

Product datasheet for **MC205882**

Eif4a1 (NM_144958) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eif4a1 (NM_144958) Mouse Untagged Clone
Tag: Tag Free
Symbol: Eif4a1
Synonyms: BM-010; Ddx2a; Eif4
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC049915
GGATCATGTCTGCGAGTCAGGATTCTCGATCCAGAGACAATGGCCCCGACGGGATGGAGCCGGAAGCGT
CATCGAGAGTAACCTGGAACGAGATTGTGGATAGCTTTGATGACATGAATCTCTCAGAGTCCCTCCTCCGT
GGTATTTATGCCTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCGAGCTATTCTTCTTGATCAAGG
GTTATGATGTGATTGCTCAAGCCAGTCTGGGACTGGGAAAACAGCTACATTTGCCATATCAATTCTGCA
GCAGATTGAATTAGATCTAAAGGCCACTCAGGCTTTGGTTCTGGCACCCACACGTGAATTGGCTCAGCAG
ATACAAAAGGTGGTTATGGCATTAGGAGACTACATGGGTGCCTCTGTGCATGCCTGCATTGGGGCACCA
ATGTCCGTGCTGAGGTGCAGAAGCTGCAGATGGAAGCTCCCCATATCATCGTGGTACCCTGGCCGGGT
GTTTGACATGCTTAACCGGAGATACCTGTCCCCAAATACATCAAGATGTTCTGACTGGATGAAGCAGAT
GAAATGTTAAGCCGAGGGTTCAAGGATCAGATCTATGACATATCCAGAAGCTCAACAGCAACACACAGG
TAGTTTTGTTGTCTGCTACAATGCCTTCTGATGTCCTTGAGGTGACCAAGAAATTTATGAGAGACCCTAT
TCGGATCTTGTCAAGAAGGAAGAATTGACCCTGGAGGGTATCCGCCAATTCTACATCAATGTGGAACGA
GAGGAGTGAAGCTTGACACATTGTGTGACTTGTATGAGACGCTGACCATCACCCAGGCAGTCATCTTTA
TCAACACCAGAAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCCCGAGATTTCACTGTTTCTGCCAT
GCACGGAGATAAGGACAAAAGGAACGAGATGTGATCATGAGGGAGTTCGGTCTGGCTCTAGCAGAGTA
TTAATTACCACTGACCTGTTGGCCAGAGGCATTGATGTGCAGCAGGTCTCCTTAGTCATCAACTATGACC
TTCCCACCAATAGGGAACACTACATCCACAGAATCGGTGAGGTGGTTCGGTTTGGTCGAAGGGTGTGGC
TATTAACATGGTGACTGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACTTTCTACAACACCTCCATT
GAAGAGATGCCCTCAACGTTGCTGACCTCATTGAGGGGCTGTCTGCGACCTGGCCCTAGCCCAGGGT
TCAGTCCCTGGGGTGGGGCTAAGGAAGAGCTGGAGGGGGAGGGGAGGGAGCCAAGGGATGGACATCTTGT
TTTTGTTTTGTT
AGGCCAA

Restriction Sites: RsrII-NotI
ACCN: NM_144958
Insert Size: 1221 bp



[View online »](#)

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>BC049915</u> , <u>AAH49915</u>
RefSeq Size:	1457 bp
RefSeq ORF:	1221 bp
Locus ID:	13681
UniProt ID:	<u>P60843</u>
Cytogenetics:	11 42.86 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 (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>