

Product datasheet for RN211914

Eif4a2 (NM_001008335) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4a2 (NM_001008335) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Eif4a2
Synonyms:	MGC94588
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN211914 representing NM_001008335 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCTGGTGGCTCCGCGGATTACAACAGAGAACATGGCGGCCAGAGGGAATGGACCCCGATGGTGTCA
TCGAGAGCAACTGGAATGAAATTGTTGATAACTTTGATGATATGAATTTAAAGGAGTCCCTTCTTCGAGG
CATCTATGCTTATGGTTTTGAGAAGCCTTCAGCTATTCAGCAGAGAGCTATAATCCCATGTATTAAGGA
TATGATGTGATTGCTCAAGCTCAGTCAGGTACTGGCAAGACAGCCACATTTGCTATTTCCATCCTGCAAC
AGTTGGAGATTGAGTTCAAGGAGACCAAGCACTAGTATTGGCCCCACCAGAGAAGTGGCTCAACAGAT
CCAAAAGGTCAATTTGGCTCTTGAGATTATATGGGAGCAACTTGTGATGCTTGCATTGGAGGAACAAAT
GTTGAAATGAAATGCAGAAGTTCAGGCTGAAGCCCCTCATATTGTTGTTGGCACTCCTGGGAGAGTAT
TTGATATGCTAACAGAGATACCTTTCTCCAAAATGGATCAAAATGTTGTTTGGATGAAGCAGATGA
AATGTTGAGCCGAGGTTAAGGATCAGATCTATGAGATTTTCCAAAAATTAATACAAGCATTCAAGTT
GTGTTACTTTCTGCCACAATGCCAAGTATGTCCTAGAAGTGACCAAGAAATTCATGAGAGATCCAATTC
GAATCTGGTGAAGAAGGAAGAATTGACCCTTGAAGGAATTAACAATTTATATTAATGTTGAGCGAGA
GGAGTGAAGCTGGACACTCTTTGTGACTTGATGAGACTTTGACTATCACACAAGCAGTTATTTTTCTC
AATACAAGGCGCAAGGTGGACTGGCTCACGGAGAAAATGCATGCCAGGGACTTCACAGTTTCTGCTCTGC
ATGGTGACATGGACCAGAAGAAAGAGATGTCATCATGAGGGAATTCGATCAGGGTCAAGCCGTGTTCT
GATCACTACTGACTTGTGGCTCGTGGGATTGATGTGCAACAAGTGCCTTGGTTATAAACTATGATCTA
CCTACCAATCGTAAAATATATTCACAGAATTGGCAGAGGGGTCGATTTGGGAGGAAAGGTGTGGCTA
TAACTTTGTTACTGAAGAAGACAAGAGGATTCTCGTGACATTGAGACTTTCTACAATACTACAGTGGA
GGAAATGCCCATGAATGTGGCTGACCTAATT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001008335
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_001008335.1 , NP_001008336.1
RefSeq Size:	1912 bp
RefSeq ORF:	1224 bp
Locus ID:	303831
UniProt ID:	Q5RKI1
Cytogenetics:	11q23
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 (By similarity).[UniProtKB/Swiss-Prot Function]