

Product datasheet for **RG231286**

eIF4GII (EIF4G3) (NM_001198803) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	eIF4GII (EIF4G3) (NM_001198803) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	eIF4GII
Synonyms:	eIF-4G 3; eIF4G 3; eIF4GII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG231286 representing NM_001198803
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATTCACAACCTCAAACCCGTTCTCCGTTTGCAGCGGGCCTCGACCTCCCCATCATCAGTTTTTCC
 AGAGGCCCTCAAATACAGCTCCTAGAGCTACCATCCCGAACAGCAGTCCCTCCATTTCGTCCTGGTGACA
 GACACCCACTGCAGTGTACCAGGCTAATCAGCACATCATGATGGTTAACCATCTGCCATGCCGTACCCA
 GTGCCCCAGGGCCTCAGTACTGTATACCACAGTACCGTCATAGTGGCCCTCCTTATGTTGGGCCCCCCC
 AACAAATCCAGTTCAACCACGGGGCCAGGTCCTTTTTATCCTGGACCAGGACCTGGGGACTTCCCAA
 TGCTTATGGAACGCCTTTTTACCAAGTCAGCCGGTGTATCAGTCAGCACCTATCATAGTGCCTACGCAG
 CAACAGCCGCCTCCAGCCAAGAGAGAGAAAAAACTATAAGAATTCGGGATCCAAACCAGGGAGGTAAG
 ACATAACAGAGGAGATTATGTCTGGAGGTGGCAGCAGAAATCCTACTCCACCCATAGGAAGACCCACGTC
 CACACCTACTCCTCCTCAGCAGTGCACAGCCAGGTCGCCGAGCAGCCCTGTGGTTTATGGGACTGTG
 GAGAGCGCTCATCTTGCTGCCAGCACCCCTGTCACTGCAGCTAGCGACCAGAAGCAAGAGGAGAAGCCAA
 AACAGATCCAGTGTAAAGTCTCCTTCCCAAGTCTTAGGCTAGTCTCAGTGGAGAGAAGAAAGAAC
 AGAAGGCCAGACATCTGAACTACTGCAATAGTATCCATAGCAGAGCTTCTCTGCCTCCATCACCTACC
 ACTGTTTCTTCTGTTGCTCGAAGTACAATTGCAGCCCCACCTTCTGCTTCTAGTAGCCAACCAATAT
 TCACCAGTGTATAGATGACAGATGTGAAGTCTCATCCCCAAGAGAAGACACAATTCCTATACCCAGCCT
 CACATCTTGCACAGAAACATCAGACCCCTTACCAACAAATGAAAAATGATGATGATATATGCAAGAAACCC
 TGTAGTGTAGCACCTAATGATATCCACTGGTTTCTAGTACTAACCTAATTAATGAAATAAATGGAGTTA
 GCGAAAAATTATCAGCCACGGAGAGCATTGTGAAATAGTAAAAACAGGAAGTATGGCATTGACTCTTGA
 ATTGGAGATTCTCGAAAAATCCCCAGAAGAAATGAAACTGGAGTGTATCCAGCTCCCATACCCCTTCC
 ACAGTTCTTCTTCTTCCCAACTCCTCCAACCTCCAGCTTCTCCTCCTCACACTCCAGTCATTGTTT
 CTGCTGCTGCCACTACTGTTAGTCTCCGAGTGTGCCATCACAGTCCAGAGAGTCTAGAGGAGGACGA
 GAGCATAAGAAGTTCCTTAGTGAAGATGCAAAAGAGATTCAGAACAAAATAGAGGTAGAAGCAGATGGG
 CAAACAGAAGAGATTTGGATTCTCAAACCTAAATTCAAGAAGGAGCCCTGTCCAGAAACATCGAATG
 AATGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG231286 representing NM_001198803
 Red=Cloning site Green=Tags(s)

MNSQPQTRSPFAAGPRPPHHQFFQRPQIQPPRATIPNSSPSIRPGAQTPTAVYQANQHIMMVNHLMPYP
 VPQGPQYCIQYRHSPPYVGGPPQYYPVQPPGPGPFYPGPGDFPNAYGTPFYPSQPVYQSAPIIVPTQ
 QQPPPAKREKKTIRIRDPNQGGKDITEEIMSGGSRNPTPIGRPTSTPTPPQQLPSQVPEHSPVYVGT
 ESAHLAASTPVTAASDQKQEEKPKPDPVLKSPSPVLRLLVLSGEKKEQEQTSETTAIVSIAELPLPPSPT
 TVSSVARSTIAAPTSSALSSQPIFTTAIDDRCELSSPREDTIPIPSLTSTETSDPLPTNENDDICKKP
 CSVAPNDIPLVSTNLININEINGVSEKLSATESIVEIVKQEVLPLELEILENPPPEEMKLECIPIAPITPS
 TVPSFPPTPTPPASPPHTPVIVPAAATTVSSPSAAITVQRVLEEDSIRTCLESDAKEIQNKIEVEADG
 QTEEILDSQNLNSRRSPVETSNEC

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001198803

ORF Size: 1545 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:

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_001198803.2](#)

RefSeq Size: 2213 bp

RefSeq ORF: 1548 bp

Locus ID: 8672

UniProt ID: [O43432](#)

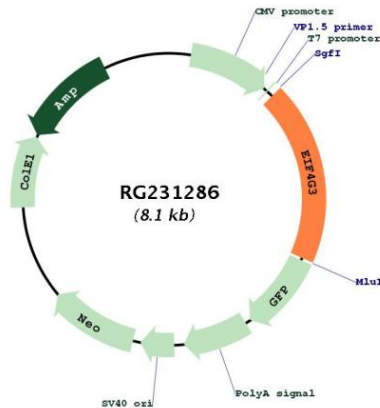
Cytogenetics: 1p36.12

Protein Families: Transcription Factors

Protein Pathways: Viral myocarditis

Gene Summary: The protein encoded by this gene is thought to be part of the eIF4F protein complex, which is involved in mRNA cap recognition and transport of mRNAs to the ribosome. Interestingly, a microRNA (miR-520c-3p) has been found that negatively regulates synthesis of the encoded protein, and this leads to a global decrease in protein translation and cell proliferation. Therefore, this protein is a key component of the anti-tumor activity of miR-520c-3p. [provided by RefSeq, May 2016]

Product images:



Circular map for RG231286