

Product datasheet for **MR218693**

Eif4b (NM_145625) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4b (NM_145625) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif4b
Synonyms:	2310046H11Rik; AL024095; C85189; Eif4a2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>MR218693 representing NM_145625
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACCATCTCCCTAACGGACTTTCTAGCTGAGG
 ATGGAGGAAGTGGTGGAGGAAGCACCTATGTCCCCAAACCAGTCAGCTGGGCTGATGAAACAGACGATCT
 GGAAGGAGATGTGTCAACAACCTTGGCATAGTAACGATGATGACGTGTACAGGGCGCCTCCAATTGACCGT
 TCCATCCTTCCACTGCTCCACGGGCTGCTCGGGAACCAATATTGACCGGAGCCGTCTTCCCAAGTCGC
 CACCTACACTGCTTTCTAGGGAATCTGCCCTATGATGTGACAGAAGACTCCATTAAGGATTTCTTTAG
 AGGATTAATATCAGCGCTGTACGCTTACCACGGGAACCCAGCAATCCAGACAGGTTGAAAGGTTTCGGC
 TACGCAGAATTTGAGGACCTGGATTCTCTGCTCAGTGCTGAGTCTCAATGAAGAGTCTCTAGGTAACA
 GGAGAATTCGTGGATGTTGCTGATCAAGCACAGGATAAAGACAGGGATGACCGTTCTTTGGTCGAGA
 TAGAAATCGGATTTCTGACAAAACAGACACAGACTGGAGGGCCCGTCCCACCACAGACAGTTTTGATGAC
 TACCCACCTAGAAGAGGCGATGATAGCTTTGGAGACAAGTATCGAGATCGTTACGATTACAGACCGGTATC
 GGGATGGGTATAGGGACGGATATCGGGACGGCCACGCAGAGACATGGACCGCTATGGGGCCGGGATCG
 CTATGATGACCGAGGCAGCAGAGACTATGACCGAGGCTATGACTCCAGGATAGGCAGTGGCAGAAGGGCA
 TTTGGAAGTGGTACCGGAGAGATGATGACTACAGAGGAGTGGGGACCGCTATGAAGACCGCTATGACA
 GACGGGATGATCGGTCTGGAGCTCCAGGGATGACTACTCTCGGGATGATTATAGCGTGTGACAGAGG
 TCCCCCAGAGACCCAGACTGAACCTCAAGCTCGAAGCGCTCCTAAGGAGGATGACGCTCCGCCAGC
 ACCTCCAGTCCAGCCGGCAGCCTCCATCTTTGGAGGGGCGAAGCCTGTTGACACAGCTGCTAGGGAAA
 GAGAAGTAGAGGAGCGGCTACAGAAGGAGCAGGAGAAGCTGCAGCGTCAGCTGGATGAGCCAAAAGT
 CGCCCGCCCGGAGAGACACCCAAGCTGGCGAAGTGAAGAACTCAGGAAAGAGAACGGTCAAGGACA
 GGAAGTGAGTCATCGCAGACTGGGGCTCAGCCACATCTGGCAGAAATACACGAAGGAGAGAGAGTGAGA
 AGTCTCTAGAAAATGAAACCCTCAATAAAGAAGAAGACTGCTACTCTCCAACCTCTAAGCCTCTAAACC
 TGACCAGCCTCTAAAGGTAAAGCAGCCCTCCACCAAAGGAGAATGCGTGGGTGAAGCGAAGCTCTAAC
 CCTCTGCCCGATCTCAGAGCTCAGACACAGAGCAGCCGTCCTTACAAGTGGTGGAGGGAAAGTAGCTG
 CAGTCCAGCCCCCTGAGGAAGGACCATCAAGAAAAGATGGAAATAAAGTGGATGTGGTGGTGCCACACA
 AGGCCAAGCTGGAAGCTGCAGCCGTGGTCCCGGGATGGAGGGAGCAGAGACCACTGGAAGGACTGGAT
 AGGAAGGATGGCAAAAAGATCAAGACTCCAGATCTGCGCCTGAGCCAAAAGAACCTGAGGAGAACCAG
 CCTCTAAGTTCAGCTCTCAAGCAAGTACGCTGCTGTCTGTGGATGGCGAGGATGAGGATGAGGGCGA
 CGACTGCACTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

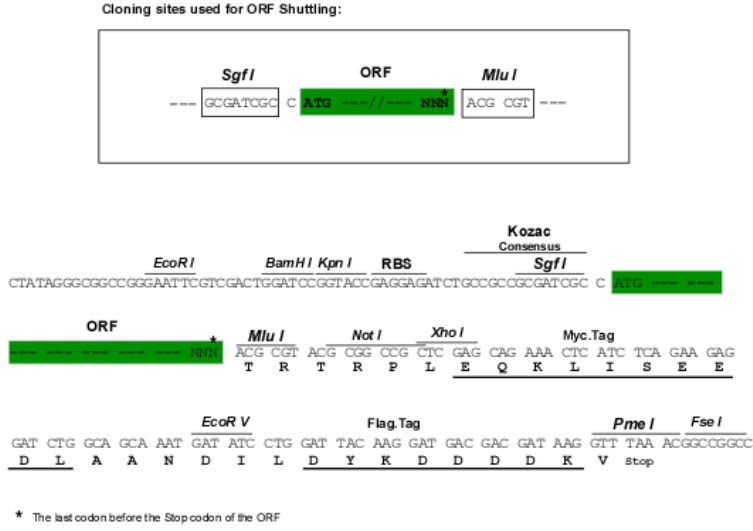
>MR218693 representing NM_145625
 Red=Cloning site Green=Tags(s)

MAASAKKKNKKGKTIISLTDFLAEDGGTGGGSTYVPKPVSWAETDDLEGDVSTTWHNSNDDVYRAPPIDR
 SILPTAPRAAREPNIDRSRLPKSPPYTAFLGNLPYDVTEDSIKDFFRGLNISAVRLPREPSNPDRKGF
 YAEFEDLDSLLSALSLNEESLGNRRIRVDVADQAQDKDRDRSFGRDRNRSDKTDTDWRARPTTDSFDD
 YPPRRGDSFGDKYRDYSDRYRDGYRDGYRDPDRMDRYGGRDRYDDRGSRDYDRGYDSRIGSGRRA
 FGSYRRDDYRGGDRYEDRYDRRDRSWSRDDYSRDDYRDRDRGPPQRPLNLKPRSAPKEDDASAS
 TSQSSRAASIFGGAKPVDTAAREREVEERLQKEQEKLRQLDEPKLDRRPRERHPSWRSEETQERERSRT
 GSESSQTGASATSGRNRRESEKSLNETLNKEEDCHSPTSKPPKPDQPLKVMPPAPPKENAWVKRSSN
 PPARSQSSDTEQPSPTSGGGKVAAVQPPEEGPSRKDGNKVDVVGATQGGAGSCSRGPGDGGSRDHWKDL
 RKDGKKDQDSRSAPPEPKPEENPASKFSSASKYAALSVDEDEDEDDCTE

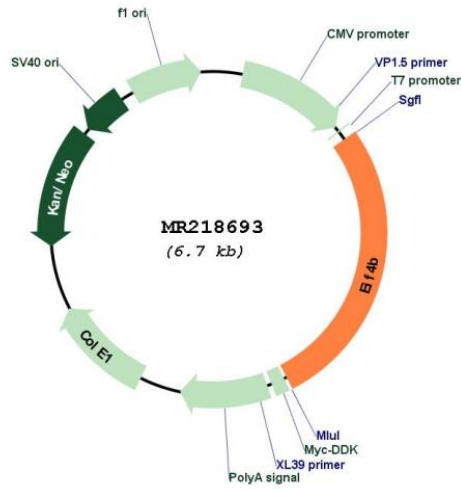
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_145625.3 , NP_663600.2
RefSeq Size:	3871 bp
RefSeq ORF:	1836 bp
Locus ID:	75705
UniProt ID:	Q8BGD9
Cytogenetics:	15 F2
MW:	69.3 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 (By similarity).[UniProtKB/Swiss-Prot Function]