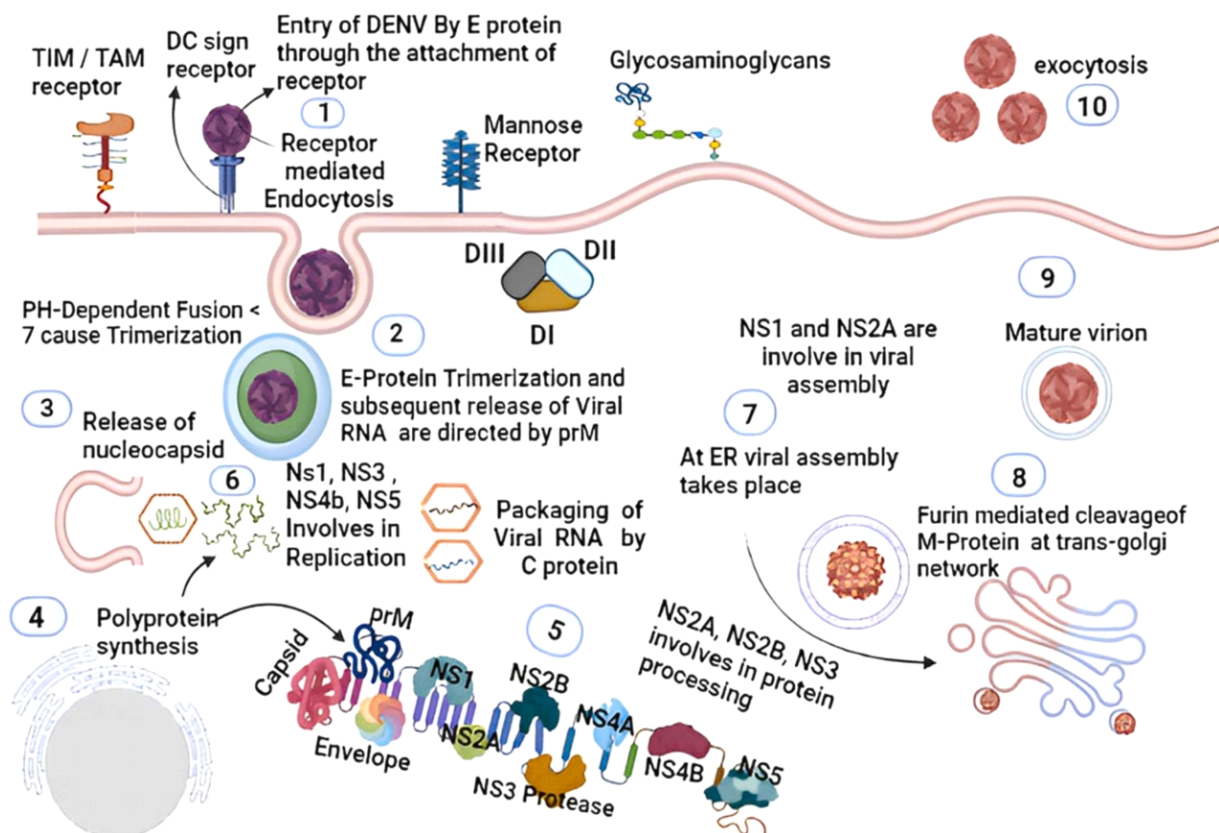


# Dengue virus (DENV)

Dengue virus (DENV) is a member of the genus *Flavivirus* within the family *Flaviviridae*. It is transmitted by *Aedes* mosquitoes and is responsible for dengue fever, dengue hemorrhagic fever, and dengue shock syndrome, all of which are associated with high morbidity and mortality rates. DENV particles are spherical in shape, with a diameter ranging from 45 to 55 nm. There are four serotypes of DENV: DENV-1, DENV-2, DENV-3, and DENV-4, with DENV-4 being less transmissible and less widespread. The DENV genome consists of a single-stranded positive-sense RNA that encodes three structural proteins: capsid (C), premembrane (prM), and envelope (E), along with seven nonstructural proteins (NS1, NS2A, NS2B, NS3, NS4A, NS4B, and NS5). The NS1 antigen, a glycoprotein among the nonstructural proteins, is present in significant quantities in the serum during the acute phase of infection and serves as an early diagnostic indicator.



| Recombinant Protein |                                                                         |                                |
|---------------------|-------------------------------------------------------------------------|--------------------------------|
| Catalog No.         | Product Name                                                            | Applications                   |
| YVV15801            | Recombinant DENV-2 NS1/Non-structural protein 1 Protein, N-His          | ELISA, Immunogen, SDS-PAGE, WB |
| YVV19905            | Recombinant DENV-1 Envelope protein E, N-His                            | ELISA, Immunogen, SDS-PAGE, WB |
| YVV19904            | Recombinant DENV-4 Envelope protein E, N-His                            | ELISA, Immunogen, SDS-PAGE, WB |
| YVV19902            | Recombinant DENV-3 Envelope protein E, N-His                            | ELISA, Immunogen, SDS-PAGE, WB |
| YVV19901            | Recombinant DENV-2 Envelope protein E, N-His                            | ELISA, Immunogen, SDS-PAGE, WB |
| YVV31501            | Recombinant DENV-1 Capsid protein C/Core protein Protein, N-GST & C-His | ELISA, Immunogen, SDS-PAGE, WB |
| YVV31601            | Recombinant DENV-2 NS3/Serine protease NS3 Protein, N-His               | ELISA, Immunogen, SDS-PAGE, WB |
| YVV25301            | Recombinant DENV-1 Protein prM/prM Protein, N-GST & C-His               | ELISA, Immunogen, SDS-PAGE, WB |
| Antibody            |                                                                         |                                |
| Catalog No.         | Product Name                                                            | Applications                   |
| RVV04001            | Anti-DENV-2 E-DII/Envelope Protein E Antibody (2A10)                    | ELISA, IHC, WB                 |
| RVV04201            | Anti-Dengue Virus NS1 antibody                                          | ELISA, WB                      |
| VVV25303            | InVivoMAb Anti-DENV2 Protein prM/prM Antibody (2H2)                     | ELISA, Neutralization          |
| RVV04002            | Anti-DENV-2 E-DII/Envelope Protein E Antibody (2A10)                    | ELISA, Neutralization          |
| VVV19902            | InVivoMAb Anti-DENV-2 Envelope protein E/EDIII (Iv0125)                 | ELISA, Neutralization          |
| VVV19901            | InVivoMAb Anti-DENV-2 Envelope protein E/EDIII (Iv0124)                 | ELISA, Neutralization          |
| RVV11701            | Anti-Dengue and Zika virus EDE1 Antibody (EDE1C10)                      | ELISA, Neutralization, WB      |
| RVV04101            | Anti-DENV-2 E-DIII antibody (1A1D)                                      | ELISA, WB                      |

All Products are for Research Use



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