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# Product datasheet for RC231488

## eIF4GII (EIF4G3) (NM_001198801) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | eIF4GII (EIF4G3) (NM_001198801) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | EIF4G3 |
| **Synonyms:** | eIF-4G 3; eIF4G 3; eIF4GII |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |
| **ORF Nucleotide Sequence:** | >RC231488 representing NM_001198801<br>Red=Cloning site Blue=ORF Green=Tags(s)<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGAATTCACAACCTCAAACCCGTTCTCCGTTTTTCCAGAGGCCTCAAATACAGCCTCCTAGAGCTACCA<br>TCCCGAACAGCAGTCCTTCCATTCGTCCTGGTGCACAGACACCCACTGCAGTGTACCAGGCTAATCAGCA<br>CATCATGATGGTTAACCATCTGCCCATGCCGTACCCAGTGCCCCAGGGGCCTCAGTACTGTATACCACAG<br>TACCGTCATAGTGGCCCTCCTTATGTTGGGCCCCCCCAACAATATCCAGTTCAACCACCGGGGCCAGGTC<br>CTTTTTATCCTGGACCAGGACCTGGGGACTTCCCCAATGCTTATGGAACGCCTTTTTACCCAAGTCAGCC<br>GGTGTATCAGTCAGCACCTATCATAGTGCCTACGCAGCAACAGCCGCCTCCAGCCAAGAGAGAGAAAAAA<br>ACTATAAGAATTCGGGATCCAAACCAGGGAGGTAAAGACATAACAGAGGAGATTATGTCTGGAGGTGGCA<br>GCAGAAATCCTACTCCACCCATAGGAAGACCCACGTCCACACCTACTCCTCCTCAGCTGCCCAGCCAGGT<br>CCCCGAGCACAGCCCTGTGGTTTATGGGACTGTGGAGAGCGCTCATCTTGCTGCCAGCACCCCTGTCACT<br>GCAGCTAGCGACCAGAAGCAAGAGGAGAAGCCAAAACCAGATCCAGTGTTAAAGTCTCCTTCCCCAGTCC<br>TTAGGCTAGTCCTCAGTGGAGAGAAGAAAGAACAAGAAGGCCAGACATCTGAAACTACTGCAATAGTATC<br>CATAGCAGAGCTTCCTCTGCCTCCATCACCTACCACTGTTTCTTCTGTTGCTCGAAGTACAATTGCAGCC<br>CCCACCTCTTCTGCTCTTAGTAGCCAACCAATATTCACCACTGCTATAGATGACAGATGTGAACTCTCAT<br>CCCCAAGAGAAGACACAATTCCTATACCCAGCCTCACATCTTGCACAGAAACATCAGACCCTTTACCAAC<br>AAATGAAAATGATGATGATATATGCAAGAAACCCTGTAGTGTAGCACCTAATGATATTCCACTGGTTTCT<br>AGTACTAACCTAATTAATGAAATAAATGGAGTTAGCGAAAAATTATCAGCCACGGAGAGCATTGTGGAAA<br>TAGTAAAACAGGAAGTATTGCCATTGACTCTTGAATTGGAGATTCTCGAAAATCCCCCAGAAGAAATGAA<br>ACTGGAGTGTATCCCAGCTCCCATCACCCCTTCCACAGTTCCTTCCTTTCCTCCAACTCCTCCAACTCCT<br>CCAGCTTCTCCTCCTCACACTCCAGTCATTGTTCCTGCTGCTGCCACTACTGTTAGTTCTCCGAGTGCTG<br>CCATCACAGTCCAGAGAGTCCTAGAGGAGGACGAGAGCATAAGAACTTGCCTTAGTGAAGATGCAAAAGA<br>GATTCAGAACAAAATAGAGGTAGAAGCAGATGGGCAAACAGAAGAGATTTTGGATTCTCAAAACTTAAAT<br>TCAAGAAGGAGCCCTGTCCCAGCTCAAATAGCTATAACTGTACCAAAGACATGGAAGAAACCAAAAGATC |



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**Protein Sequence:**

>RC231488 representing NM_001198801
Red=Cloning site Green=Tags(s)

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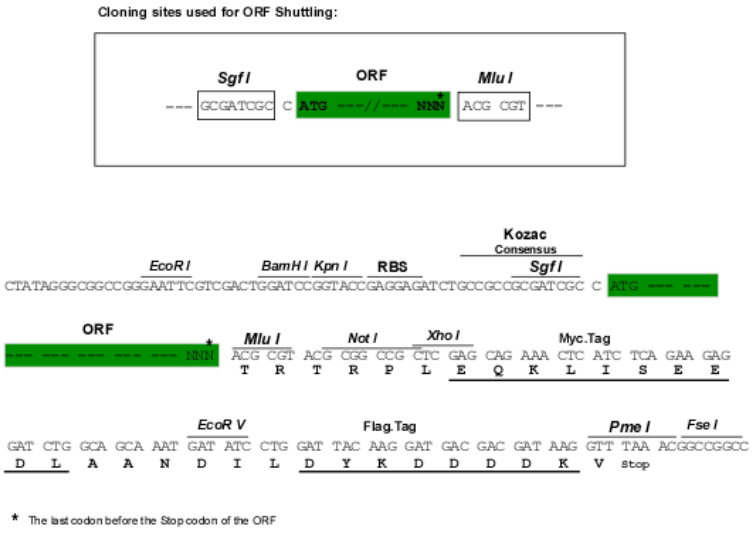
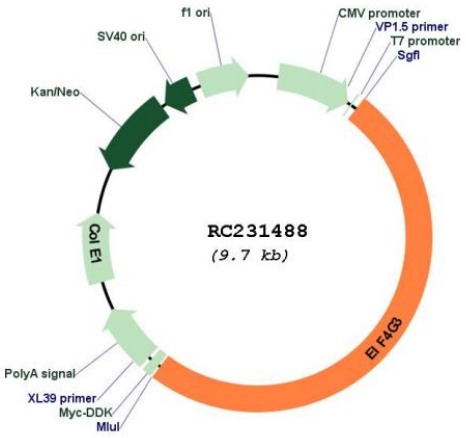
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



Plasmid Map:

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| **ACCN:** | NM_001198801 |
| **ORF Size:** | 4863 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001198801.2 |
| **RefSeq ORF:** | 4866 bp |
| **Locus ID:** | 8672 |

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|---|---|
| **UniProt ID:** | O43432 |
| **Cytogenetics:** | 1p36.12 |
| **Protein Families:** | Transcription Factors |
| **Protein Pathways:** | Viral myocarditis |
| **MW:** | 180.9 kDa |
| **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] |