

## Recombinant Mouse Eif3d Protein, Myc/DDK-tagged

**Cat. No.** Eif3d-2778M    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Purified recombinant protein of mouse full-length eukaryotic translation initiation factor 3, subunit D (Eif3d), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

**Species**                      Mouse

**Source**                        HEK293

**Description**

mRNA cap-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, a complex required for several steps in the initiation of protein synthesis of a specialized repertoire of mRNAs. 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. 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. In the eIF-3 complex, EIF3D specifically recognizes and binds the 7-methylguanosine cap of a subset of mRNAs.

**Molecular Mass**            64 kDa

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	Eif3d eukaryotic translation initiation factor 3, subunit D [ Mus musculus (house mouse) ]
<b>Official Symbol</b>	Eif3d
<b>Synonyms</b>	EIF3D; eukaryotic translation initiation factor 3, subunit D; eukaryotic translation initiation factor 3 subunit D; eIF3 p66; eIF-3-zeta; translation initiation factor eIF3 p66; eukaryotic translation initiation factor 3 subunit 7; eukaryotic translation initiation factor 3, subunit 7 (zeta); Eif3s7; eIF3p66; 66/67kDa; AA407891; MGC115774
<b>Gene ID</b>	55944
<b>mRNA Refseq</b>	NM_018749
<b>Protein Refseq</b>	NP_061219
<b>UniProt ID</b>	O70194

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