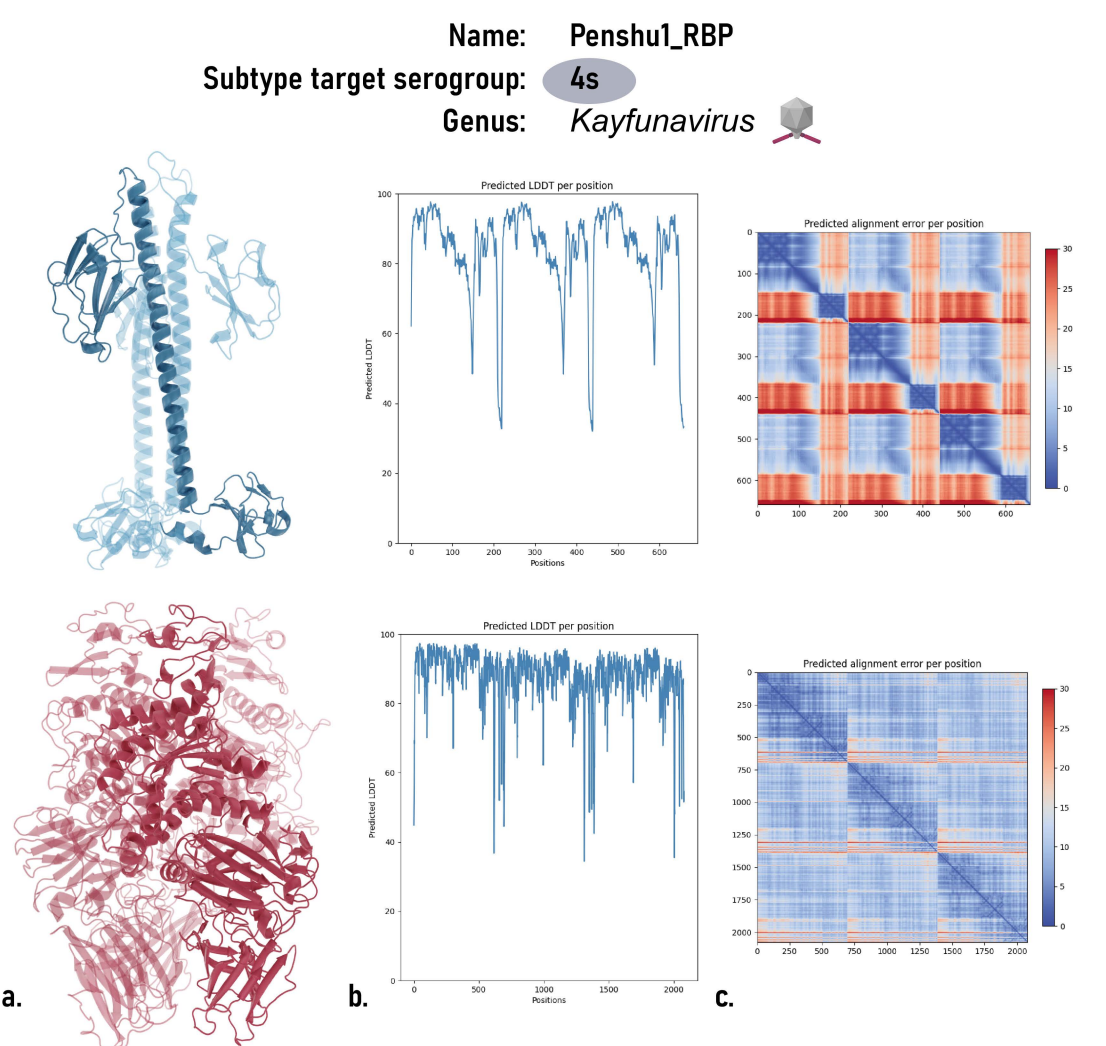
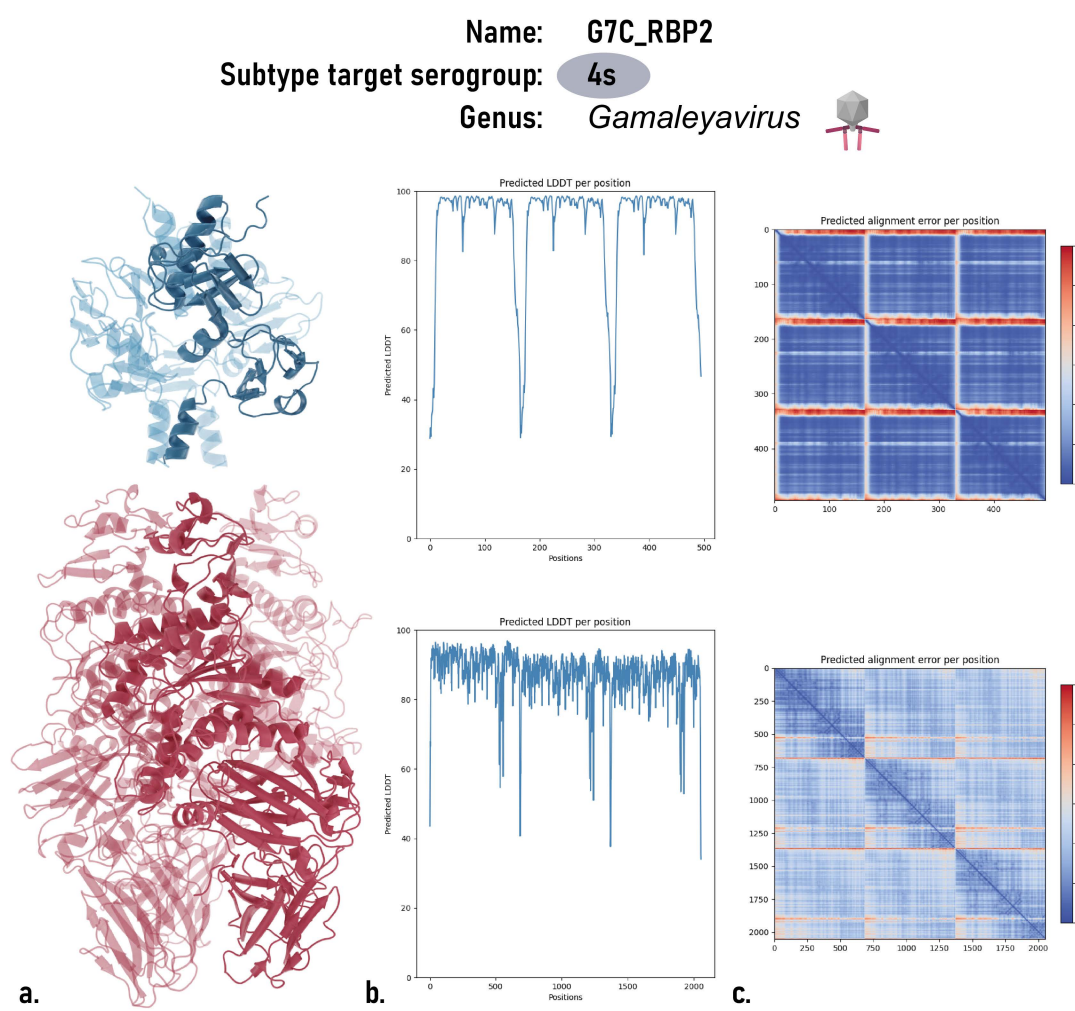
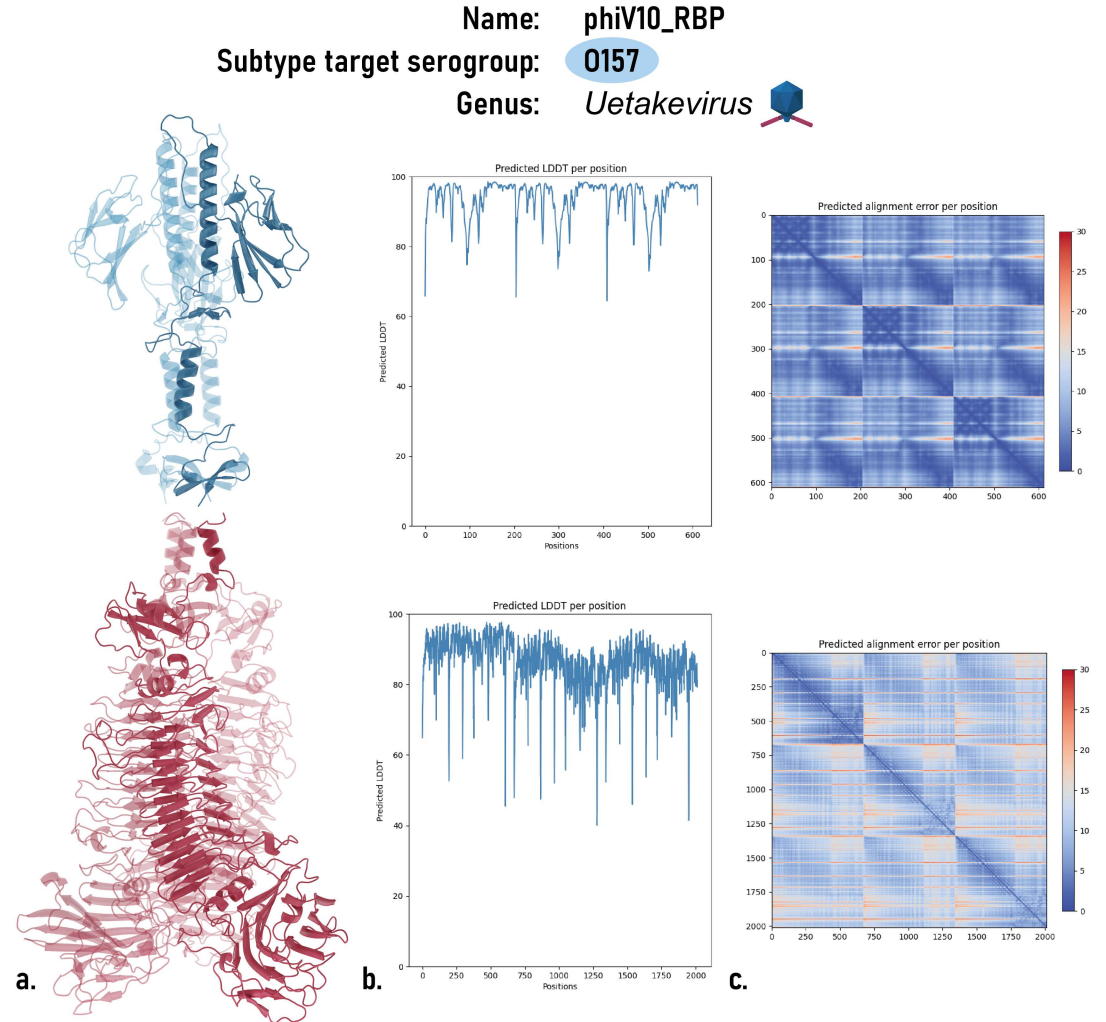
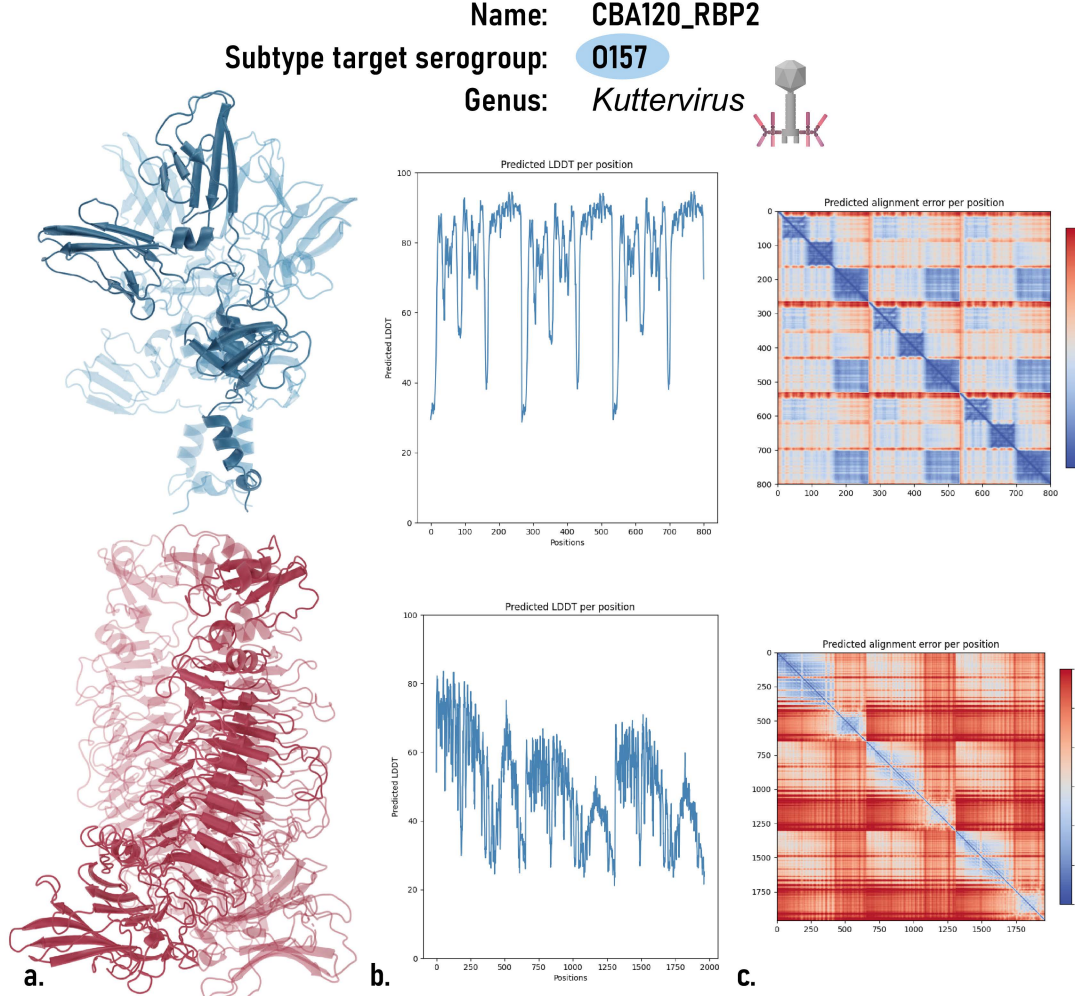


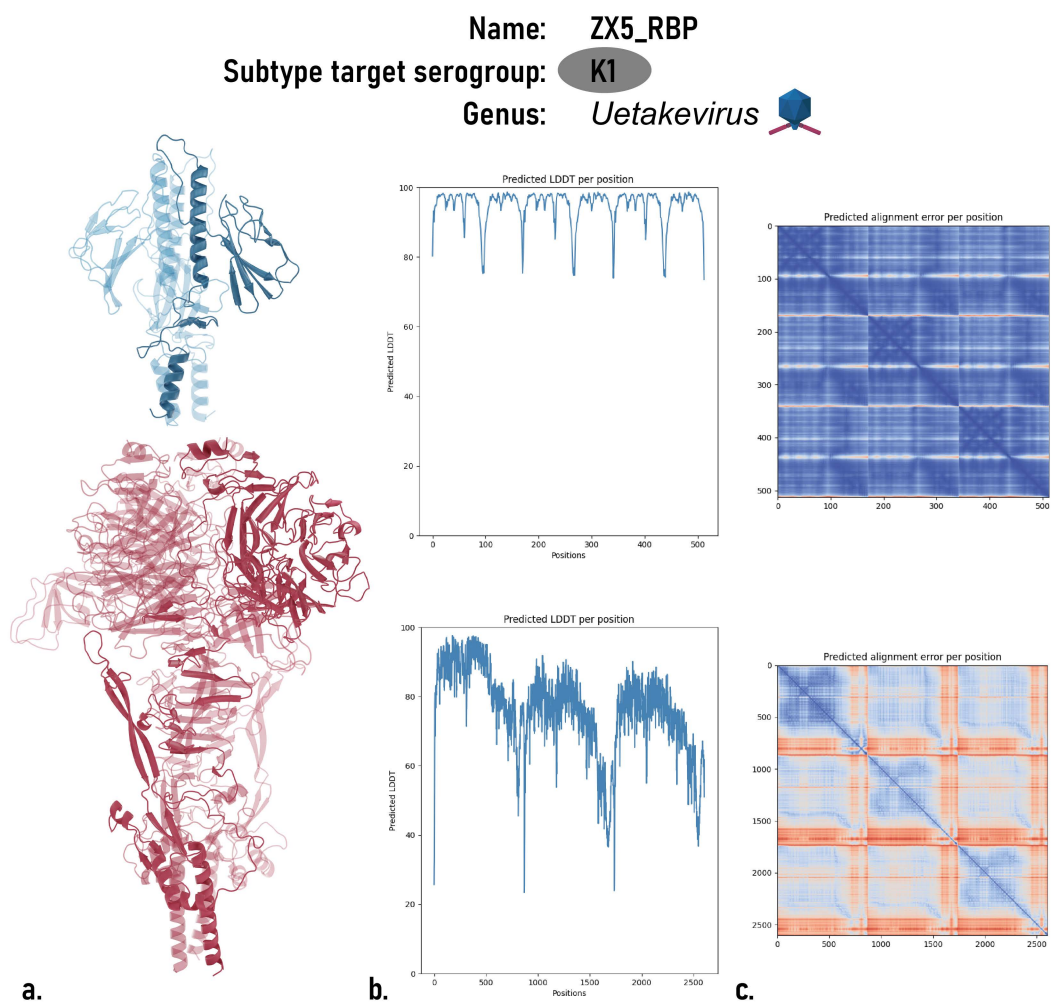
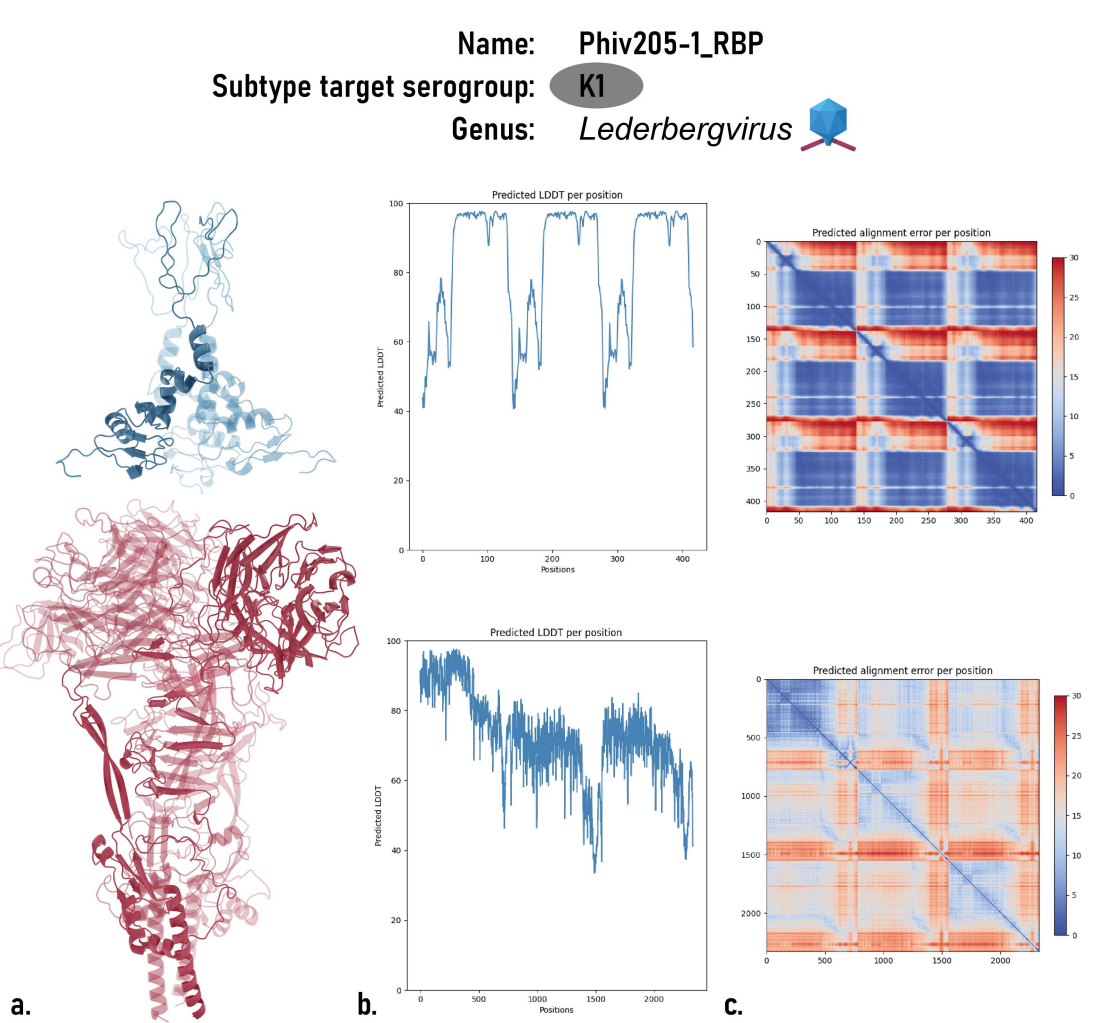
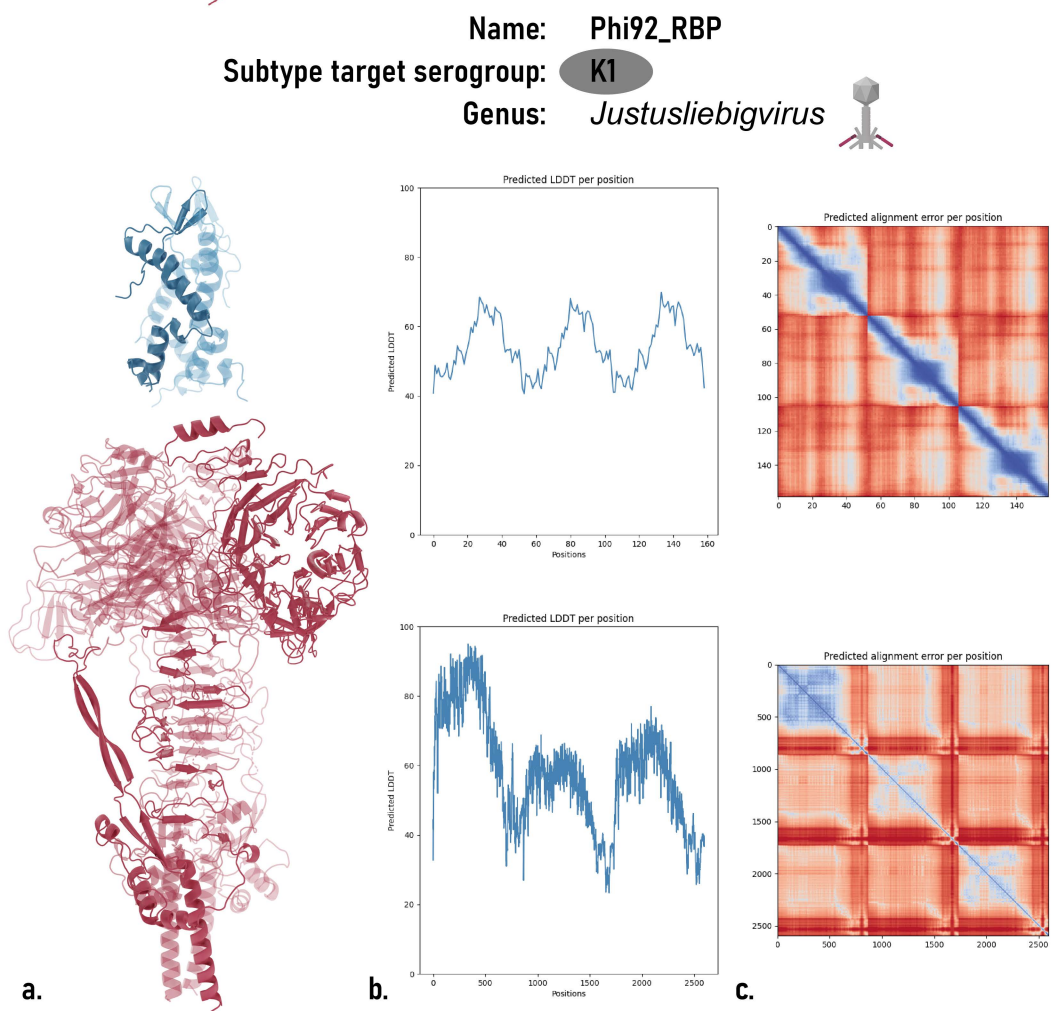
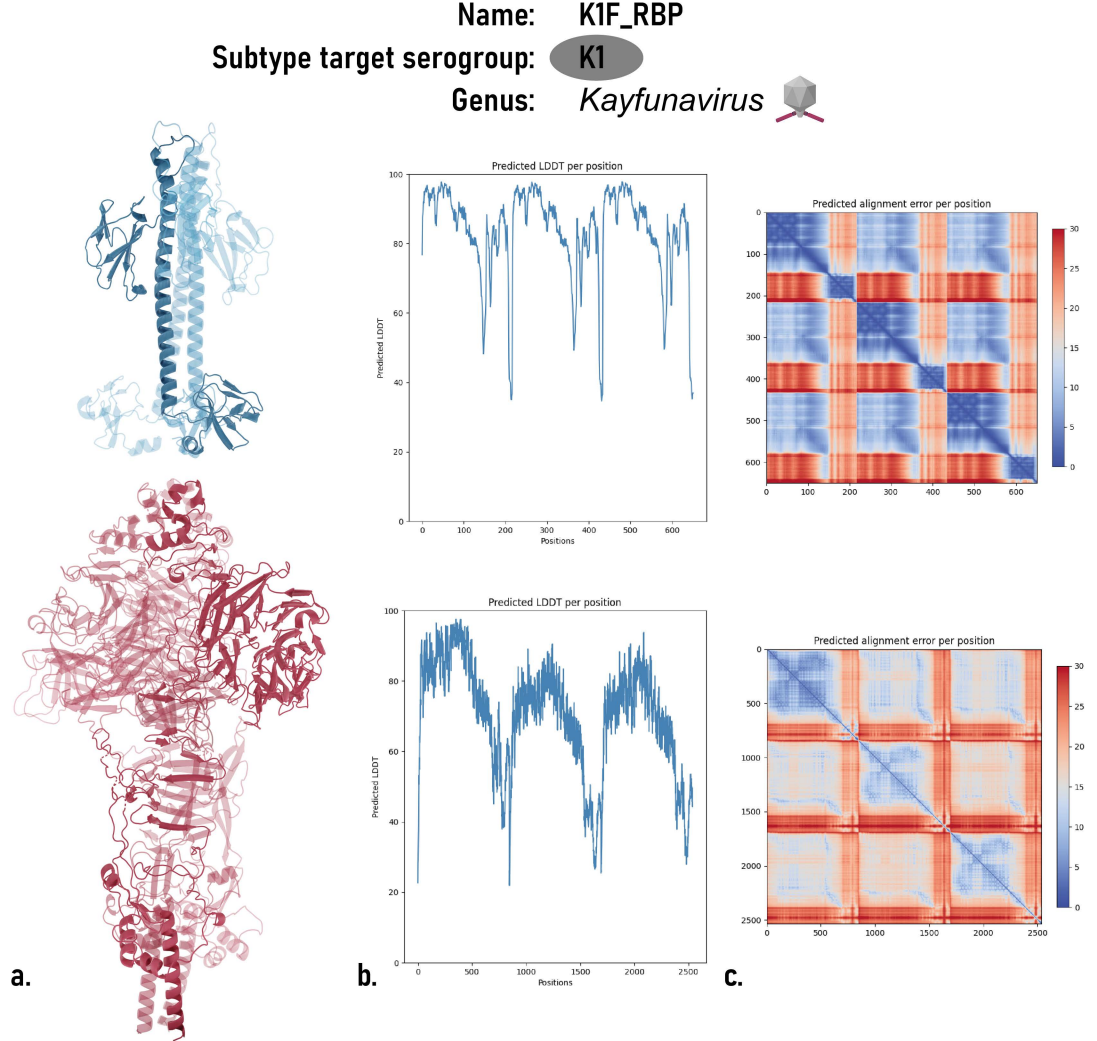
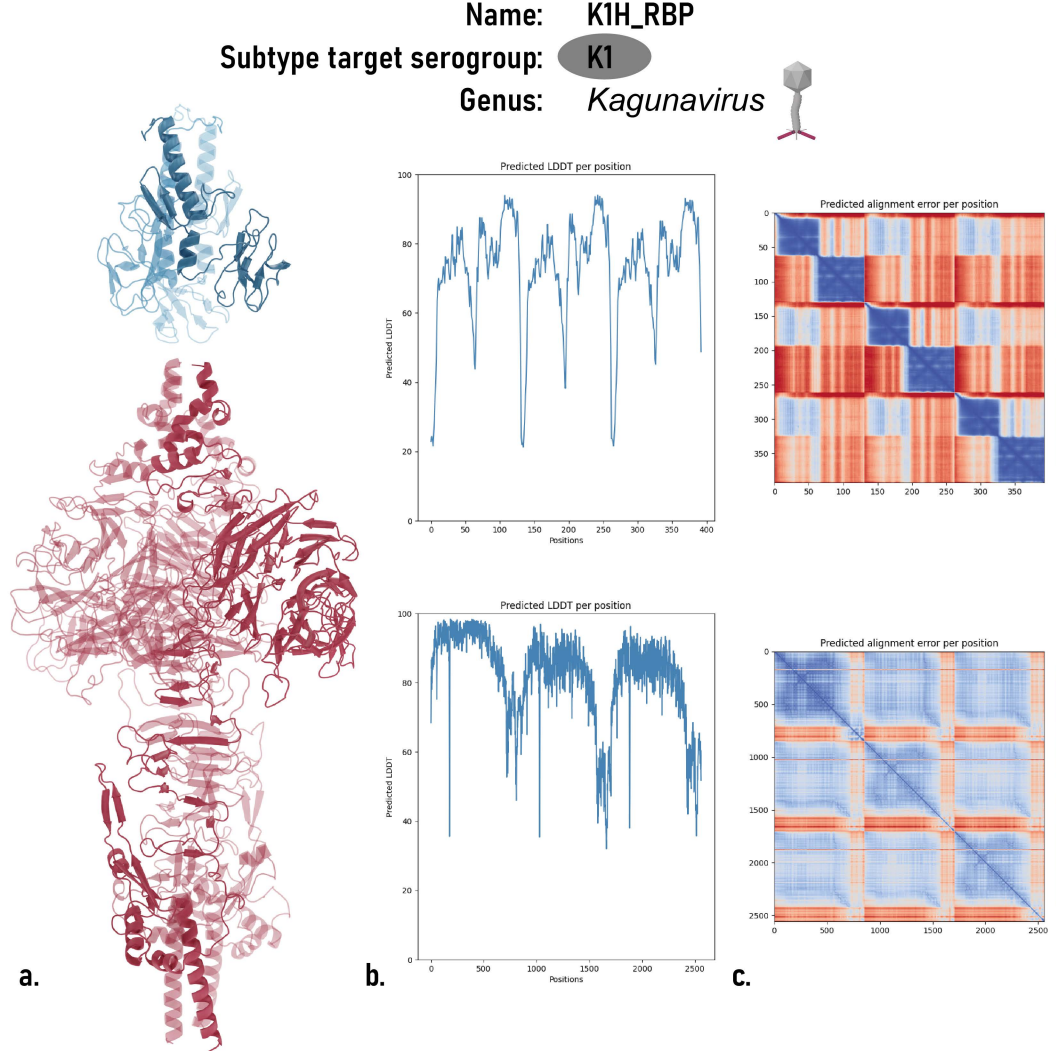
Name: P818_RBP

Subtype target serogroup: 0145

Genus: Nouzillyvirus







Additional file 4: Figure S4: Predicted quaternary structures of the phage RBPs using AlphaFold2.

RBPs are clustered according to RBP subtype (a) Anchor domain shown in blue and RBD indicated in red, using different shades for each of the three monomers. (b) AlphaFold2 predicted LDDT per amino acid position; the upper graph represents the anchor domain and the lower graph the RBD when the structure was predicted separately. (c) AlphaFold2 predicted alignment error per amino acid position; the upper graph represents the anchor domain and the lower graph the RBD when the structure was predicted separately. When quaternary structure predictions of domains were unsuccessful, the tertiary structure was displayed instead.