

## Product datasheet for PH307333

### EIF4E (NM\_001968) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | EIF4E MS Standard C13 and N15-labeled recombinant protein (NP_001959)  |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC207333   |
| Predicted MW:                         | 25.1 kDa   |
| Protein Sequence:                     | >RC207333 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MATVEPETTPTPNPPTTEEEKTESNQEVANPEHYIKHPLQNRWALWFKNDKSKTWQANLRLISKFDTVE<br>DFWALYNHIQLSSNLMPGCDYSLFKDGIPEMWEDEKNKRGGRWLITLNKQRRSDLDRFWLETLLCLIGE<br>SFDDYSDDVCGAVVNVRAKGDKIAIWTTECENREAVTHIGRVYKERLGLPPKIVIGYQSHADATKSGST<br>TKNRFVV<br><br>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV |
| Tag:                                  | C-Myc/DDK  |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method   |
| Labeling Method:                      | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine   |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3   |
| Storage:                              | Store at -80°C. Avoid repeated freeze-thaw cycles.   |
| Stability:                            | Stable for 3 months from receipt of products under proper storage and handling conditions.   |
| RefSeq:                               | <a href="#">NP_001959</a>  |
| RefSeq Size:                          | 4749   |
| RefSeq ORF:                           | 651  |
| Synonyms:                             | AUTS19; CBP; eIF-4E; EIF4E1; EIF4EL1; EIF4F  |
| Locus ID:                             | 1977   |
| UniProt ID:                           | <a href="#">P06730</a>   |



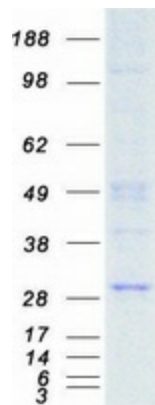
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**Cytogenetics:** 4q23

**Summary:** The protein encoded by this gene is a component of the eukaryotic translation initiation factor 4F complex, which recognizes the 7-methylguanosine cap structure at the 5' end of messenger RNAs. The encoded protein aids in translation initiation by recruiting ribosomes to the 5'-cap structure. Association of this protein with the 4F complex is the rate-limiting step in translation initiation. This gene acts as a proto-oncogene, and its expression and activation is associated with transformation and tumorigenesis. Several pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

**Protein Pathways:** Insulin signaling pathway, mTOR signaling pathway

**Product images:**



Coomassie blue staining of purified EIF4E protein (Cat# [TP307333]). The protein was produced from HEK293T cells transfected with EIF4E cDNA clone (Cat# [RC207333]) using MegaTran 2.0 (Cat# [TT210002]).