

Product datasheet for **SC119269**

EIF4B (NM_001417) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF4B (NM_001417) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF4B
Synonyms:	EIF-4B; PRO1843
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >OriGene ORF within SC119269 sequence for NM_001417 edited (data generated by NextGen Sequencing)

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ATGGCGGCCTCAGCAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTTT
CTGGCTGAGGATGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACAGTCAGCTGG
GCTGATGAAACGGATGACCTGGAAGGAGATGTTTCGACCACTTGGCACAGTAACGATGAC
GATGTGTATAGGGCGCCTCCAATTGACCGTTCATCCTTCCCACCTGCTCCACGGGTGCT
CGGAACCCAATATCGACCGGAGCCGTCTTCCAAATCGCCACCCTACACTGCTTTTCTA
GGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATCTTTCGAGGATTAAT
ATCAGTGCAGTGCCTTACCACGTGAACCCAGCAATCCAGAGAGTTGAAAGTTTTGGT
TATGCTGAATTTGAGGACCTGGATTCCCTGCTCAGTGCCTGAGTCTCAATGAAGAGTCT
CTAGGTAACAGGAGAATTCGAGTGGACGTTGCTGATCAAGCACAGGATAAAGACAGGGAT
GATCGTTCTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGATACAGACTGGAGG
GCTCGTCTGCTACAGACAGCTTTGATGACTACCCACCTAGAAGAGGTGATGATAGCTTT
GGAGACAAGTATCGAGATCGTTATGATTCAGACCGGTATCGGGATGGGTATCGGGATGGG
TATCGGGATGGCCACGCGGGATATGGATCGATATGGTGGCCGGGATCGCTATGATGAC
CGAGGCAGCAGAGACTATGATAGAGGCTATGATCCCGGATAGGCAAGTGGCAGAAGAGCA
TTTGGCAGTGGGTATCGCAGGGATGATGACTACAGAGGAGGCGGGACCGCTATGAAGAC
CGATATGACAGACGGGATGATCGGTGCTGGAGCTCCAGAGATGATTACTCTCGGGATGAT
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GGAAGTGAGTCATCACAACCTGGGACCTCCACCACATCTAGCAGAAATGCACGAAGGAGA
GAGAGTGAGAAGTCTCTAGAAAATGAAACACTCAATAAGGAGGAAGATTGCCACTCTCCA
ACTTCTAAACCTCCCAAACCTGATCAGCCCCTAAAGGTAATGCCAGCCCCTCCACCAAAG
GAGAATGCTTGGGTGAAGCGAAGTTCTAACCTCCTGCTCGATCTCAGAGCTCAGACACA
GAGCAGCAGTCCCCTACAAGTGGTGGGGAAAAGTAGCTCCAGCTCAACCATCTGAGGAA
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AGGAAAGATGGCAAAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAG
GAAAATCCAGCTTCYAAGTTCAGTTCTGCAAGCAAGTATGCTGCTCTCTGTTGATGGT
GAAGATGAAAATGAGGGAGAAGATTATGCCGAATAG
```

Clone variation with respect to NM_001417.4
1755 c=>y

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001417 unedited
NGGCGTGCATATTTGTATACGACTCATATAGGCGGCNCGCAATTCGCACGAGGCTCCC
AACATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGAC
TTTCTGGCTGAGGATGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGC
TGGGCTGATGAAACGGATGACCTGGAAGGAGATGTTTCGACCCTGGCACAGTAACGAT
GACGATGTGATAGGGCGCCTCAATTGACCGTCCATCCTTCCCCTGCTCCACGGGCT
GCTCGGAACCCAATATCGACCGGAGCGTCTTCCCAAATCGCCACCCTACACTGCTTTT
CTAGGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCCTTCGAGGATTA
AATATCAGTGCAGTGCCTTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGTTTTT
GGTTATGCTGAATTTGAGGACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAG
TCTCTAGGTAACAGGAGAATTCGAGTGGACGTTGCTGATCAAGCACAGGATAAAGACAGG
GATGATCGTCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGATACAGACTGG
AGGGCTCGTCTGCTACAGACAGCTNTGATGACTACCCACCTAGAAGAGGTGATGATAGC
TNTGGAGACAAGTATCGAGATCGTTATGATTCAGACCGGTATCGGGATGGGTATCGGNAT
GGGGTATCGGATGCCCCACGCCGGGATATGGATCGATATGGTGGCCCGGNATCGTATGA
TGACCCGAGCAGCAGAGACTATGATAGAGGCTATGATTCGGNATAGCAGTGGCAGAAGA
GCATTTGNCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001417 unedited
CTATGTACGCGCCGAATCTATAGTCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTAAAGAAAAGGGGATTTTTATTTGTCTTGCGGAATA
AAGTTTTTGATTTGCTCTCAAATGTCCCAGGGGGAAAAAACCTAGGAAAAAACCCAG
GATGTAAGGCCTTTTCGCATAATCTTCCCCTCTTTTCTTCTTCCCATCAACAAAA
AAACCACCTTCCTTGCTTGAACAACTGAACTTGAAGCTGGATTTTCTCAGTTTTTTTT
GGCTCAGGGGCAAATCGGGAGTCTTGACCCTTTTTGCCATCTTTCCTATCTGACTCCTTC
CAGGGGTCTTTGTCCCCTCCGTCTCCTGAACCACGGTTAAATTTCCCATTTGGGCCTTTG
GGGGCTTTCACCCATCAACTTTATTTTCATCTTCTTCCGGGCCCTTCTAAATGGG
GGAGCGGGACCTACTTTTCCCCACCCTTGAGGAACTGCTGCTCTGGGTCTGACCTC
TGAAATCAACCAGGAGGTTAAACCTTCTTTCCCAACCATTCTCTTTGGGGGAGGG
GCGGGCTTTACCTTTAGGGGCTGACCAGTTGGGAAGGTCTAAATTCGGAAATGGGCAT
CCTCCCCCTTTTGGAGGGTTAATTTCTAGAACTTTCCCTCCTTCTCTTTCGGCTTTC
TGCAAAATGGGGGGAGGCCCCCTGTTGGGATACCCCTACTTGTCCCAACCGCCCGTAC
TCGATTTCTTCCCTACACCATTTGCGTGTACACTCCACGTCTCTTACTACTCTCTC
CCCCTCTCACGCTCTTCTCACTTCTCACCCTCTCACCACCCTCTTTGCCCATCCT
TTCTTTTCTTATCCCCACCCCTCCCTATCTCTTTTACCCACACCACCCACTTCC
TCTCATCTCTACACTCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_001417

Insert Size:

2090 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).

RefSeq:[NM_001417.2](#), [NP_001408.2](#)**RefSeq Size:**

3919 bp

RefSeq ORF:

1836 bp

Locus ID: 1975

UniProt ID: [P23588](#)

Domains: RRM

Protein Pathways: mTOR signaling pathway

Gene Summary: Required for the binding of mRNA to ribosomes. Functions in close association with EIF4-F and EIF4-A. Binds near the 5'-terminal cap of mRNA in presence of EIF-4F and ATP. Promotes the ATPase activity and the ATP-dependent RNA unwinding activity of both EIF4-A and EIF4-F. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.