

## Recombinant Dengue type 4 Envelope Protein

Cat. No. E-20D    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | This recombinant protein contains full length of Dengue type 4 envelope protein with a MW of 47.6 kDa. It is recognized by positive samples in ELISA tests.                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | DENV4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | Plays a role in virus budding by binding to the cell membrane and gathering the viral RNA into a nucleocapsid that forms the core of a mature virus particle. During virus entry, may induce genome penetration into the host cytoplasm after hemifusion induced by the surface proteins. Can migrate to the cell nucleus where it modulates host functions. Overcomes the anti-viral effects of host EXOC1 by sequestering and degrading the latter through the proteasome degradation pathway. |
| <b>Form</b>             | Affinity purified, liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 47.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>           | >95% pure by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Applications</b>     | Suitable for use in ELISA, Lateral Flow, WB, and other immune tests.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>          | Upon receipt, quick spin before open vial, aliquot and store at $\leq -20$ centigrade. Avoid multiple freeze/thaw cycles                                                                                                                                                                                                                                                                                                                                                                         |

 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

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|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Buffer</b>   | PBS, pH 7.3                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Preservative</b>     | 0.1% ProClin 300                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Full Length</b>      | Full L.                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Gene Name</b>        | POLY polyprotein [ Dengue virus 4 ]                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Official Symbol</b>  | POLY                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>         | POLY; polyprotein; polyprotein gene; capsid protein C; anchored capsid protein ancC; membrane glycoprotein precursor prM; membrane glycoprotein M; envelope protein E; nonstructural protein NS1; nonstructural protein NS2A; nonstructural protein NS2B; nonstructural protein NS3; nonstructural protein NS4A; protein 2K; nonstructural protein NS4B; RNA-dependent RNA polymerase NS5; protein pr |
| <b>Gene ID</b>          | 5075729                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>   | NP_073286                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>       | P09866                                                                                                                                                                                                                                                                                                                                                                                                |

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