

Product datasheet for **MG218693**

Eif4b (NM_145625) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4b (NM_145625) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eif4b
Synonyms:	2310046H11Rik; AL024095; C85189; Eif4a2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218693 representing NM_145625
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACCATCTCCCTAACGGACTTTCTAGCTGAGG
 ATGGAGGAAGTGGTGGAGGAAGCACCTATGTCCCCAAACCAGTCAGCTGGGCTGATGAAACAGACGATCT
 GGAAGGAGATGTGTCAACAACCTTGGCATAGTAACGATGATGACGTGTACAGGGCGCCTCCAATTGACCGT
 TCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCAATATTGACCGGAGCCGTCTTCCAAGTCGC
 CACCCTACACTGCTTTCCTAGGGAATCTGCCCTATGATGTGACAGAAGACTCCATTAAGGATTTCTTTAG
 AGGATTAATATCAGCGCTGTACGCTTACCACGGGAACCCAGCAATCCAGACAGGTTGAAAGGTTTCGGC
 TACGCAGAATTTGAGGACCTGGATTCTCTGCTCAGTGCTGAGTCTCAATGAAGAGTCTCTAGGTAACA
 GGAGAATTCGTGGATGTTGCTGATCAAGCACAGGATAAAGACAGGGATGACCGTTCTTTGGTCGAGA
 TAGAAATCGGATTTCTGACAAAACAGACACAGACTGGAGGGCCCGTCCCACCACAGACAGTTTTGATGAC
 TACCCACCTAGAAGAGCGGATGATAGCTTTGGAGACAAGTATCGAGATCGTTACGATTACAGCCGGTATC
 GGGATGGGTATAGGGACGGATATCGGGACGGCCACGCAGAGACATGGACCGCTATGGGGCCGGGATCG
 CTATGATGACCGAGGCAGCAGAGACTATGACCGAGGCTATGACTCCAGGATAGGCAGTGGCAGAAGGGCA
 TTTGGAAGTGGTACCGGAGAGATGATGACTACAGAGGAGTGGGGACCGCTATGAAGACCGCTATGACA
 GACGGGATGATCGGTCTGGAGCTCCAGGGATGACTACTCTCGGGATGATTATAGCGTGTGACAGAGG
 TCCCCCAGAGACCCAGACTGAACCTCAAGCTCGAAGCGCTCCTAAGGAGGATGACGCTCCGCCAGC
 ACCTCCAGTCCAGCCGGCAGCCTCCATCTTTGGAGGGGCGAAGCCTGTTGACACAGCTGCTAGGGAAA
 GAGAAGTAGAGGAGCGGCTACAGAAGGAGCAGGAGAAGCTCGAGCGTCAGCTGGATGAGCCAAAATAGA
 CGCCCGGCCCGGAGAGACACCCAAGCTGGCGAAGTGAAGAACTCAGGAAAGAGAACGGTCAAGGACA
 GGAAGTGAGTCATCGCAGACTGGGGCTCAGCCACATCTGGCAGAAATACACGAAGGAGAGAGAGTGAGA
 AGTCTCTAGAAAATGAAACCCTCAATAAAGAAGAAGACTGCTACTCTCCAACCTCTAAGCCTCTAAACC
 TGACCAGCCTCTAAAGTAATGCCAGCCCTCCACCAAAGGAGAATGCGTGGGTGAAGCGAAGCTCTAAC
 CCTCTGCCCGATCTCAGAGCTCAGACACAGAGCAGCCGTCCTTACAAGTGGTGGAGGGAAAGTAGCTG
 CAGTCCAGCCCCCTGAGGAAGGACCATCAAGAAAAGATGGAAATAAAGTGGATGTGGTGGTGCCACACA
 AGGCCAAGCTGGAAGCTGCAGCCGTGGTCCCGGGATGGAGGGAGCAGAGACCACTGGAAGGACTGGAT
 AGGAAGGATGGCAAAAAGATCAAGACTCCAGATCTGCGCCTGAGCCAAAAGAACTGAGGAGAACCCAG
 CCTCTAAGTTCAGCTCTGCAAGCAAGTACGCTGCTGTCTGTGGATGGCGAGGATGAGGATGAGGGCGA
 CGACTGCACTGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG218693 representing NM_145625
 Red=Cloning site Green=Tags(s)

MAASAKKKNKKGKTIISLTDFLAEDGGTGGGSTYVPKPVSWADETDDLEGDVSTTWHNSDDDDVYRAPPIDR
 SILPTAPRAAREPNIDRSRLPKSPPYTAFLGNLPYDVTEDSIKDFFRGLNISAVRLPREPSNPDRCLKGFG
 YAEFEDLDSLLSALSNEESLGNRRIRVDVADQAQDKDRDRSFGRDRNRSDKTDTDWRARPTTDSFDD
 YPPRRGDSFGDKYRDRYDSRYRDGYRDGYRDGPRRDMDRYGGRDRYDDRGRDYDRGYDSRIGSGRRA
 FGSGYRRDDYRGGDRYEDRYRRDRSWSRRDYSRDDYRRDRGPPQRPLNLKPRSAPKEDDASAS
 TSQSSRAASIFGGAKPVDAAREREVEERLQKEQELQRQLDEPKLDRRPRERHPSWRSEETQERERSRT
 GSESSQTGASATSGRNTRRRESEKSLNETLNKEEDCHSPTSKPKPDQPLKVMAPPKNAWVKRSSN
 PPARSQSSDTEQPSPTSGGGKVAAVQPPEEGPSRKDGKVDVVGATQGGAGSCSRGPGDGGSRDHWKDL
 RKDGKQDQSRSAPEPKPEENPASKFSSASKYAALSVDGEDEDEGDDCTE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_145625

ORF Size: 1833 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:

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_145625.3](#), [NP_663600.2](#)

RefSeq Size: 3871 bp

RefSeq ORF: 1836 bp

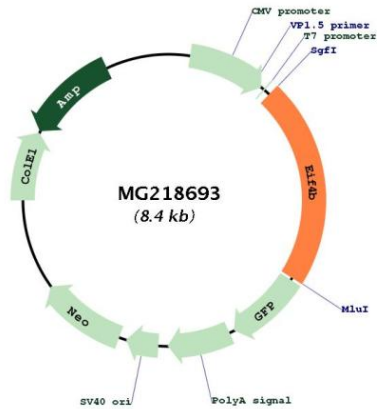
Locus ID: 75705

UniProt ID: [Q8BGD9](#)

Cytogenetics: 15 F2

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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218693