

## Recombinant Zika virus flavivirus polyprotein gene protein, His & Avi-tagged, Biotinylated

Cat. No. flavivirus polyprotein gene-1824Z Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Biotinylated Zika virus NS1, His Tag is expressed from human 293 cells (HEK293). It contains AA Val 796 - Ser 1148 (Accession # ALU33341.1). Biotinylation of this product is performed using Avitag technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.

**Species** Zika

**Source** HEK293

**ProteinLength** AA Val 796 - Ser 1148

**Description** Zika virus (ZIKV) is a member of the virus family Flaviviridae and the genus Flavivirus, transmitted by daytime-active Aedes mosquitoes, such as *A. aegypti* and *A. albopictus*. Its name comes from the Zika Forest of Uganda, where the virus was first isolated in 1947. Zika virus is related to dengue, yellow fever, Japanese encephalitis, and West Nile viruses. The infection, known as Zika fever, often causes no or only mild symptoms, similar to a mild form of dengue fever. It is treated by rest. Since the 1950s, it has been known to occur within a narrow equatorial belt from Africa to Asia. As of 2016, the illness cannot be prevented by drugs or vaccines. As of February 2016, there is evidence that Zika fever in pregnant women is associated with abnormal brain development in their fetuses through mother-to-child transmission of the virus, which may result in miscarriage or microcephaly.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Predicted N Terminal</b>	Val 796
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
<b>Molecular Mass</b>	This protein carries an Avi tag at the C-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 43.3 kDa. The protein migrates as 46-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>Endotoxin</b>	Less than 1.0 EU per µg by the LAL method.
<b>Purity</b>	>90% as determined by SDS-PAGE.
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Conjugation</b>	Biotin

## GENE INFORMATION

<b>Gene Name</b>	flavivirus polyprotein gene flavivirus polyprotein [ Zika virus ]
<b>Official Symbol</b>	flavivirus polyprotein gene
<b>Synonyms</b>	flavivirus polyprotein; capsid protein C; membrane glycoprotein precursor M; envelope protein E; nonstructural protein NS1; nonstructural protein NS2A; nonstructural protein NS2B; nonstructural protein NS3; nonstructural protein NS4A;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

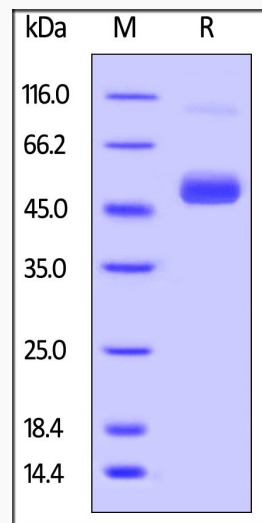
nonstructural protein NS4B; RNA-dependent RNA polymerase NS5; anchored capsid protein C; protein pr; membrane glycoprotein M; protein 2K

Gene ID [7751225](#)

Protein Refseq [YP\\_002790881.1](#)

UniProt ID [Q32ZE1](#)

#### SDS-PAGE



Biotinylated Zika virus NS1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA