

Product datasheet for **RC239112**

EIF4B (NM_001300821) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF4B (NM_001300821) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EIF4B
Synonyms:	EIF-4B; PRO1843
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239112 representing NM_001300821
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTTTCTGGCTGAGG
 ATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCACTCAGCTGGGCTGATGAAACGGATGACCT
 GGAAGGAGATGTTTCGACCACCTTGGCACAGTAACGATGACGATGTGTATAGGGCGCCTCCAATTGACCGT
 TCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCAATATCGACCGGAGCCGTCTTCCCAATCGC
 CACCCTACACTGCTTTTCTAGGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATCTTTTCG
 AGGATTAATATCAGTGCAGTGCCTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGTTTTGGT
 TATGCTGAATTTGAGGACCTGGATTCCCTGCTCAGTGCCTGAGTCTCAATGAAGAGTCTCTAGGTAACA
 GGAGAATTCGAGTGGACGTTGCTGATCAAGCACAGGATAAAGACAGGGATGATCGTTCTTTGGCCGTGA
 TAGAAATCGGGATTCTGACAAAACAGATACAGACTGGAGGGCTCGTCCTGCTACAGACAGCTTTGATGAC
 TACCCACCTAGAAGAGGTGATGATAGCTTTGGAGACAAGTATCGAGATCGTTATGATTACAGACCGGTATC
 GGGATGGGTATCGGGATGGGTATCGGGATGGCCACGCCGGGATATGGATCGATATGGTGGCCGGGATCG
 CTATGATGACCGAGGCAGCAGAGACTATGATAGAGGCTATGATTCGCGGATAGGCAGTGGCAGAAGAGCA
 TTTGGCAGTGGGTATCGCAGGGATGATGACTACAGAGGAGGCGGGGACCGCTATGAAGACCGATATGACA
 GACGGGATGATCGGTCTGGAGCTCCAGAGATGATTACTCTCGGGATGATTATAGGCGTGATGATAGAGG
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 ACCTCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCTGTTGACACAGCTGCTAGAGAAA
 GAGAAGTAGAAGAACGGCTACAGAAGGAACAAGAGAAGTTGCAGCGTCAGCTGGATGAGCCAAACTAGA
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 AAGCGAAGTTCTAACCTCCTGCTCGATCTCAGAGCTCAGACACAGAGCAGCAGTCCCCTACAAGTGGTG
 GGGGAAAAGTAGCTCCAGCTCAACCATCTGAGGAAGGACCAGGAAGGAAGATGAAAATAAAGTAGATGG
 GATGAATGCCCAAAAGGCCAACTGGGAATCTAGCCGTGGTCCAGGAGACGGAGGGAACAGAGACCAC
 TGAAGGAGTCAGATAGGAAAGATGGCAAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAAC
 CTGAGGAAAATCCAGCTTCCAAGTTCAGTTCTGCAAGCAAGTATGCTGCTCTCTCTGTTGATGGTGAAGA
 TGAATGAGGGAGAAGATTATGCCGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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 Red=Cloning site Green=Tags(s)

MAASAKKKNKKGKTIISLTDFLAEDGGTGGSTYVSKPVSWAEDTDDLEGDVSTTWHNSDDVYRAPPIDR
 SILPTAPRAAREPNIDRSRLPKSPPYTAFLGNLPYDVTEESIKEFFRGLNISAVRLPREPSNPERLKGFG
 YAEFEDLDSLLSALSLNEESLGNRRIRVDVADQAQDKDRDRSFGRDRNRSDKTDTDWRARPATDSFDD
 YPPRRGDSFGDKYRDYDSRYRDGYRDGYRDGPRRDMRYGGDRYDDRGSRDYDRGYDSRIGSGRRA
 FGSGYRRDDYRGGDRYEDRYDRDRDSWSSRDDYSRDDYRRDRGPPQRPKLNKPRSTPKEDDSSAS
 TSQSTRAASIFGGAAPVDTAAREREVEERLQKEQELQRLDEPKLERRPRERHPSWRSEETQERERSRT
 GSESSQTGTSTTSRSKSDQDARRRESEKSLNETLNKEEDCHSPTSKPPKPDQPLKVPMPAPPKENAWV
 KRSSNPARSQSSDTEQQSPTSGGKVAPAPSEEGPGRKDENVDMNAPKGQTNSSRGPDGGNRDH
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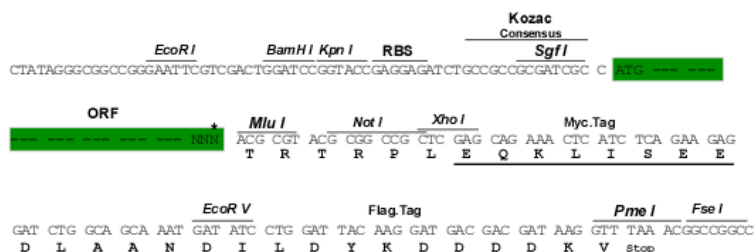
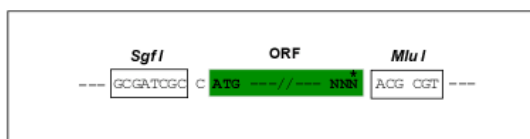
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

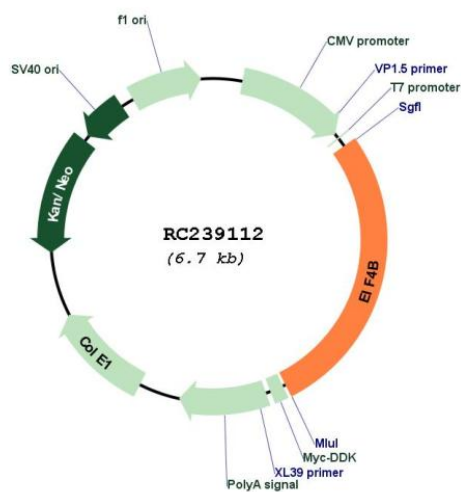
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_001300821

ORF Size:

1848 bp

OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001300821.2
RefSeq Size:	4076 bp
RefSeq ORF:	1851 bp
Locus ID:	1975
Cytogenetics:	12q13.13
Protein Pathways:	mTOR signaling pathway
MW:	70.1 kDa
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]