

Product datasheet for **MR207798**

Eif2a (BC030447) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif2a (BC030447) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif2a
Synonyms:	D030048D22; D3Ertd194e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR207798 representing BC030447
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAAAACCTCTAAAGATGGCACTGCTGGGACGCCTAACCTACAACCTTTATGACATGAAAACCTGGAG
 CATGTTTGAAATCGTTTCCAGAAAAAATGCAAAATGGTGTCTTCCCTGGTCAGATGATGAAATTAT
 TTGTGCCCGGAATGTTAAACAACGAAGTTCACTTCTTTGAGAACAACAATTTAAACACAATTGCAAAATAAA
 TTACATTTGCAAAAAGTTAATGACTTTAATTTATCACCTGGAACCCAACCTTATAAGGTGGCAGTTTATG
 TCCCAGGAAGTAAAGGTGCCCTCATTGTTGACTGTATCAGTATCCCAACTTGGCCGACCTCAGGC
 AGCACTGGCCAATAAAAGCTTCTTTAAAGCTGATAAGGTTACAATGCTGTGGAATAAAAAAGCTACTGCT
 GTGCTGGAATAGCCAGTACAGAGTTGACAAGACAGGAGCCTCTACTATGGAGAACAACACTGCACT
 ACATTGCAACAAATGGAGAAAGTCTGTGGTACAATTACCAAAAAATGGCCAATTTATGATGTAGTTTG
 GAATCCAGTTCTACTGAGTTTTGCGCTGTTTATGGTTTTATGCCTGCGAAAGCAACAGTTTTCAACCTG
 AAGTGTGATCCTGTGTTGACTTTGGGACTGGTCTCGCAACGCAGCCTTCTATAGCCCTCATGGACATA
 TATTAGTCTGGCTGGATTTGGAATCTTCGAGGACAAATGGAAGTATGGGATGTTAAAACTACAAGCT
 TATTTCTAAGCCAGTGGCTTCTGATTCTACATATTTGCCTGGTCCCGATGGTGGAGCATATCTTAAACA
 GCCACATGTGCTCCTAGGTTACGTGTTAATAATGGGTATAAGTCTGGCATTATACTGGCTCTCTTTTGC
 ATAAGTATGATGTCCATCAATGGAGAATTATGGCAGTTTTCTGGCAGCCATTTTGGATGGAATATT
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 GCTTATAGACCTCCAGCCTTAAGAAAATAAGCCAGTCACCAATCCAACTGCATGAAGAGGAACCTCCCC
 AGAATGAAGCCACATCCAGGAAGTACAAGCCATTATCAAAAACAGCCCTTAAAAATCAAAGGAAGCA
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 CCACGGAACACGGTCACCCAGTCTGCTTCTGGTATCCTGAAGTAGACAAAAAATAAAGATCTAAAGA
 AGAAAAGTAAAGCCATAGAGCAGCTAAAAGAGCAGGCAGCCGCCGGGAAACAGCTAGAAAAAATCAGTT
 GGAGAAAATTCAGAAAGAGACAGCCCTTCCAAGAGCTTGAAGATTTGGAATGGGAGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207798 representing BC030447
 Red=Cloning site Green=Tags(s)

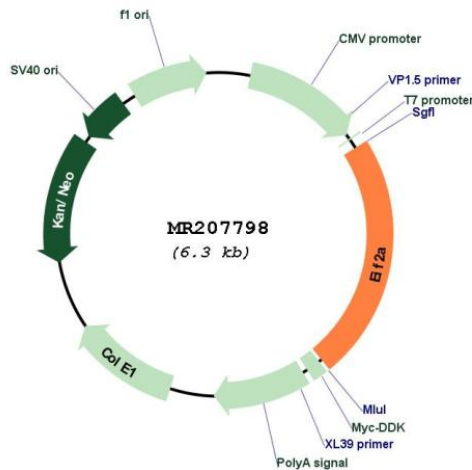
MEKTSKDGTAGTPNLQLYDMKTGACLKSFIQKKMQNWCPSSDDEIICARNVNNVHFFENNFNTIANK
 LHLQKVNDFNLSPGTQPYKVAVYVPGSKGAPSFVRLYQYPNFAQPQAALANKSFFKADKVTMLWNKKATA
 VLVIASTEVDKTGASYGQTLHYIATNGESAVVQLPKNGPIYDVVWNSSTEFCAVYGFMPAKATVFNL
 KCDPVDFGTGPRNAAFYSPHGHLVLAGFNLRGQMEVWDVKNYKLISKPVASDSTYFAWCPDGEHILT
 ATCAPRLRVNNGYKIWHYTGSLHLKYDVPNGELWQVSWQPFLLDGFPAKTIKYQAVPSEVPSEPKVAT
 AYRPPALRNKPVNSKLHEEPPQNMKPHPGSDKPLSKTALKNQRKHEAKKAQKQEARSDAAPTVPQSA
 PRNTVTQASGDPEVDKKIKNLKKLKAIEQLKEQAAAGKQLEKNQLEKIQKETALLQLEDLELGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: BC030447

ORF Size: 1461 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: [BC030447.1](#)

RefSeq Size: 1984 bp

RefSeq ORF: 1463 bp

Locus ID: 229317

Cytogenetics: 3 28.58 cM

MW: 72.7 kDa

Gene Summary: Functions in the early steps of protein synthesis of a small number of specific mRNAs. Acts by directing the binding of methionyl-tRNA_i to 40S ribosomal subunits. In contrast to the eIF-2 complex, it binds methionyl-tRNA_i to 40S subunits in a codon-dependent manner, whereas the eIF-2 complex binds methionyl-tRNA_i to 40S subunits in a GTP-dependent manner. [UniProtKB/Swiss-Prot Function]