

Product datasheet for **SC319389**

EIF3B (NM_001037283) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF3B (NM_001037283) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF3B
Synonyms:	EIF3-ETA; EIF3-P110; EIF3-P116; EIF3S9; PRT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001037283.1
CGGAGCCCTGCGAGTAGGCAGCGTTGGGCCCATGCAGGACGCGGAGAACGTGGCGGTGCC
CGAGGCGGCCGAGGAGCGCGCCGAGCCCGGCCAGCAGCAGCCGGCCGCGAGCCGCGCC
AGCCGAGGGGCTGCTGCGGCCCGCGGGGCCCGCGCTCCGGAGGCCGCGGGGACCGAGGC
CTCCAGTAGGAGGTGGGATCGCGGAGGCCGGCCGGAGCCGAGGTGAGGACCGAGCC
GGCGGCCGAGGCAGAGGCGGCCCTCCGGCCCGTCCGAGTCGCCCTCGCCGCGGCCGCGCA
GGAGCTGCCGGGTGCGATGCTGAGCCCCCTGTCCCGGCACAGGGCGAGGCCCGCCAGGAGA
GCAGGCTCGGGACGAGCGCTCCGACAGCCGGGCCAGGCGGTGTCGAGGACGCGGGAGG
AAACGAGGGCAGAGCGGCCGAGGCCGAACCCCGGGCGCTGGAGAATGGCAGCGGACGA
GCCCTCCTTCAGCGACCCCGAGGACTTCGTGGACGACGTGAGCGAGGAAGAATTACTGGG
AGATGTACTCAAAGATCGGCCAGGAAGCAGATGGAATCGATTCCGGTATTGTAGTGGA
CAATGTCCCTCAGGTGGACCCGACCGACTTGAGAACTCAAAAATGTCATCCACAAGAT
CTTTTCCAAGTTTGGGAAAATCACAAATGATTTTTATCCTGAAGAGGATGGGAAGACAAA
AGGGTATATTTTCTGGAGTACGCGTCCCCTGCCACGCTGTGGATGCTGTGAAGAACGC
CGACGGCTACAAGCTTGACAAGCAGCACACATTCCGGGTCAACCTCTTTACGGATTTTGA
CAAGTATATGACGATCAGTGACGAGTGGGATATCCAGAGAAAACAGCCTTTCAAAGACCT
GGGAACTTACGTTACTGGCTTGAAGAGGCAGAATGCAGAGATCAGTACAGTGTGATTTT
TGAGAGTGGAGACCGCACTTCCATATTCTGGAATGACGTAAAAGACCCTGTCTCAATTGA
AGAAAGAGCGAGATGGACAGAGACGATGTGCGTTGGTCTCCTAAGGGCACCTACCTGGC
TACCTTTTCATCAAAGAGGCATTGCTCTATGGGGGGGAGAGAAATCAAGCAAATTCAGAG
ATTCAGCCACCAAGGGGTTGAGTATTGACTTCTCACCTGTGAAAGGTACCTGGTGAC
CTTTAGCCCCCTGATGGACACGAGGATGACCCCTCAGGCCATAATCATCTGGGACATCCT
TACGGGGCACAAGAAGAGGGGTTTTCACTGTGAGAGCTCAGCCATTGGCCTATTTTTAA
GTGGAGCCATGATGGCAAATTTTCCGAGAATGACCCTGGATACGCTTAGCATCTATGA
AACTCCTTCTATGGGTCTTTTGGACAAGAAGATTTGAAGATCTCTGGGATAAAAAGACTT
TTCTTGGTCTCCTGGTGAACATAATCGCCTTCTGGGTGCCTGAAGACAAAAGATATTCC
AGCCAGGGTAACCCTGATGCAGCTCCCTACCAGGCAAGAGATCCGAGTGAGGAACCTGTT
CAATGTGGTGGACTGCAAGCTCCATTGGCAGAAGAACGGAGACTACTTGTGTGTAAGT
AGATAGGACTCCGAAAGGCACCCAGGGTGTGTCACAAATTTTGAATTTTCCGAATGAG
GGAGAAAACAGGTACCTGTGGATGTGGTGCAGATGAAAGAAACCATCATAGCCTTTGCCTG
GGAACCAATGGAAGTAAGTTTGTGTGCTGCACGGAGAGGCTCCGCGGATATCTGTGTC
TTTCTACCACGTCAAAAACAACGGGAAGATTGAACTCATCAAGATGTTCCACAAGCAGCA
GGCGAACACCATCTTCTGGAGCCCCAAGGACAGTTTCGTGGTGTGGCGGGCCTGAGGAG
TATGAACGGTGCCTTAGCGTTTGTGGACACTTCGGACTGCACGGTTCATGAACATCGCAGA
GCACTACATGGCTTCCGACGTGCAATGGGATCCTACTGGGCGCTACGTGTCACCTCTGT
GTCCTGGTGGAGCCATAAGGTGGACAACCGTACTGGCTGTGGACTTCCAGGGACGCT
CCTGCAGAAGAACAACAAGGACCGCTTCTGCCAGCTGCTGTGGCGGCCCGGCCCTCCAC
ACTCCTGAGCCAGGAACAGATCAAGCAAATTAAGGATCTGAAGAAATACTCTAAGAT
CTTTGAACAGAAGGATCGTTTGGAGTCAGTCCAAAGCCTCAAAGGAATTGGTGGAGAGAAG
GCGCACCATGATGGAAGATTTCCGGAAGTACCGGAAAATGGCCCAGGAGCTCTATATGGA
GCAGAAAAACGAGCGCCTGGAGTTGCGAGGAGGGTGGACACTGACGAGCTGGACAGCAA
CGTGGACGACTGGGAAGAGGAGACCATTGAGTCTTTCGTAAGAAATCATTCCCT
CGGGAATCAGGAGTGACCTGGAGCACTGTGCGCAGCCGTGTGTGCTGTGGAGCCGAGGCC
GTCCTGCAGGAAGCCGCTGACTCCCGCCTCCTCCTGTGCTCTCTGGCTCTGGACTGTG
ACTGCGCCTGGATTCTGCCATTGCGACACTTAGCGACGCCACTGGCGGCACCTTCTCCTG
CGCCAGTGATGTTTCCACGGTGCCTGTACACAGCCGAGCAGCATTTCCGTTGAAGGACT
TGCATCCCATTGCGGGCAGTGTGGACGTGTCCCGGAGACCCACCGGGAGGGCGCCGCC
ATGCCCTGTACCCCCACCGTGCAGGTTGTGGCCGTTTTTCTCCGAGGTTGAACATGGAA
ATAAAAAGCAAACCTGTATGAAAAA
    
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Restriction Sites:

Please inquire

ACCN:	NM_001037283
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001037283.1 , NP_001032360.1
RefSeq Size:	3084 bp
RefSeq ORF:	2445 bp
Locus ID:	8662
UniProt ID:	P55884
Cytogenetics:	7p22.3

Gene 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-tRNA_i 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]

Transcript Variant: This variant (2) represents the longest transcript. Variants 1, 2 and 3 encode the same isoform (1).