

Product datasheet for **RN215246**

Eif3c (NM_001100662) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif3c (NM_001100662) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Eif3c
Synonyms:	Eif3s8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN215246 representing NM_001100662
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCGGTTTTTCACCACCGCTCGGACAGTGAAGTGGAGTCCGTCCTGTCCGGGGAGGAGCTCGTCA
 CCAAACAGTCTCCGGGAAGTATGGCAAACAGCCTTTGTTACTGAGCGAGGATGAAGAGGATACAAAGAG
 AGTTGTTGCGAAGTCCAAGGACAAGAGGTTTGGAGAGCTGACCAACCTTATACGAACCATCCGTAATGCC
 ATGAAGATTCGAGATGTACCAAGTGTCTAGAAGAGTTTGAACCTCTGGGAAAAGCCTATGGGAAAAGCCA
 AGAGTATTGTGGATAAAGGAGGTGTCCCGGATTCTATGTCCGGATATTGGCTGACCTGGAGGACTATCT
 TAATGAGCTTTGGGAAGATAAGGAAGGGAAAAAGAAGTGAATAAAAAACAATGCCAAGGCTCTGAGTACA
 TTGCGCCAGAAGATCCGAAAATACAACCGAGATTTTGTGCTCACATACCAACTATAAGCAGAACCCTG
 AACAACTCTGCAGATGAAGATGCAGAAAAGAATGAGGAAGACTCAGAAGGCTCTTCAGATGAGGATGAAGA
 TGACGATGGAGTCAAGTGTACAGCCTTCTGAAGAAGAAACCAGACTCTTCTGGGGAGAGTCGAAAGTTC
 CACAAAAAGATGGAGGATGATGATGAGGACTCTGAAGATTCTGAGGATGAAGAATGGGACACCAGTTCCA
 CATCTTCTGATTGACTCCGAAGAAGAAGAAGGAAAAACAACCTGTTCTGGCCTCAAAGTTCCTTAAAAA
 GGCACCCACCACAGAGGAGGACAAAAAGGCAGCTGAAAAGAAACGGGAAGACAAAGCCAAGAAGAAGCAC
 GATAGGAAGTCTAAGCGCATGGATGAGGAAGAGGAGGACAATGAAGGCGGGGAGTGGGAACGGGTCCGAG
 GCGGCGTACCCTTGTAAAGGAGAAACCAAAAATGTTTGCCAAGGGAACAGAGATCACTCATGCTGTTGT
 CATCAAGAAGCTGAATGAGATTCTACAGGTCAGAGGCAAGAAGGGAACAGACCGTCTACCCAGATTGAA
 TTGCTCCAGCTGCTGGTTCAGATTGCTTCTGAAAAACAACCTGGGGTGGGTGTCATTGTCAAGATCAAGT
 TCAATATCATTGCCTCTCTACGATTACAACCTAACCTGGCCACGTACATGAAGCCAGAGATGTGGCA
 GATGTGCCTGGACTGTATCAATGAGTTGATGGATACCTTGGTTGCACATTCCAACATCTTTGTTGGAGAG
 AACATTTTGAAGAGAGTGAGAAGTACACAATTTTGTGAGCCACTGCGTGTACGAGGCTGCATCTTAA
 CTCTGGTGGAGCGAATGGATGAAGAATTTACAAAATAATGCAAATACTGATCCTCACTCCCAAGAGTA
 TGTGGAACATCTGAAGGATGAGGCACAAGTATGTGCCATCATTGAGCGTGTACAGCGCTACCTGGAGGAG
 AAAGGTACCCTGAGGAGATCTGCCAGATCTACTTGAAGGCGCATCTGCACACTTACTACAAGTTTGT
 ACAAGGCCATCAGCGTCAGCTTACTCCTCCGGAAGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAAA
 TGAGGGTGAAGGACTCAGCTGTGTAATGGAAAGACTGTGCAAATACATCTATGCCAAGACCGTACAGAC
 CGCATCCGTACCTGTGCCATCCTGTCCATATCTACCATCATGCGCTCCACTCCCGCTGGTATCAGGCCC
 GTGACCTCATGCTCATGAGCCACCTACAAGACAACATCCAGCACGACCCGCCAGTACAGATCCTGTA
 TAACCGTACCATGGTGAACCTGGGCATCTGTGCTTTCCGCAAGGCTGACAAAGGATGCACACAATGCA
 CTTCTGGATATTAGTCAAGTGGTCTGTCGAAGGAGCTTCTGGGCCAGGGTCTGCTGCTGCGCAGCCTCC
 AGGAGCGCAACCAGGAACAGGAGAAGGTAGAGCGACGCCGGCAGGTGCCCTTTCACCTGCACATCAACCT
 GGAAGTCTGGAGTGTGTATCTGGTGTCTGCTATGCTCCTGGAGATCCCCTACATGGCTGCCATGAG
 AGTGATGCCCGCCGACGCATGATCAGCAAGCAGTTCCATCACCACCTGCGGGTGGCGAGCGGCAGCCCC
 TGCTAGGTCTCCTGAGTCAATGAGGGAGCATGTGGTTGCTGCCTCCAAGGCCATGAAGATGGGTGACTG
 GAAGACCTGCCACAGTTTCATCATTAAATGAAAAGATGAATGGGAAAGTGGGACCTTTTCCCTGAGGCT
 GACAAAGTTCGCACCATGCTAGTTTCGGAAGATCCAGGAAGAGTCTCTGAGGACCTACCTTTTACCTATA
 GCAAGTGTCTATGACTCAATCAGTATGGAGACACTCTCAGATATGTTTGGCTGGATCTGCCCACTGTTCA
 CTCCATCATCAGCAAGATGATCATTAAATGAAGAATTGATGGCTTCCCTGGACCAGCCAACGCAGACGGTA
 GTGATGCACCGTACTGAGCCCACTGCCAACAGAACTTGGCTCTGCAGCTGGCTGAGAAGCTTGGCAGCC
 TAGTGGAGAATAATGAACGTGTGTTTACCATAAGCAAGGAACCTATGGCGGCTATTTCCGAGACCAAAA
 GGATGGCTACCGAAAAAATGAAGGCTATATGCGCCGTGGTGGCTACCGCCAGCAGCAGTCTCAGACAGCT
 TACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001100662
Insert Size:	2736 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_001100662.1</u> , <u>NP_001094132.1</u>
RefSeq Size:	3061 bp
RefSeq ORF:	2736 bp
Locus ID:	293484
UniProt ID:	<u>B5DFC8</u>
Cytogenetics:	1q36
Gene Summary:	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]