

## Product datasheet for MC223983

### Eif5b (NM\_198303) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Eif5b (NM\_198303) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Eif5b  
**Synonyms:** A030003E17Rik; BC018347; IF2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223983 representing NM\_198303  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGGGAAGAAACAGAAAAACAAGAGCGAAGACAGTACCAAGGATGATACTGATTTGGGCGCCTTGCTG  
 CAGAAATAGAAGGAGCTGGTGTGCCAAGGAGCAGGAGCCTCAGAAGTCAAAGGGAAAGAAGAAAAAGGA  
 GAAAAAGAAACAAGACTTTGATGAGAACGACATTCTGAGAGAGCTGGAGGAGTTGTCTCTGGAAGCCAA  
 GGCATCAGAGCTGACAGAGACGCCGCTGCAGTCAAGCCTACAGAAAAAATGAAGAAGAATCTGCCTCAA  
 AACAAAGATAAAAAGAAGAAGGGACAAAAAGGCAAGAAAAACAAGTTTTGATGAGAATGATAGTGAAGAATT  
 GGAAGATAAAGATTCAAAGTCAAAAAAGACTGCCAGACCTAACTCAGAGGCACCCCTTTCTGGGAGTGAG  
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 TGGTGGTGAAGTCCGATGAATTTTGCAGTCCAGAAAAGGACAGAAAAAATCAGAAGAACAAGTCCGTT  
 CCTACCGTAGACAGTGGGAATGAGGACGATGACTCTTCTTCAAATTAAGACGGTGGCCAGAAGAAGG  
 CAGAAAAGAAAGAGCGCGAGAAGAAAAAGAGAGATGAAGAGAAAGCGAAGTTGCGGAAGATGAAGGAGAA  
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 CCAGAGGAAGAGGAAGACACCGAAGATGCTGGCTTAGATGACTGGGAGGCTATGGCCAGTGATGAGGAGA



GAGAAAAAGAAGGAAATATGATTACATAGAAGTAGAAGAAAACCTGAGGAAGAAGAAGAGGAAGAAGA  
 AGAGGAGGAGGAAGAAGAGAGTGAAGATGAAGAAGAGGAAGGGGACAGTGAAGGCAGCGATGGGGACGAG  
 GAGGACTGCAAGCTGTCGGATGAGAAGGACTCAGGGAAGGCTGGAGACACGAAGCCCAGCAAAGACGCTA  
 GCTCAGACTCCGAGTACGACTCCGACGACGATCGGACTAAAGAAGAGCGGGCGTACGACAAAAGCGAAACG  
 GAGGATTGAGAAACGACGACTTGAACATGGTAAAAATGTAATACAGAAAAGCTGAGAGCCCCTATCATC  
 TGTGTGCTTGGACATGTAGACACAGGAAAGACAAAAATTCTAGATAAGCTCCGTCACACACATGTGCAAG  
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 ATGTTGAGCAAGAGGCTTGCACACTGTGAAGAGCTGAGAGCACAAGTCATGGAGTTAAAGCTCTCCCAG  
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 TGGAGTAGAAGGGCCATTGTCACCTCAGATTCCAGGCCTCCTTTTACCTCCTCTATGAAGGAATTACGT  
 GTGAAGAACCAATATGAAAAGCATAAAGAAGTGGAAAGCGCCAGGGAGTAAAGATTCTTGGGAAAGACC  
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 TGAATTGATCCATGAGTTAAAGCAGACACTAAATGCTATCAAACCTAGAAGAAAAAGGAGTTTATGTCCAG  
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 AACAAAAACAAGAAGAAATTTAAGCACATAGCAGTATTTCCCTGCAAGATGAAAATCCTCCCTCAATACAT  
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 TGGATGTTGCAAAAAAGGACAAGAGGTCTGTGTCAAAAATAGAACCTATCCCTGGGGAATCTCCCAAAAT  
 GTTTGGGAGACATTTTGAAGCTACAGATATACTTGTGCAAGATCAGCCGGCAGTCCATCGATGCACTC  
 AAAGACTGGTTTCCAGACGAAATGCAGAAGAGTACTGGCAGCTTATTGTGGAGCTGAAGAAAGTATTTG  
 AAATCATCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_198303
- Insert Size:** 3651 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:**

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\\_198303.2](#), [NP\\_938045.2](#)

**RefSeq Size:** 7797 bp

**RefSeq ORF:** 3651 bp

**Locus ID:** 226982

**UniProt ID:** [Q05D44](#)

**Cytogenetics:** 1 B

**Gene Summary:** Plays a role in translation initiation. Translational GTPase that catalyzes the joining of the 40S and 60S subunits to form the 80S initiation complex with the initiator methionine-tRNA in the P-site base paired to the start codon. GTP binding and hydrolysis induces conformational changes in the enzyme that renders it active for productive interactions with the ribosome. The release of the enzyme after formation of the initiation complex is a prerequisite to form elongation-competent ribosomes.[UniProtKB/Swiss-Prot Function]