

# Recombinant Japanese Encephalitis flavivirus polyprotein gene protein, His-tagged

**Cat. No.** flavivirus polyprotein gene-60E    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The E.coli derived recombinant protein contains full length Japanese Encephalitis virus ENV antigen having an Mw of 50kDa. The protein is fused to a 6 histidines tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Japanese encephalitis virus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | Japanese encephalitis previously known as Japanese B encephalitis is a virus from the family Flaviviridae. It is closely related to the West Nile virus and St. Louis encephalitis virus. Positive sense single stranded RNA genome is packaged in the capsid, formed by the capsid protein. The outer envelope is formed by envelope (E) protein and is the protective antigen. It aids in entry of the virus to the inside of the cell. The genome also encodes several nonstructural proteins also (NS1, NS2a, NS2b, NS3, NS4a, NS4b, NS5). NS1 is produced as secretory form also. NS3 is a putative helicase, and NS5 is the viral polymerase. It has been noted that the Japanese encephalitis virus (JEV) infects the lumen of the endoplasmic reticulum (ER) and rapidly accumulates substantial amounts of viral proteins for the JEV. Japanese Encephalitis is diagnosed by detection of antibodies in serum and CSF (cerebrospinal fluid) by IgM capture ELISA. |
| <b>Form</b>             | 20mM Tris-MES pH 6.5, 8M urea, 200mM NaCl and 0.05% Tween-20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 50kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | Encephalitis protein is >90% pure as determined by SDS-PAGE (coomassie staining).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

 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>Usage</b>       | The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals. |
| <b>Specificity</b> | Immunoreactive with sera of encephalitis virus infected individuals.                                                                                                           |
| <b>Storage</b>     | Encephalitis protein although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.                                                       |
| <b>Shipping</b>    | Ice Packs                                                                                                                                                                      |
| <b>Full Length</b> | Full L.                                                                                                                                                                        |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | flavivirus polyprotein gene JEV polyprotein [ Japanese encephalitis virus ]                                                                                                                                                                                                                                                                                                                                                               |
| <b>Official Symbol</b> | flavivirus polyprotein gene                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>        | flavivirus polyprotein gene; JEV polyprotein; flavivirus polyprotein; core protein C; anchored core protein anchC; membrane glycoprotein precursor prM; membrane glycoprotein M; envelope protein E; non-structural protein NS1; non-structural protein NS2a; non-structural protein NS2b; non-structural protein NS3; non-structural protein NS4a; 2K protein; non-structural protein NS4b; RNA-dependent RNA polymerase NS5; protein pr |
| <b>Gene ID</b>         | 1489713                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>  | NP_059434.1                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID</b>      | P32886                                                                                                                                                                                                                                                                                                                                                                                                                                    |

 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