

## Product datasheet for TP301740M

### 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), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201740 representing NM_003754 Red=Cloning site Green=Tags(s)

MATPAVPSAPPATPTVPAAAAPASVPAPTPAPAAAAPVAAAAPASSSDPAAAAAATAAPGQTPASAQAPA  
QTPAPALPGPALPGPFPGRRVRLHPVILASIVDSYERRNEGAARVIGTLLGTVDKHSVEVTNCFVPHN  
ESEDEVAVDMEFAKNMYELHKKVSPNELILGWYATGHDITEHSVLIHEYYSREAPNPIHLTVDTSLQNGR  
MSIKAYVSTLMGVPGRTMGVMFTPLTVKYAYDTERIGVDLIMKTCFSPNRVIGLSSDLQQVGGASARIQ  
DALSTVLQYAEDVLSGKVSADNTVGRFLMSLVNQVPKIVPDDFETMLNSNINDLLMVTYLANLTQSQIAL  
NEKLVNL

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

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:	<u><a href="#">NP_003745</a></u>



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Locus ID: 8665  
UniProt ID: [O00303](#)  
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-tRNA<sup>i</sup> 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]).