

Product datasheet for **RR203215**

Eif3g (NM_001013095) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eif3g (NM_001013095) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Eif3g
Synonyms: Eif3s4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR203215 representing NM_001013095
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCGACTGGCGACTTTGACTCGAAGCCAGCTGGGCCGACCAGGTGGAAGAGGAGGGAGAGGACGACA
AGTGTGCACCAGCGAGCTCCTGAAAGGAATCCCTCTGCCACCGGTGACACCAGTCCAGAGCCGGAGTT
ACTTCTGGAGACCCACTGCCACCTCCAAGGAAGTCATCAATGGGAACATAAAGACGGTGACTGAGTAC
AAGGTAGAGGAAGATGGGAAGAAGTTCAAGATTGTCAGAACCTTCAGAATTGAGACCCGGAAGGCATCAA
AGGCTGTGGCCAGGAGGAAGAATTGGAAGAAGTTTGGCAACTCAGAGTTTGACCCGCCAGGGCCCAATGT
AGCCACTACCACAGTCAGTGATGACGTCTCCATGACATTCATCACTAGCAAAGAGGACCTGAACTGCCAG
GAGGAGGAGGACCCAATGAACAAGCTCAAGGGCCAGAAGATCGTGTCTGCCGATTTGCAAGGGCGACC
ATTGGACCACCCGCTGCCCTACAAGGACACACTAGGACCCATGCAGAAGGAGCTGGCTGAGCAGCTGGG
CCTGTCTACCGGGGAGAAGGAGAAATTGCCAGGAGAACTGGAGCCTGTGCAGGCCGCCAGAACAAAGACA
GGGAAGTATGTGCCTCCTAGTCTCCGGGACGGGCAAGCCGCGTGGGGAGTCTATGCAGCCAAACCGCA
GAGCTGATGACAATGCCACCATCCGTGTCATAATCTGTCTGAGGACACTCGTGAGACTGACTTACAGGA
ACTCTTCCGGCCTTTTGGCTCCATCTCCCGAATCTACTTGGCCAAGGACAAGACCACTGGGCAGTCCAAG
GGTTTTGCCTTTATCAGCTTTCACCGCCGGGAGGATGCTGCGCGTGCCATTGCAGGGGTGTCTGGCTTTG
GCTACGACCATCTTATCCTCAATGTCGAGTGGGCCAAGCCTTCAACGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203215 representing NM_001013095
Red=Cloning site Green=Tags(s)

MPTGDFDSKPSWADQVEEEGEDDKCVTSELLKGIPLPTGDTSPPELLPGDPLPPPKEVINGNIKTVTEY
 KVEEDGKKFKIVRTFRIETRKASKAVARRKNWKKFGNSEFDPPGPNVATTTVSDDVSMTFITSKEDLNCQ
 EEEDPMNKLKGQKIVSCRICKGDHWTTRCPYKDTLGPMPQKELAEQLGLSTGEKEKLPGELEPVQAAQNKT
 GKYPVPSLRDGASRRGESMQPNRRADDNATIRVTNLSEDTRETLQELFRPFGSISRIYLAKDKTTGQSK
 GFAFISFHRREDAARAIAGVSGFGYDHLILNVEWAKPSTN

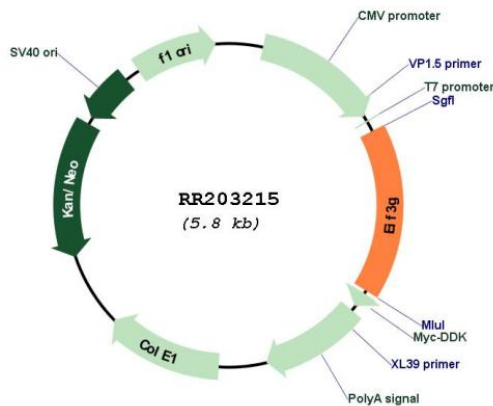
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001013095

ORF Size: 960 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_001013095.1 , NP_001013113.1
RefSeq Size:	1070 bp
RefSeq ORF:	963 bp
Locus ID:	298700
UniProt ID:	Q5RK09
Cytogenetics:	8q13
MW:	35.7 kDa
Gene Summary:	<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-tRNAⁱ 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>