

Product datasheet for **RR211914**

Eif4a2 (NM_001008335) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eif4a2 (NM_001008335) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Eif4a2
Synonyms: MGC94588
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211914 representing NM_001008335
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTGGTGGCTCCGCGGATTACAACAGAGAACATGGCGGCCAGAGGGAAATGGACCCCGATGGTGTCA
 TCGAGAGCAACTGGAATGAAATTGTTGATAACTTTGATGATATGAATTTAAAGGAGTCCCTTCTTCGAGG
 CATCTATGCTTATGGTTTTGAGAAGCCTTCAGCTATTCAGCAGAGAGCTATAATCCCATGTATTAAGGA
 TATGATGTGATTGCTCAAGCTCAGTCAGGTACTGGCAAGACAGCCACATTTGCTATTTCCATCCTGCAAC
 AGTTGGAGATTGAGTTCAAGGAGACCAAGCACTAGTATTGGCCCCACCAGAGAAGTGGCTCAACAGAT
 CCAAAAGGTCATTTGGCTCTTGAGATTATATGGGAGCAACTTGTGATGCTTGCATTGGAGGAACAAAT
 GTTCGAAATGAAATGCAGAAGTTCAGGCTGAAGCCCCTCATATTGTTGTTGGCACTCCTGGGAGAGTAT
 TTGATATGCTAAACAGAAGATACCTTTCTCCAAAATGGATCAAAATGTTGTTTGGATGAAGCAGATGA
 AATGTTGAGCCGAGGGTTAAGGATCAGATCTATGAGATTTTCCAAAAATTAATACAAGCATTCAAGTT
 GTGTTACTTTCTGCCACAATGCCAAGTATGTCCTAGAAGTGACCAAGAAATTCATGAGAGATCCAATTC
 GAATCTGGTGAAGAAGGAAGAATTGACCCTTGAAGGAATTAACAATTTTATATTAATGTTGAGCGGAGA
 GGAGTGAAGCTGGACACTCTTTGTGACTTGATGAGACTTTGACTATCACACAAGCAGTTATTTTTCTC
 AATACAAGGCGCAAGGTGGACTGGCTCACGGAGAAAATGCATGCCAGGGACTTCACAGTTTCTGCTCTGC
 ATGGTGACATGGACCAGAAGGAAAGAGATGTCATCATGAGGGAATCCGATCAGGGTCAAGCCGTGTTCT
 GATCACTACTGACTTGTGGCTCGTGGGATTGATGTGCAACAAGTGCCTTGGTTATAAACTATGATCTA
 CCTACCAATCGTAAAATATATTCACAGAATTGGCAGAGGGGTCGATTTGGGAGGAAAGGTGTGGCTA
 TAACTTTGTTACTGAAGAAGACAAGAGGATTCCTCGTGACATTGAGACTTTCTACAATACTACAGTGA
 GAAATGCCCATGAATGTGGCTGACCTAATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211914 representing NM_001008335
Red=Cloning site Green=Tags(s)

MSGGSADYNREHGGPEGMPDGVIESNWNEIVDNFDDMNLKESLLRGIYAYGF EKPSAIQQRRAIIPCIGK
 YDVIAQAQSGTGKTATFAISILQQLIEFKETQALVLAPTRELAQQIQKVLALGDYMGATCHACIGGTN
 VRNEMQKLQAEAPHIVVGTGPRVFDMLNRRYLSPKWIKMFLVDEADEMLSRGFKDQIYEIFQKLNLSIQV
 VLLSATMPTDVLVETKKFMRDPIRILVKKEELTLEGIKQFYINVEREEWKLDTLCDLYETLTITQAVIFL
 NTRRKVDWLTEKMHARDFTVSALHGDMQKERDVMREFRSGSSRVLITDLLARGIDVQQVSLVINYDL
 PTNRENYIHRIGRGRFGRKGVAINFVTEEDKRILRDIETFYNTTVEEMPMNVADLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

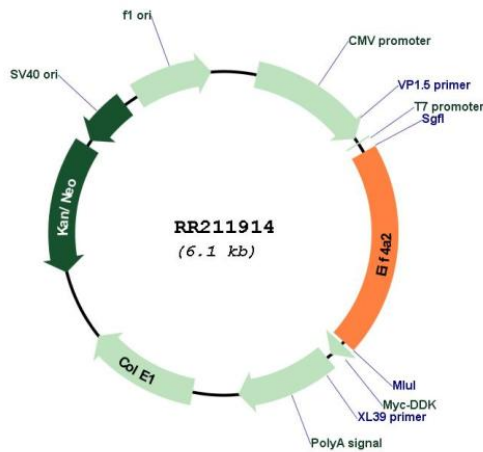
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001008335

ORF Size:	1221 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	Q5RK11
Cytogenetics:	11q23
MW:	46.4 kDa
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]