

Recombinant Antigens and Antibodies Supporting Chikungunya Virus Preclinical Research

Chikungunya virus (CHIKV) is an enveloped, positive-sense single-stranded RNA virus classified under the Alphavirus genus of the *Togaviridae* family. Primarily transmitted by *Aedes aegypti* and *Aedes albopictus* mosquitoes, CHIKV infection leads to acute febrile illness characterized by rash and intense joint pain. Although rarely fatal, its high morbidity and potential for large-scale outbreaks have made it a growing concern in both endemic and emerging regions.

The ~11.8 kb CHIKV genome encodes four **non-structural proteins (nsP1–nsP4)** essential for viral replication, along with structural proteins including **capsid (C)**, **envelope glycoproteins (E1, E2, E3)**, and the 6K peptide. The E1-E2 glycoprotein complex plays a key role in viral entry and membrane fusion, and serves as a primary target for diagnostic development, vaccine design, and antiviral research.

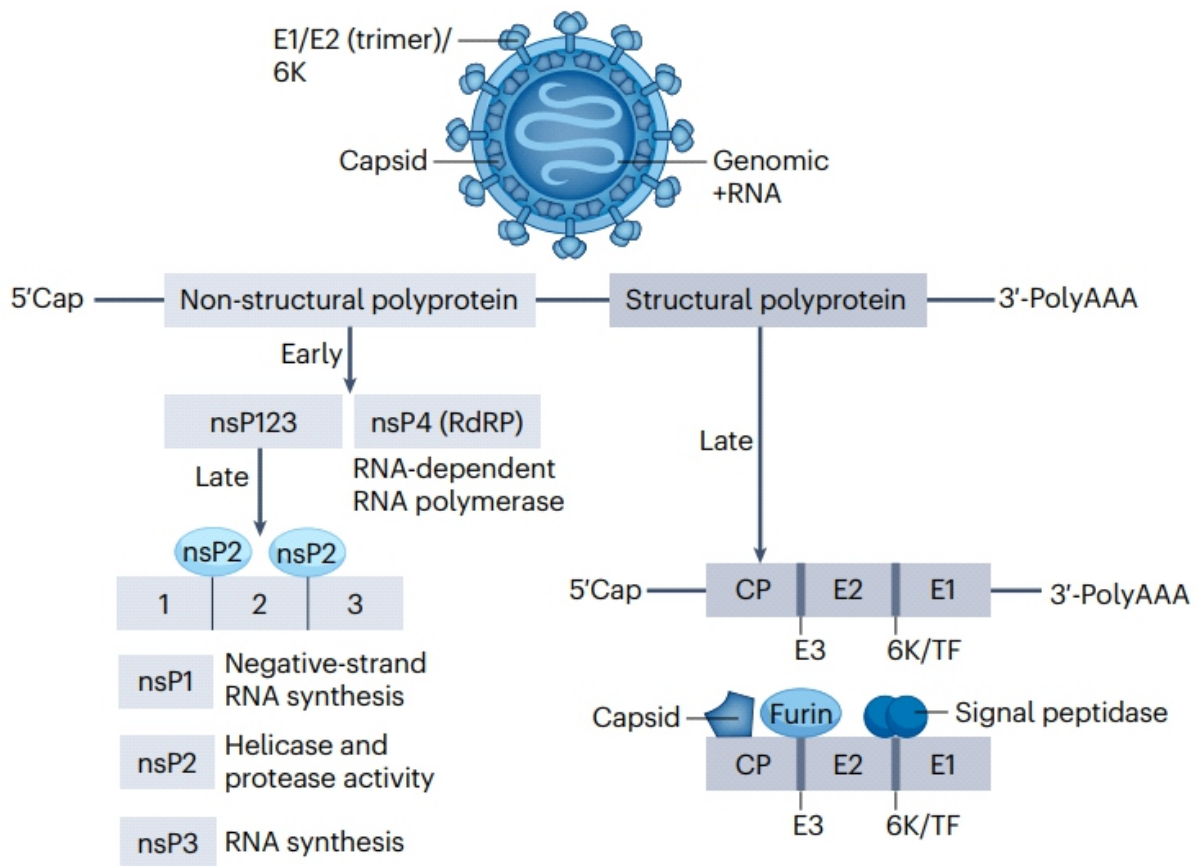


Fig.1.CHIKV Genomic Structure and Protein Expression Pathway(Adapted from Weaver et al., Nat Rev Microbiol (2025))

abinScience offers high-purity CHIKV antigens (E1, E2, NSP1-3, Capsid) and a diverse range of monoclonal, polyclonal, and VLP-specific antibodies. Validated for ELISA, WB, and SDS-PAGE, these reagents support preclinical research in diagnostics, vaccine development, and virology studies.

Protein		
Catalog No.	Product Name	Delivery time
VK425011	Recombinant CHIKV Spike glycoprotein E1 Protein, C-Fc	Spot
VK572011	Recombinant CHIKV Spike glycoprotein E2 Protein, C-Fc	Spot
VK572012	Recombinant CHIKV Spike glycoprotein E2, N-His	3 DAYS
VK572021	Recombinant CHIKV Spike glycoprotein E2 Protein, C-His	3 DAYS
VK425012	Recombinant CHIKV Spike glycoprotein E1 Protein, N-His	3 DAYS
VK640012	Recombinant CHIKV NSP2 Protein, N-GST-His	3 DAYS
VK640022	Recombinant CHIKV NPS1 Protein, N-His	3 DAYS
Antibody		
Catalog No.	Product Name	Delivery time
VK425053	Anti-CHIKV p130/Structural polyprotein Antibody (DC1.415)	Spot
VK572023	Anti-CHIKV Spike glycoprotein E2 Antibody (5M16)	Spot
VK572043	Anti-CHIKV Spike glycoprotein E2 Antibody (5F10)	Spot
VK572033	Anti-CHIKV Spike glycoprotein E2 Antibody (4J21)	Spot
VK425133	Anti-CHIKV p130/Structural polyprotein Antibody (DC2.85)	Spot
VK425123	Anti-CHIKV p130/Structural polyprotein Antibody (DC2.82)	Spot
VK425113	Anti-CHIKV p130/Structural polyprotein Antibody (DC2.74)	Spot
VK425103	Anti-CHIKV p130/Structural polyprotein Antibody (DC2.550B)	Spot
VK425153	Anti-CHIKV p130/Structural polyprotein Antibody (DC2.315)	Spot
VK425143	Anti-CHIKV p130/Structural polyprotein Antibody (DC2.112)	Spot
VK425093	Anti-CHIKV p130/Structural polyprotein Antibody (DC1.9)	Spot
VK425083	Anti-CHIKV p130/Structural polyprotein Antibody (DC1.7)	Spot
VK425073	Anti-CHIKV p130/Structural polyprotein Antibody (DC1.56)	Spot
VK425063	Anti-CHIKV p130/Structural polyprotein Antibody (DC1.55)	Spot
VK425043	Anti-CHIKV p130/Structural polyprotein Antibody (DC1.380)	Spot
VK425010	InVivoMAb Anti-Chikungunya Virus/CHIKV VLP Antibody (m242)	Spot
VK425023	Anti-CHIKV p130/Structural polyprotein Antibody (CHK152)	Spot
VK425033	Anti-CHIKV p130/Structural polyprotein Antibody (DC1.370)	Spot
VK425013	Anti-CHIKV p130/Structural polyprotein Antibody (9.8B)	Spot
VK640024	Anti-CHIKV NSP1 Polyclonal Antibody	3 DAYS
VK572014	Anti-CHIKV Spike glycoprotein E2 Polyclonal Antibody	3 DAYS
VK425014	Anti-CHIKV Spike glycoprotein E1 Polyclonal Antibody	3 DAYS

All products are for research use only



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