

# Product datasheet for RC231488L3

### OriGene Technologies, Inc.

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## elF4GII (EIF4G3) (NM\_001198801) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: eIF4GII (EIF4G3) (NM\_001198801) Human Tagged Lenti ORF Clone

Tag: Myc-DDK Symbol: eIF4GII

**Synonyms:** eIF-4G 3; eIF4G II

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC231488).

Sgfl-Mlul

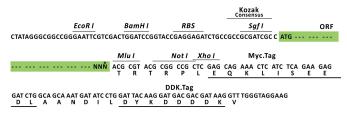
Sequence:

Restriction Sites: Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf 1 ORF Mlu I

--- GCG ATC GCC ATG --- // --- NNN ACG CGT ---



<sup>\*</sup> The last codon before the Stop codon of the ORF.

ACCN: NM\_001198801

ORF Size: 4863 bp





#### eIF4GII (EIF4G3) (NM\_001198801) Human Tagged Lenti ORF Clone - RC231488L3

**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:** <u>NM 001198801.1</u>

 RefSeq ORF:
 4866 bp

 Locus ID:
 8672

 UniProt ID:
 043432

Cytogenetics:

**Protein Families:** Transcription Factors

1p36.12

**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]