

Product datasheet for **MC205849**

Eif3b (NM_133916) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Eif3b (NM_133916) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Eif3b |
| Synonyms: | AL033316; AL033334; AL033369; AW208965; D5Wsu45e; EIF3-ETA; EIF3-P110; EIF3-P116; Eif3s9; PRT1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >BC031704
 GCGGCCGAGCCGGGTGAGAAGCAGCGCGGGCCCATGCAGGACGCTGAGAACGTGGCGGTGCCGAGGCGG
 CCGAGGAGCGGGCTGAGCCCGCAGGACAGCAGCCGGCCTCCGAGTCGCCGCCGACGGACGAGGCGGCAGG
 GTCTGGGGGGTCCGAAGTGGGGCAGACGGGAAGACGCCGAAGAAGACGCCGAGGCCGGACCGGAGCCCGAA
 GTGAGGGCCAAGCCGGCGGCCAATCCGAAGAGAAACGGCGACGAGTCCGGCCGCTCGCCACGCCGC
 AGTCGGCGGAGCGGTCCCGCTCGCAGGACCCCTGCTCCCGGAAGGCAGAGGCCGTTGGCGAGCAGGC
 CCGGGGGCACCCCTCGGCTGGAGCGGAGGAGGAGGGCGGGTCTGATGGGAGCGCGGCTGAGCGGGAGCCG
 CCGGCTCTGGAGAACGGAGAGGCAGATGAGCCCTCCTTCAGCGACCCCGAGGATTCGTAGACGACGTGA
 GCGAGGAAGAAGTACTTGGTGATGACTCAAAGATCGGCCTCAGGAAGCGGACGGGATTGACTCGGTGAT
 TGTTGTAGACAACGTCCCTCAGGTGGGGCCAGACCGACTTGAGAACTCAAAAATGTCATCCACAAGATC
 TTCTCAAAGTTTGGGAAAATCATAAATGACTATTACCCTGAGGAGGACGGAAAGACGAAAGGGTACATCT
 TTCTGGAGTACGTTCTCCCGCCATGCTGTGGATGCTGTGAAAAACGCCGATGGCTACAAGCTGGACAA
 GCAGCACACGTTCCGGGTCAACCTTTCCACCGACTTTGACAAGTACATGACGATCAGCGATGAGTGGGAC
 ATTCAGAGAAGCAGCCTTTCAAAGACCTGGGCAATTTGCGTTACTGGCTGGAAGAGGCAGAGTGTAGAG
 ATCAGTACAGTGTGATTTTTGAGAGCGGAGACCGGACGTCCATCTCTGGAATGACGTCAAGGACCCAGT
 CTAATTTGAAGAAAGAGCGAGATGGACAGAGACGTACGTGCGCTGGTCCCTAAGGGTACCTACCTGGCC
 ACTTTCCATCAGCGGGGTATCGCCCTCTGGGGAGGGGACAAGTTCAAGCAGATTAGAGGTTTCAGCCACC
 AAGCGTGCAGCTCATCGACTTCTCCTGTGAAAGATACTTGGTAACGTTTCAGCCCTCTGATGGACAC
 TCAGGATGACCCTCAGGCCATCATCTCTGGGACATCCTCACGGGCCATAAGAAGAGAGGTTTTCACTGC
 GAAAGCTCAGCCCACTGGCCATCTTCAAGTGGAGCCATGATGGCAAATCTTTGCAAGAATGACCTGG
 ATACTCTTAGCATCTATGAAACACCTTCCATGGCCCTTTGGACAAGAAGAGTTTGAAGATCTCTGGAAT
 TAAAGATTTTCTTGGTCTCCGGTGGTAAACATCATTGCTTTTTGGTGCCTGAAGACAAAGATATTCCA
 GCCAGGGTGACCCTGATGCAGTCCCCACCAGACAGAGATCCGAGTGAAGAAATTTGTTCAATGTGGTTG
 ATTGCAAGCTGCACTGGCAGAAAAATGGAGATTACCTATGTGTAAGTGGACAGGACTCCGAAAGGCAC
 ACAGGGAGTTGTCAAAAATTTGAAATATTCCGAATGAGGGAGAAGCAGGTACCTGTTGATGTTGTGAG
 ATGAAAGAAACCATCATAGCCTTTGCTGGAAACCAATGGCAGTAAGTTTGCCTGCTTCATGGTGAAG
 CCCCTCGGATCTCTGTCTCCTTACCACGTGAAGAGCAACGGGAAGATTGAACTCATCAAGATGTTTGA
 CAAGCAGCAAGCCAACACCATCTCTGGAGTCCCAGGGGCGAGTTCGTGGTGTGGCCGGGCTGAGGAGC
 ATGAACCGTGCCTTGGCGTTTGTGACACTTCAGACTGCACCGTCATGAACATTGCAGAGCACTACATGG
 CCTCCGATGTTGAATGGGACCAACTGGCCGCTACGTGGTTACCTCTGTGTCGTGGTGGAGCCACAAGT
 GGACAATGCTTACTGGCTGTGGACCTTCAAGGTGCGCTTCTGCAGAAGAACAACAAGGACCGCTTCTGC
 CAGCTGCTCTGGAGACCAAGGCCCAACTCCTCAGCCAGGATCAGATAAAGCAAATTAAGGATC
 TGAAGAAGTACTCCAAGATCTTTGAGCAGAAGGATCGCTTGAGCCAGTCCAAAGCTTCAAAGGAAGTGGT
 GGAAAGAAGGCGGACCATGATGGAGGACTTCCGGCAATACCGGAAAATGGCCAGGAACTTACATGAAG
 CAGAAGAACGAGCGTCTAGAGCTACGAGGAGGGGTGGACTGACGAGCTGGACAGCAACGTGGATGACT
 GGGAGGAAGAGACCATTGAGTTTTTGTACCCGAGGAAGTCATTCCTCTGGGAAGTCAGGAGTGAATCTCA
 GCACTGTGTGTACCCGTGCCGTGCCAGGATCCGAGGCCACCTTACGGCGAGCCTCGTGTGGGCTCT
 TACCTGTGCTTTCTTGTCTGGACTGCGAGTGCACCCAGGGTTCTTCTATCCCGACACAGCTCTGTGCC
 TCAGCCCCAGGTCCACAGCGGGGACACTGAGCCTCTGCTCTCACCTTGCCTGTTTGGGTTTTTATCAG
 CCGTGTCTGCATTGGAGCCTCACTGCAGTGTTCCTGGTGGCTCCTTAACTCCTGCTGTCCATGGG
 GTTCCAGAGCCTTACCTACAGCTCAGTGGGGTTTTCCATTACCGACTTGTGTTCTGTGGGCCAGTG
 TCGTGTGGCCTGGAGACCATCAGGAGTCTGCACACCCACCACTTACTTGTGCCAGAACTCTGGAGGCAC
 CCACACCTCCACCTGTTAGGTTGTGGCAGCCTCTGTGCAGGTTGGATGTGAAATAAAGCAACCCTG
 TGTGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI
ACCN: NM_133916
Insert Size: 2412 bp

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| 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: | BC031704 , AAH31704 |
| RefSeq Size: | 2962 bp |
| RefSeq ORF: | 2412 bp |
| Locus ID: | 27979 |
| UniProt ID: | Q8JZQ9 |
| Cytogenetics: | 5 78.97 cM |
| 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] |