

Product datasheet for **MC208429**

Eif4a2 (NM_001123038) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4a2 (NM_001123038) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eif4a2
Synonyms:	4833432N07Rik; BM-010; Ddx2b; eIF-4A-II; Eif4; eIF4A-II
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC208429 representing NM_001123038 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGGTGGCTCCGCGGATTACAACAGAGAACATGGCGGCCAGAGGGGAATGGACCCCGATGGTGTCA
TCGAGAGCAACTGGAATGAAATTGTTGATAACTTTGATGATATGAATTTAAAGGAGTCCCTTCTTCGAGG
CATCTATGCATATGGTTTTGAGAAGCCTTCAGCTATTCAGCAAAGAGCTATTATCCCTTGTATTAAGGG
TATGATGTGATTGCTCAAGCTCAGTCAGTACTGGCAAGACAGCCACATTTGCTATTTCCATCCTGCAAC
AGTTGGAGATTGAGTTCAAGGAGACCAAGCACTAGTATTGGCCCCACCAGAGAAGTGGCTCAACAGAT
CCAAAAGGTAATTTGGCTCTTGAGATTATATGGGAGCAACTTGTATGCTTGCATTGGAGGAACAAAT
GTTCGAAATGAAATGCAGAAGTTCAGGCTGAAGCCCCTCACATTGTTGTTGGTACTCCAGGGAGAGTGT
TTGATATGCTAACAGAGATACCTTTCTCCAAAATGGATCAAAATGTTTCGTTTTGGACGAAGCAGATGA
AATGTTGAGCCGAGGTTTAAGGATCAGATCTATGAGATTTTCCAGAAATTAATACAAGCATTCAAGTT
GTGTTGCTTTCTGCCACAATGCAACTGATGTGCTAGAAGTGACCAAGAAATTCATGAGAGATCCAATTC
GAATTCTGGTGAAGAAGGAAGAATTGACCCTTGAAGGAATTAACAATTTTATATTAATGTTGAGCGAGA
GGAGTGAAGCTGGACACTCTTTGTGACTTGTATGAGACTTTGACTATCACACAAGCAGTTATTTTTCTC
AATACAAGGCGCAAGGTGGACTGGCTCACGGAGAAAATGCATGCCAGGGACTTCACAGTTTCTGCTCTGC
ATGGTGACATGGACCAGAAGGAAAGAGATGTCATCATGAGGGAATTCGATCAGGGTCAAGCCGTGTTCT
GATCACTACTGACTTGTGGCCCGTGGGATTGACGTGCAACAAGTGCCTTGTTATAAACTACGATCTA
CCTACCAATCGTGAAAATATATTCACAGGAGTCGATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001123038



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Insert Size:	1089 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001123038.2</u> , <u>NP_001116510.1</u>
RefSeq Size:	3185 bp
RefSeq ORF:	1089 bp
Locus ID:	13682
UniProt ID:	<u>P10630</u>
Cytogenetics:	16 13.93 cM
Gene Summary:	<p>ATP-dependent RNA helicase which is a subunit of the eIF4F complex involved in cap recognition and is required for mRNA binding to ribosome. In the current model of translation initiation, eIF4A unwinds RNA secondary structures in the 5'-UTR of mRNAs which is necessary to allow efficient binding of the small ribosomal subunit, and subsequent scanning for the initiator codon.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site in the 3'-terminal exon, which leads to a frameshift, compared to variant 1. The encoded isoform (c) has a shorter and distinct C-terminus, compared to isoform a.</p>