

## **Product datasheet for TP301740L**

## OriGene Technologies, Inc.

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## EIF3F (NM 003754) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human eukaryotic translation initiation factor 3, subunit F (EIF3F), 1

m

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC201740 representing NM\_003754

or AA Sequence: Red=Cloning site Green=Tags(s)

MATPAVPVSAPPATPTPVPAAAPASVPAPTPAPAAAPVPAAAPASSSDPAAAAAATAAPGQTPASAQAPA QTPAPALPGPALPGPFPGGRVVRLHPVILASIVDSYERRNEGAARVIGTLLGTVDKHSVEVTNCFSVPHN ESEDEVAVDMEFAKNMYELHKKVSPNELILGWYATGHDITEHSVLIHEYYSREAPNPIHLTVDTSLQNGR MSIKAYVSTLMGVPGRTMGVMFTPLTVKYAYYDTERIGVDLIMKTCFSPNRVIGLSSDLQQVGGASARIQ DALSTVLQYAEDVLSGKVSADNTVGRFLMSLVNQVPKIVPDDFETMLNSNINDLLMVTYLANLTQSQIAL

NEKLVNL

**SGPTRTRRL**EQKLISEEDLAANDILDYKDDDDK**V** 

Tag: C-Myc/DDK
Predicted MW: 37.4 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** NP 003745





**Locus ID:** 8665

 UniProt ID:
 000303

 RefSeq Size:
 1274

 Cytogenetics:
 11p15.4

 RefSeq ORF:
 1071

**Synonyms:** eIF3-p47; EIF3S5; MRT67

**Summary:** Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required

for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation

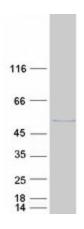
complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation

(PubMed:17581632). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or

repression (PubMed:25849773).[UniProtKB/Swiss-Prot Function]

**Protein Families:** Druggable Genome

## **Product images:**



Coomassie blue staining of purified EIF3F protein (Cat# [TP301740]). The protein was produced from HEK293T cells transfected with EIF3F cDNA clone (Cat# [RC201740]) using MegaTran 2.0 (Cat# [TT210002]).