

Product datasheet for RN210968

Eif3a (NM_001047087) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif3a (NM_001047087) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Eif3a
Synonyms:	Eif3s10; ZH12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN210968 representing NM_001047087 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGCCTATTTCCAGAGGCCGAAAAATGCCCTCAAGCGGCCAACGAATTTCTTGAGGTTGGCAAAA
AGCAGCCTGCCCTGGATGTTCTTTATGATGTTATGAAAAGTAAGAAACACAGAACATGGCAGAAGATACA
CGAGCCAATTATGCTGAAATACTTGAAGTATGTGTGGATCTTCGTAAGAGCCACTTGGCTAAGGAAGGA
TTATATCAATATAAGAACATTTGTCAGCAGGTAACATTAATCTTTAGAAGATGTTGTTAGGGCATATT
TGAAATTAGCAGAGGAAAAACAGAAGCTGCTAAAGAAGAGTCCCAACAATGGTGTAGACATAGAAGA
TCTGGATAATATTCAGACTCCTGAGAGTGTCTCTTAAGTGCAGTAAGTGGGGAAGACACTCAGGATCGT
ACTGACAGATTGCTACTGACTCCCTGGGTCAAGTTCCTGTGGGAATCATACAGGCAGTGTGGACCTTC
TTGAAACAATTCTAGAGTAGAGCGTCTTTACCATGATATCGCCCAACAAGCTTTCAAATTCGCTCCA
GTATACTCGCAAGGCTGAGTTCGCAAGCTGTGTGACAACTTGCGAATGCACTTATCCCAGATTCAGCGC
CACCATAACCAAGTACAGCAATCAATCTTAATAATCCAGAGAGCCAGTCCATGCATTTGGAAACAGAC
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TGGACTATTTTCTTGTCTAAAAAACCACTAAGCCTCAGTTGATGGCAAATTAATAACAAAGTTTCA
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GAGAAATGAGAAAGAATCTTACACAAGATGAGATGCAAAGAATGTCTACTAGAGTCTTTTGGCGACTCT
TTCCATTCCTATTACTCCTGAGCGAACTGATATTGCACGACTTTTGGATATGGATGGTATTATAGTTGAG
AAGCAGCGGCCTTGGCACATTGCTAGGTCTTCAAGCACCACCCACAGAAATGGACTTATTAATGATA
TGGTCAGGTTTAAATGTGCTACAATATGTTGTCAGAAAGTAAAGACCTTTACAAGTGGTGGAGGTGGA
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GAACCAGAATTGCAACAATATGTGCCACAACACAGAACAATACCATACTCCGTCTTCTGCAACAGGTGG
CACAGATTTATCAGAGCATTGAGTTTTCTGTTGACCTCTCTGGTTCCTTTTGTGATGCTTTCCAAC
GGAACGGGCCATAGTAGATGCAGCTAGGCACTGTGACCTGCAGGTTTCGATTGACCATACTTCTCGGACT



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CTGAGTTTTGGATCAGACTTAAATTATGCAACTCGAGAAGATGCCCAATTGGTCTCATCTGCAGAGCA
 TGCTTCAGAACAATAAGAAATCAACTGACAGCCATGTCCTCGGTACTTGCAAAAGCGCTTGAAGTCAT
 CAAGCCTGCTCATATTCTGCAAGAGAAAAGAAGAACAGCATCAGTTGGCAGTTACTGCGTATATTAATAAT
 TCACGGAAAGAGCATCAGAGGATCTGGCTCGGAGACAGACAATTGAGGAGAGAAAAGAGCGTCTTGAGA
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 ATCAAGAAGAAAAGCTGTTCTGGGAGCGGTTAGAACAGATCAAGAAGACAGAGCTGGTGCCAAAGCATTTA
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 TGTGGGAACAACAAGAAGAAGAAAGAAATTAACAATGCAGCTAGAACGAGAAAAAGCTCTGGAACATAA
 GAATCGGATGTCACGAATGTTGGAAGACAGAGATCTATTTGTGATGCGGCTCAAAGCTGCCCGCAGTCT
 GTCTATGAGGAGAACTGAAACAGTTTGAAGAGCGTTTAGCAGAAGAAAGGCATAATCGCTGGAAGAAC
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 CTTAGAGAATATCAGGAGCGAGTCAAGAACTGGAAGAAGTAGAAAGGAAAAAGCGGCAAAGAGAGCTGG
 AAATTGAAGAAAAGGAAAAGACGCAGAGAGGAAGAAAGGAGACTTGGTGAGGATCCACTTTCTAGGAAGGA
 CTCTCGTTGGGGAGATAGAGATTGAGAAGGCACCTGGAGAAAAGGACCAGAAGCTGACTCTGAGTGGAGA
 AGAGGCCACCAGAAAAGGAGTGGAGACGAGAACTCGGGATGATGAGAGGCCTCACAGGAGAGATGAGG
 ATCGGCTGAGGCGCTTGGGGGGGACGATGAAGAGAGAGAGTCTCTTAGACCAGATGATGATCGCAT
 CCCCAGGCGTGGCTGGATGATGACAGAGGGCCTAGACGTGGTCCCGATGAAGATAGATTTTCTCGTAGA
 GGAACAGATGATACCGTCTTCTGCGTAAATGCAGATGATGACCGCCTCCAGGCGAATTGGTGATG
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 GGGATGGATGATGACCGGGGCCAAGACAGGAGGTGCTGATGATGAGCGGTATCCTGGCGGAATGCTG
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 AGAAATATGGATGACGATCGGTTCTAGACGGGGTATGATGCAAGACCTGGTCCCTGGAGACCATTG
 TCAAACAGGTGGATGGAGAGAGAAAAGAAAGGCTAGAGAAGAGAGTTGGGGTCCACCTCGAGAATCAAG
 ACCACCAGAAGAACGTGAATGGGATAGAGACAAAGAGAAGGACAGAGATAATCAAGATCGAGAGGAGAAC
 GACAAGGACCTTGAACGTGATAGGGACAGAGAGAGATGGGACCGGGAGGATCGTTTCAAGACCCA
 GGGATGAAGGTGGCTGGAGAAGAGGACAGCAGAAGAATCTTCAAGCTGGAGAGATTCAAGTCCCGTGA
 TGATAGGGACAGGGATGACCGACGGCGGACAGAGATGATCGTCTGATCTGAGAGACCTGAGAGACAGA
 AGGGATTTAAGAGATGATAGAGATCGGAGAGGCCCTCCCCTTAGATCAGAGCGAGAAGAAGCAAGCTCT
 GGAGACGCACTGATGACAGGAAAGATGACCGGACTGAAGAAAGGGATCCACCTCGTGTCTCTCCCC
 AACTCTTCAAGAGAGAGAGAAAAGAGAGAGATCGAGAAGGTGAGAAAGAGAAAGCATCTTGGAGAGCT
 GAGAAAGATAGGGAGTCCCTTCGTCGTAAGAATGAACTGATGAAGATGGATGGACCACAGTACGAC
 GTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001047087

Insert Size:

4065 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:	<u>NM_001047087.2, NP_001040552.2</u>
RefSeq Size:	5139 bp
RefSeq ORF:	4065 bp
Locus ID:	292148
UniProt ID:	<u>Q1JU68</u>
Cytogenetics:	1q55
Gene Summary:	RNA-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA ⁱ and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression.[UniProtKB/Swiss-Prot Function]