

Product datasheet for **RN211383**

Eif3b (NM_001031640) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif3b (NM_001031640) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Eif3b
Synonyms:	Eif3s9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN211383 representing NM_001031640
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGGACGCTGAGAACGTGGCGGCGCCGAGGCGGCCGAGGAGCGGGCCGAGCCCGAGGCAGCAGC
 CGGTCTCCGAGTACCGCCGACGACGAGGCGGCAGGGTCTGGCGGTCCGAAGTGGGGCGGACGGAAGA
 CGCCGAGGAAGACGCGGAGGCCAGACCGGAGCCGAGGTGAGGGCCAAGCCGGCGCCAAATCCGAAGAG
 GAAACGGCGGCGAGTCCGGCCGCTCGCCACGCGCAGTCGGCGCAGGAGCCCTCTGCTCCCGGAAGG
 CGGAGGCCGGGAGAGCAGGCCAGGCACCCCTCGGCTAGAGCGGAGGAGGGCGGGTCCGATGGGAG
 CGCGGCCGAGGCGGAGCCGCGGGCTCTGGAGAACGGAGAGGCAGATGAGCCCTCTTCAGCGACCCCGAG
 GATTCGTAAGACGACGTGAGCGAGGAAGAACTACTTGGTGTACTCAAAGATCGGCCCTCAGGAAGCGG
 ATGGGATTGACTCGGTGATTGTTGTAGACAACGTTCTCAGGTGGGACCCGACCGCTTGAGAAGCTCAA
 AAATGTATCCACAAGATCTTCTCAAGTTTGGGAAAATCATAAATGACTATTACCTGAAGAGGATGGA
 AAGACGAAAGGGTACATCTTCTGGAATATGCTTCTCCGCCCATGCTGTGGATGCTGTGAAAAATGCAG
 ATGGATACAAGCTGGACAAGCAGCACACGTTCCGGGTCAACCTCTTCACTGATTTTGATAAGTACATGAC
 CATCAGTGACGAGTGGGACATCCAGAGAAGCAGCCTTTCAAAGACCTGGGCAATCTGCGCTATTGGCTG
 GAAGAGGCAGAGTGTAGAGATCAGTACAGTGTGATTTTGGAGCGGAGACCCGGACATCCATCTTCTGGA
 ATGACGTCAAGGACCCAGTCTCAATCGAAGAAAGAGCGAGATGGACAGAGACATATGTGCGCTGGTCCCC
 TAAGGGCACCTACCTGGCCACCTCCATCAGCGGGGTATCGCCCTCTGGGAGGGGACAAGTTCAAGCAG
 ATCCAGAGGTTTACGCCACCAAGGCGTGCAGTCTCGATTTCTCACCTTGTGAAAGATACCTGGTGACTT
 TCAGCCCACTGATGGACACTCAGGATGACCCCTCAGGCCATCATTATCTGGGACATCCTCACAGGCATAA
 GAAGAGAGGTTTTCACTGTGAAAGCTCAGCCACTGGCCCATCTTCAAGTGGAGCCATGATGGCAAATTC
 TTTGCAAGAATGACCCTGGATACCTTAGCATCTATGAAACACCTTCATGGGCCTTTTGGACAAGAAGA
 GCTTGAAGATCTCTGGAATAAAAGACTTTTCTGGTCTCCGGGTGGTAACATCATTGCCTTTTGGGTGCC
 AGAAGACAAGATATTCCAGCCAGGGTACCCTGATGCAGCTCCCCACCAGACAGGAGATCCGAGTGAGG
 AATTTGTTCAATGTGGTTGATTGCAAGCTGCACTGGCAGAAAAATGGAGATTACCTGTGTGTAAGTGG
 ACAGGACTCCAAAAGGCACACAGGGAGTTGTACAAAATTTGAAATCTTCCGAATGAGGGAGAAGCAGGT
 TCCTGTTGACGTTGTTGAGATGAAAGAGACCATCATAGCCTTTGCCTGGGAACCCAAATGGCAGTAAGTT
 GCTGTGCTTCATGGTGGGCCCCCTCGGATATCTGTCTCCTTCTACCACGTAAGAGCAATGGGAAGATTG
 AACTCATCAAGATGTTTGACAAGCAGCAAGCCAATACCATCTTCTGGAGTCCCCAGGGGAGTTCGTGGT
 ACTGGCCGGGCTGAGGAGCATGAATGGCGCCTTGGCGTTTGTGCGACACTCAGACTGCACCGTCATGAAC
 ATTGACAGGACTACATGGCCTCCGACGTCGAATGGGACCCAACCTGGCCGCTATGTGGTTACCTCTGTGT
 CGTGGTGGAGCCATAAGGTGGACAATGCTTATTGGCTGTGGACCTTCAAAGGTCGCTTCTCCAGAAGAA
 CAACAAGGACCGCTTCTGCCAGCTGCTCTGGAGACCAAGGCCCAACACTCCTCAGTCAGGATCAGATA
 AAGCAAATTAAGGATCTGAAGAAACTCTAAGATCTTTGAGCAGAAGGATCGCTTGAGCCAGTCCA
 AAGCTTCAAAGGAAGTGGTGGAAAGAAGCGGACCATGATGGAGGACTTCAGGCAATACCGAAAAATGCC
 CCAGGAAGTCTATATGAAGCAGAAGAACGAGCGTCTAGAGCTACGGGGAGGGGTGGACACTGACGAGCTG
 GACAGCAACGTGGATGACTGGGAGGAAGAGACCATTGAGTTTTTGTCACTGAAGAGGTCATTCTCTG
 GAAGTCAGGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001031640
Insert Size: 2394 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001031640.1 , NP_001026810.1
RefSeq Size:	2948 bp
RefSeq ORF:	2394 bp
Locus ID:	288516
UniProt ID:	Q4G061
Cytogenetics:	12q11
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. 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. 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.[UniProtKB/Swiss-Prot Function]