

## Product datasheet for **TP721168XL**

### EIF4E (NM\_001968) Human Recombinant Protein

#### Product data:

|                                       |                                                                                                                                                                                                                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:                         | Recombinant Proteins                                                                                                                                                                                                                                                                    |
| Description:                          | Purified recombinant protein of Human eukaryotic translation initiation factor 4E (EIF4E), transcript variant 1                                                                                                                                                                         |
| Species:                              | Human                                                                                                                                                                                                                                                                                   |
| Expression Host:                      | E. coli                                                                                                                                                                                                                                                                                 |
| Expression cDNA Clone or AA Sequence: | Met1-Val217                                                                                                                                                                                                                                                                             |
| Tag:                                  | Tag Free                                                                                                                                                                                                                                                                                |
| Predicted MW:                         | 25.1 kDa                                                                                                                                                                                                                                                                                |
| Concentration:                        | N/A                                                                                                                                                                                                                                                                                     |
| Purity:                               | >95% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                              |
| Buffer:                               | Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl                                                                                                                                                                                                     |
| Reconstitution Method:                | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH <sub>2</sub> O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| Storage:                              | Store at -80°C.                                                                                                                                                                                                                                                                         |
| Stability:                            | Stable for at least 6 months from date of receipt under proper storage and handling conditions.                                                                                                                                                                                         |
| RefSeq:                               | <a href="#">NP_001959</a>                                                                                                                                                                                                                                                               |
| Locus ID:                             | 1977                                                                                                                                                                                                                                                                                    |
| UniProt ID:                           | <a href="#">P06730</a>                                                                                                                                                                                                                                                                  |
| RefSeq Size:                          | 4749                                                                                                                                                                                                                                                                                    |
| Cytogenetics:                         | 4q23                                                                                                                                                                                                                                                                                    |
| RefSeq ORF:                           | 651                                                                                                                                                                                                                                                                                     |
| Synonyms:                             | AUTS19; CBP; eIF-4E; EIF4E1; EIF4EL1; EIF4F                                                                                                                                                                                                                                             |



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**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