

## Product datasheet for **RN203215**

### Eif3g (NM\_001013095) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eif3g (NM_001013095) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Eif3g
Synonyms:	Eif3s4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN203215 representing NM_001013095 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGCCGACTGGCGACTTTGACTCGAAGCCAGCTGGGCCGACCAGGTGGAAGAGGAGGGAGAGGACGACA  
AGTGTGTACACGAGCTCCTGAAAGGAATCCCTCTGCCACCGGTGACACAGTCCAGAGCCGGAGTT  
ACTTCTGGAGACCCACTGCCACCTCCAAGGAAGTCATCAATGGGAACATAAAGACGGTGACTGAGTAC  
AAGGTAGAGGAAGATGGGAAGAAGTTCAAGATTGTCAGAACCTTCAGAATTGAGACCCGGAAGGCATCAA  
AGGCTGTGGCCAGGAGGAAGAATTGGAAGAAGTTGGCAACTCAGAGTTTGACCCGCCAGGGCCCAATGT  
AGCCACTACCACAGTCAGTGATGACGTCTCCATGACATTCATCACTAGCAAAGAGGACCTGAAGTCCAG  
GAGGAGGAGGACCAATGAACAAGCTCAAGGGCCAGAAGATCGTGTCTGCCGCATTTGCAAGGGCGACC  
ATTGGACCACCGCTGCCCTACAAGGACACACTAGGACCATGCAGAAGGAGCTGGCTGAGCAGCTGGG  
CCTGTCTACCGGGGAGAAGGAGAAATTGCCAGGAGAACTGGAGCCTGTGCAGGCCGCCAGAACAGACA  
GGGAAGTATGTGCTCTAGTCTCCGGGACGGGCAAGCCGCCGTGGGGAGTCTATGCAGCCAAACCGCA  
GAGCTGATGACAATGCCACCATCCGTGTCTACTAATCTGTCTGAGGACACTCGTGAGACTGACTTACAGGA  
ACTCTTCCGGCCTTTTGCTCCATCTCCGAATCTACTTGCCAAGGACAAGACCACTGGGCAGTCCAAG  
GGTTTTGCCTTTATCAGCTTTACCGCCGGGAGGATGCTGCGCGTGCCATTGCAGGGGTGTCTGGCTTTG  
GCTACGACCATCTTATCTCAATGTCTGAGTGGGCCAAGCCTTCAACGAATTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001013095



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<b>Insert Size:</b>	963 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001013095.1</a></u> , <u><a href="#">NP_001013113.1</a></u>
<b>RefSeq Size:</b>	1070 bp
<b>RefSeq ORF:</b>	963 bp
<b>Locus ID:</b>	298700
<b>UniProt ID:</b>	<u><a href="#">Q5RK09</a></u>
<b>Cytogenetics:</b>	8q13
<b>Gene Summary:</b>	<p>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<sup>i</sup> 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. This subunit can bind 18S rRNA.</p> <p>[UniProtKB/Swiss-Prot Function]</p>