

# Recombinant Full Length Human EEF1E1 Protein, GST-tagged

**Cat. No.** EEF1E1-4209HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Human EEF1E1 full-length ORF ( AAH05291, 1 a.a. - 174 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 174 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | This gene encodes a multifunctional protein that localizes to both the cytoplasm and nucleus. In the cytoplasm, the encoded protein is an auxiliary component of the macromolecular aminoacyl-tRNA synthase complex. However, its mouse homolog has been shown to translocate to the nucleus in response to DNA damage, and it plays a positive role in ATM/ATR-mediated p53 activation. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the neighboring downstream MUTED (muted homolog) gene. An EEF1E1-related pseudogene has been identified on chromosome 2. [provided by RefSeq, Dec 2010] |
| <b>Molecular Mass</b>   | 44.88 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MAAAAELSLLEKSLGLSKGNKYSAQGERQIPVLQTNNGPSLTGLTTIAAHLVKQANK<br>EYLLGSTAEKAIVQQWLEYRVTQVDGHSSKNDIHTLLKDLNSYLEDKVYLTGYNFT<br>LADILLYYGLHRFIVDLTVQEKEKYLNVSRWFCHIQHYPGIRQHLSSVVFIKNRLYTNS<br>H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                                               |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                        |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Name</b>        | EEF1E1 eukaryotic translation elongation factor 1 epsilon 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                    |
| <b>Official Symbol</b>  | EEF1E1                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>         | EEF1E1; eukaryotic translation elongation factor 1 epsilon 1; P18; eukaryotic translation elongation factor 1 epsilon-1; AIMP3; aminoacyl tRNA synthetase complex interacting multifunctional protein 3; ARS-interacting multifunctional protein 3; multisynthase complex auxiliary component p18; p18 component of aminoacyl-tRNA synthetase complex; aminoacyl tRNA synthetase complex-interacting multifunctional protein 3; |
| <b>Gene ID</b>          | 9521                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>      | NM_001135650                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>   | NP_001129122                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>              | 609206                                                                                                                                                                                                                                                                                                                                                                                                                          |

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UniProt ID

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