

Product datasheet for MC207265

Eif4a2 (NM_013506) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Eif4a2 (NM_013506) 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: | >MC207265 representing NM_013506 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTGGTGGCTCCGCGGATTACAACAGAGAACATGGCGGCCAGAGGGAAATGGACCCCGATGGTGTCA
TCGAGAGCAACTGGAATGAAATTGTTGATAACTTTGATGATATGAATTTAAAGGAGTCCCTTCTTCGAGG
CATCTATGCATATGGTTTTGAGAAGCCTTCAGCTATTCAGCAAAGAGCTATTATCCCTTGTATTAAGGG
TATGATGTGATTGCTCAAGCTCAGTCAGGTACTGGCAAGACAGCCACATTTGCTATTTCCATCCTGCAAC
AGTTGGAGATTGAGTTCAAGGAGACCAAGCACTAGTATTGGCCCCACCAGAGAAGTGGCTCAACAGAT
CCAAAAGGTAATTTGGCTCTTGAGATTATATGGGAGCAACTTGTATGCTTGCATTGGAGGAACAAAT
GTTCGAAATGAAATGCAGAAGTTCAGGCTGAAGCCCCTCACATTGTTGTTGGTACTCCAGGGAGAGTGT
TTGATATGCTAACAGAGATACCTTTCTCCAAAATGGATCAAAATGTTTCGTTTTGGACGAAGCAGATGA
AATGTTGAGCCGAGGGTTAAGGATCAGATCTATGAGATTTTCCAGAAATTAATACAAGCATTCAAGTT
GTGTTGCTTTCTGCCACAATGCCAAGTGTGCTAGAAGTGACCAAGAAATTCATGAGAGATCCAATTC
GAATCTGGTGAAGAAGGAAGAATTGACCCTTGAAGGAATTAACAATTTTATATTAATGTTGAGCGGAGA
GGAGTGAAGCTGGACACTCTTTGTGACTTGATGAGACTTTGACTATCACACAAGCAGTTATTTTTCTC
AATACAAGGCGCAAGGTGGACTGGCTCACGGAGAAAATGCATGCCAGGGACTTCACAGTTTCTGCTCTGC
ATGGTGACATGGACCAGAAGGAAAGAGATGTCATCATGAGGGAATTCGATCAGGGTCAAGCCGTGTTCT
GATCACTACTGACTTGTGGCCCGTGGGATTGACGTGCAACAAGTGCCTTGGTTATAAACTACGATCTA
CCTACCAATCGTAAAATATATTCACAGAATTGGCAGAGGGGTCGATTTGGGAGGAAAGGTGTGGCTA
TAACTTTGTTACTGAAGAAGACAAGAGGATTCTTCGTGACATTGAGACTTTCTACAATACTACAGTGA
GGAAATGCCCATGAATGTGGCTGACCTAATT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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|-------------------------------|---|
| Restriction Sites: | Sgfl-Mlul |
| ACCN: | NM_013506 |
| Insert Size: | 1224 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: | NM_013506.3 , NP_038534.2 |
| RefSeq Size: | 2369 bp |
| RefSeq ORF: | 1224 bp |
| Locus ID: | 13682 |
| UniProt ID: | P10630 |
| Cytogenetics: | 16 13.93 cM |
| Gene Summary: | 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] Transcript Variant: This variant (1) encodes isoform a. |