

## Product datasheet for **TP311093**

### EIF3B (NM\_003751) Human Recombinant Protein

#### Product data:

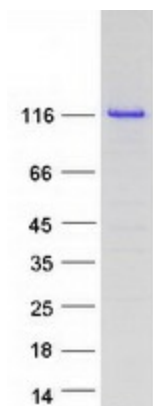
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human eukaryotic translation initiation factor 3, subunit B (EIF3B), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211093 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MQDAENVAVPEAAEERAEPGQQQPAAEPPPAEGLLRPAGPGAPEAAGTEASSEEVGIAEAGPEPEVRTEP AAEAEAASGPSESPSPAAEELPGSHAEPVPAQGEAPGEQARDERSDSRAQAVSEDAGGNEGRAAEAEAP RALENGDADEPSFSDPEDFVDDVSEEELLGDVLKDRPQADGIDSVIVVDNVPQVGPDRLEKLNVIHKI FSKFGKITNDFYPEEDGKTKGYIFLEYASPAHAVDAVKNADGYKLDKQHTFRVNLFTDFDKYMTISDEWD IPEKQPFKDLGNLRYWLEEAECRDQYSVIFESGDRTSIFWNDVKDPVSIERARWTETYVRWSPKGYLA TFHQRGIALWGGGEKFKQIQRFHQGVQLIDFSPCERYLVTFSPMLMDTQDDPQAIWIDILTGHKKRGFHC ESSAHWPIFKWSDGKFFARMTLDTLSIYETPSMGLLDKSLKISGKIDFSWSPGGNIIAFVWPEDKDIP ARVTLMQLPTRQEIRVRNLFNVVDCKLHWQKNGDYLCVKVDRTPKGTQGVVTNFEIFRMREKQVPVDVVE MKETIIAFAWEPNGSKFAVLHGEAPRISVSFYHVKNNGKIELIKMFDKQANTIFWSPQGQFVLAGLRS MNGALAFVDTSDCTVMNIAEHYMASDVEWDPTGRYVVTSVSWWSHKVDNAYWLWTFQGRLLQKNNKDRFC QLLWRPRPTLLSQEQIKQIKKDLKKYSKIFEQKDRLSQSKASKELVERRRMMEDFRKYRKMAQELYME QKNERLELRGGVDTDELDSNVDDWEEETIEFFVTEEIIPLGNQE</p> <p><b>SGP</b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	92.3 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.



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<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>RefSeq:</b>	<a href="#">NP_003742</a>
<b>Locus ID:</b>	8662
<b>UniProt ID:</b>	<a href="#">P55884</a> , <a href="#">A0A024R821</a>
<b>RefSeq Size:</b>	3009
<b>Cytogenetics:</b>	7p22.3
<b>RefSeq ORF:</b>	2442
<b>Synonyms:</b>	EIF3-ETA; EIF3-P110; EIF3-P116; EIF3S9; PRT1
<b>Summary:</b>	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-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: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# TP311093). The protein was produced from HEK293T cells transfected with EIF3B cDNA clone (Cat# [RC211093]) using MegaTran 2.0 (Cat# [TT210002]).