

Product datasheet for **MR205574**

Eif4b (BC007171) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4b (BC007171) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif4b
Synonyms:	2310046H11Rik; AL024095; C85189; Eif4a2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205574 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCGCTATGGGGCCGGGATCGCTATGATGACCGAGGCAGCAGAGACTATGACCGAGGCTATGACT
CCAGGATAGGCAGTGGCAGAAGAGCATTGGAAGTGGGTACCGGAGAGATGATGACTACAGAGGAGGTGG
GGACCGCTATGAAGACCGCTATGACAGACGGGATGATCGGTCGTGGAGCTCCAGGGATGACTACTCTCGG
GATGATTATAGGCGTGATGACAGAGTCCCCCAGAGACCCAGACTGAACCTCAAGCCTCGCAGCGCTC
CTAAGGAGGATGACGCCCTCCGCCAGCACCTCCAGTCCAGCCGGGCAGCCTCCATCTTTGGAGGGGCGAA
GCCTGTTGACACAGCTGCTAGGGAAAGAGAAGTAGAGGAGCGGCTACAGAAGGAGCAGGAGAAGCTGCAG
CGTCAGCTGGATGAGCCAAAAGTACGCCCGGCCCGGGAGAGACCCCAAGCTGGCGAAGTGAAGAAA
CTCAGGAAAGAGAACGGTCAAGGACAGGAAGTGAGTCAATCGCAGACTGGGGCCTCAGCCACATCTGGCAG
AAATACACGAAGGAGAGAGAGTGAGAAGTCTCTAGAAAATGAAACCCTCAATAAAGAAGAAGACTGTCAC
TCTCCAACCTCTAAGCCTCTAAACCTGACCAGCCTCTAAGGTAATGCCAGCCCCTCCACCAAAGGAGA
ATGCGTGGGTGAAGCGAAGCTCTAACCTCCTGCCGATCTCAGAGCTCAGACACAGAGCAGCCGTCCTCC
TACAAGTGGTGGAGGAAAGTAGCTGCAGTCCAGCCCCCTGAGGAAGGACCATCAAGAAAAGATGGAAT
AAAGTGGATGTGGTGGTGCCACACAAGGCCAAGCTGGAAGCTGCAGCCGTGGTCCCGGGGATGGAGGGA
GCAGAGACCACTGGAAGGACTTGGATAGGAAGGATGGCAAAAAGATCAAGATTCCAGATCTGCACCTGA
GCCAAAGAAACCTGAGGAGAACCAGCCTCCAAGTTCAGCTCTGCAAGCAAGTACGCTGCTGTCTGTG
GATGGCGAGGATGAGGATGAGGGCGACGACTGCACTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205574 protein sequence
 Red=Cloning site Green=Tags(s)

MDRYGGRDRYDDRGRSDYDRGYDSRIGSGRRAFGSGYRRDDDYRGGGDYEDRYDRRDRSWSRRDDYSR
 DDYRRDDRGPQRPRLNLKPRSAPKEDDASASTSQSSRAASIFGGAKPVDTAAREREVEERLQKEQKELQ
 RQLDEPKLDRRPRERHPSWRSEETQERERSRTGSESSQTGASATSGRNTRRRESEKSLNETLNKEEDCH
 SPTSKPPKPDQPLKVMPPAPPKENAWVKRSSNPPARSQSSDTEQPSTSGGGKVAAVQPPEEGPSRKDGN
 KVDVVGATQGGAGSCSRGPGDGGSRDHWKDLDRKDGKDKQDSRSAPKPKPEENPASKFSSASKYAALSV
 DGEDEDEGDDCTE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC007171

ORF Size: 1089 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: [BC007171](#), [AAH07171](#)

RefSeq Size: 3658 bp

RefSeq ORF: 1091 bp

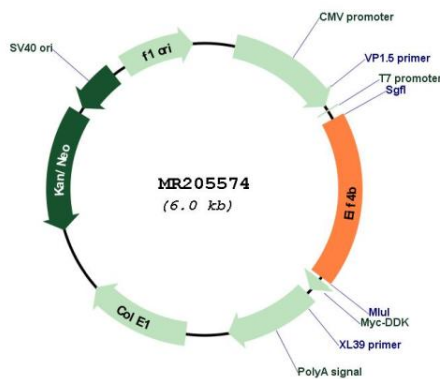
Locus ID: 75705

Cytogenetics: 15 F2

MW: 40.7 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]

Product images:



Circular map for MR205574