

## Product datasheet for **MC205270**

### Eif2a (NM\_001005509) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eif2a (NM_001005509) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eif2a
Synonyms:	D030048D22; D3Ertd194e
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC082557  
 TGAACTCTCACCCAGCGCTGGGTTTCTCTTTCCGGGACAAGATGGCGCCGTCCACACCCTGTTGACA  
 GTCAGAGGATCAGAGGGACTGTACATGGTGAATGGACCACCACACTTCACAGAAAGCACGGTGCTTCCCA  
 GAGAATCTGGAAGAAATTGCAAAGTGTACACTTTTAGTAAGGATGGGACATTGTTTGCCCTGGAGCAATGG  
 AGAAAAAGTAAATATAATCAATGTCGCTAACAAGGGACTACTGCACTCCTTCGACCTCCCAAAAGCAGTT  
 TGCCTTGAATTCTACCAAATAACACTGTCTGGCAACGTGGCAGCCTTACACTACTTCTAAAGATGGCA  
 CTGCTGGGACGCCTAACCTACAACCTTTATGACATGAAAACCTGGAGCATGTTTGAATCGTTCATCCAGAA  
 AAAAAATGCAAAATGGTGTCTTCTGGTCAGATGATGAAATATTTGTGCCCGGAATGTTAACACGAA  
 GTTCACCTCTTTGAGAACAACAATTTAACACAATTGCAATAAATTACATTTGCAAAAAGTTAATGACT  
 TTAATTTATCACCTGGAACCCAACCTTATAAGGTGGCAGTTTATGTCCAGGAAGTAAAGGTGCCCCCTC  
 ATTTGTTGACTGTATCAGTATCCCAACTTTGCCGGACCTCAGGCAGCACTGGCCAATAAAAGCTTCTTT  
 AAAGCTGATAAGGTTACAATGCTGTGGAATAAAAAAGCTACTGCTGTGCTGGTAATAGCCAGTACAGAGG  
 TTGACAAGACAGGAGCCTCTACTATGGAGAACAACACTGCACTACATTGCAACAAATGGAGAAAGTGC  
 TGTGGTACAATTACCAAAAAATGGCCCAATTTATGATGTAGTTTGAATCCAGTTCTACTGAGTTTTGC  
 GCTGTTTATGGTTTTATGCTGCGAAAGCAACAGTTTTCAACCTGAAGTGTGATCCTGTGTTTGACTTTG  
 GGACTGGTCTCGCAACGCAGCCTTCTATAGCCCTCATGGACATATATTAGTGTGGCTGGATTTGGAAA  
 TCTTCGAGGACAATGGAAGTATGGGATGTTAAAACTACAAGCTTATTTCTAAGCCAGTGGCTTCTGAT  
 TCTACATATTTTGCCTGGTGCCAGATGGTGAGCATATCTTAACAGCCACATGTGCTCCTAGGTTACGTG  
 TTAATAATGGGTATAAGATCTGGCATTATACTGGCTCTCTTTGCATAAGTATGATGTGCCATCAAATGG  
 AGAATTATGGCAGGTTTCTTGGCAGCCATTTTGGATGGAATATTTCCAGCAAAAACGATAAAGTACCAA  
 GCAGTTCCAAGTGAAGTGCCTAGTGAGGAGCCTAAAGTTGCAACAGCTTATAGACCTCCAGCCTTAAGAA  
 ATAAGCCAGTACCAATCCAACTGCATGAAGAGGAACCTCCCAGAATATGAAGCCACATCCAGGAAG  
 TGACAAGCCATTATCAAAAACAGCCCTTAAAAATCAAAGGAAGCATGAAGCTAAAAAGCTGCAAAAACAG  
 GAAGCAAGAAGTATGCGGCTCCTACTCCTGTCCACAGAGTGCAACGGAACCGGTACCCAGTCTG  
 CTTCTGGTGATCCTGAAGTAGACAAAAAATTAAGAATCTAAAGAAGAACTGAAAGCCATAGAGCAGCT  
 AAAAGAGCAGGCAGCCGCGGAAACAGCTAGAAAAAATCAGTTGGAGAAAATTCAGAAAGAGACAGCC  
 CTTCTCCAAGAGCTTGAAGATTTGGAATGGGAGTTTGAAGACTCACAGAAAGTGAATTTGTTGGCAGGA  
 AACACTATAAGCAAGTCTCTTAAGCCATGGTGTTCATGGAATTGCCATATGCCACTGTAAACATCAGT  
 CTATATTTTAAACCATTATCCAAGTTGAATATGTATAATTATCTAATGATGTCTATTCAATTGACTTT  
 ACATCTGCATTCTGTATCATGTGATGTAATAAAGAGAGATGATTTTTTCCAGATAAGCTTAATAAAT  
 TGACAGACATTTGGTTTTTTTTTAAATGGGTAATAGTATTTCTATGTAACAAATAAAGACATTTTAA  
 ATTTGAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Ascl-NotI

**ACCN:** NM\_001005509

**Insert Size:** 1746 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC082557</a></u> , <u><a href="#">AAH82557</a></u>
<b>RefSeq Size:</b>	2128 bp
<b>RefSeq ORF:</b>	1746 bp
<b>Locus ID:</b>	229317
<b>UniProt ID:</b>	<u><a href="#">Q8BJW6</a></u>
<b>Cytogenetics:</b>	3 28.58 cM
<b>Gene Summary:</b>	Functions in the early steps of protein synthesis of a small number of specific mRNAs. Acts by directing the binding of methionyl-tRNAi to 40S ribosomal subunits. In contrast to the eIF-2 complex, it binds methionyl-tRNAi to 40S subunits in a codon-dependent manner, whereas the eIF-2 complex binds methionyl-tRNAi to 40S subunits in a GTP-dependent manner. [UniProtKB/Swiss-Prot Function]