

## Product datasheet for PH300612

### EIF3B (NM\_001037283) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	EIF3B MS Standard C13 and N15-labeled recombinant protein (NP_001032360)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200612
Predicted MW:	92.5 kDa
Protein Sequence:	>RC200612 protein sequence Red=Cloning site Green=Tags(s)

MQDAENVAVPEAAEERAEPGQQPAAEPPPAEGLLRPAGPGAPEAAGTEASSEEVGIAEAGPEPEVRTEP  
AAEAEAASGPSESPSPAAEELPGSHAEPVPAQGEAPGEQARDERSDSRAQAVSEDAAGNEGRAAEAE  
RALENGDADEPSFSDPEDFVDDVSEEELLDVLRKDRPQADGIDSVIVVDNVPQVGPDRLEKLNVIHKI  
FSKFGKITNDFYPEEDGKTKGYIFLEYASPAHAVDAVKNADGYKLDKQHTFRVNLFTDFDKYMTISDEWD  
IPEKQPFKDLGNLRYWLEEAECRDQYSVIFESGDRTSIFWNDVKDPVSIIEERARWTETYVRWSPKGTyla  
TFHQRGIALWGGEKFKQIQRFHQGVQLIDFSPCERYLVTFSPMLDTQDDPQAI IWDILTGHKRGFHC  
ESSAHWPIFKWSDGKFFARMTLDTLSIYETPSMGLLDKSLKISGKDFSWSPGGNIIAFWVVPEDKDIP  
ARVTLMQLPTRQEI RVRNLFNVVDCKLHWQKNGDYL CVKVDRTPKGTQGVVTNFEIFRMREKQVPVDVVE  
MKETIIAFAWEPNGSKFAVLHGEAPRISVSFYHVKNNGKIELIKMFDKQANTIFWSPQGQFVVLAGLRS  
MNGALAFVDTSDCTVMNIAEHYMASDVEWDPTGRYVVTSVSWWSHKVDNAYWLWTFQGRLLQKNNKDRFC  
QLLWRPRPPTLLSQEQIKQIKKDLKKYSKIFEQKDRLSQSKASKELVERRRTMMEDFRKRYRMAQEL YME  
QKNERLELRGGVDTDELDSNVDDWEEETIEFFVTEEIIPLGNQE

SGPTRTRPLEQKLI 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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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_001032360</a>

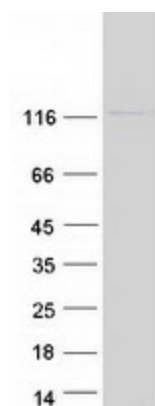


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RefSeq Size:	3084
RefSeq ORF:	2442
Synonyms:	EIF3-ETA; EIF3-P110; EIF3-P116; EIF3S9; PRT1
Locus ID:	8662
UniProt ID:	<a href="#">P55884</a> , <a href="#">A0A024R821</a>
Cytogenetics:	7p22.3

**Summary:** RNA-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:9388245, 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:9388245, 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]

### Product images:



Coomassie blue staining of purified EIF3B protein (Cat# [TP300612]). The protein was produced from HEK293T cells transfected with EIF3B cDNA clone (Cat# [RC200612]) using MegaTran 2.0 (Cat# [TT210002]).