

Product datasheet for **MC208430**

Eif4a2 (NM_001123037) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eif4a2 (NM_001123037) 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: >MC208430 representing NM_001123037
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATATGGTTTTGAGAAGCCTTCAGCTATTCAGCAAAGAGCTATTATCCCTTGTTAAAGATCCAAA
 AGGTAATTTGGCTCTTGAGATTATATGGGAGCAACTTGTCTGCTTGCATTGGAGGAACAATGTTCCG
 AAATGAAATGCAGAAGTTCAGGCTGAAGCCCTCACATTGTTGTTGGTACTCCAGGAGAGTGTTGAT
 ATGCTAAACAGAAGATACCTTTCTCAAAATGGATCAAAATGTTGTTTTGGACGAAGCAGATGAAATGT
 TGAGCCGAGGGTTTAAGGATCAGATCTATGAGATTTTCCAGAAATTAATACAAGCATTCAGGTTGTGT
 GCTTTCTGCCACAATGCCAATGATGTGCTAGAAGTGACCAAGAAATTCATGAGAGATCCAATTCGAATT
 CTGGTGAAGAAGGAAGAAATTGACCCTTGAAGGAATTAACAATTTTATATTAATGTTGAGCGAGAGGAGT
 GGAAGCTGGACTCTTTGTGACTTGTATGAGACTTTGACTATCACACAAGCAGTTATTTTTCTCAATAC
 AAGGCGCAAGGTGGACTGGCTCACGGAGAAAATGCATGCCAGGGACTTCACAGTTTCTGCTCTGCATGGT
 GACATGGACCAGAAGGAAAGAGATGTCATCATGAGGGAATCCGATCAGGGTCAAGCCGTGTTCTGATCA
 CTACTGACTTGTGGCCGTGGATTGACGTGCAACAAGTGCCTTGTTATAAACTACGATCTACCTAC
 CAATCGTGAAAATATATTCACAGAATTGGCAGAGGGGTCGATTTGGGAGGAAAGGTGTGGCTATAAAC
 TTTGTTACTGAAGAAGACAAGAGATTCTTCGTGACATTGAGACTTTCTACAATACTACAGTGGAGGAAA
 TGCCCATGAATGTGGCTGACCTAATTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001123037
Insert Size: 939 bp



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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:	NM_001123037.2 , NP_001116509.1
RefSeq Size:	2229 bp
RefSeq ORF:	939 bp
Locus ID:	13682
UniProt ID:	P10630
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 (2) lacks an exon in its 5' coding region, which leads to a frameshift and use of an alternate start codon, compared to variant 1. The encoded isoform (b) has a shorter and distinct N-terminus, compared to isoform a.</p>