

## Product datasheet for RC207735L3V

## OriGene Technologies, Inc.

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## Translation factor GUF1, mitochondrial (GUF1) (NM\_021927) Human Tagged ORF Clone Lentiviral Particle

**Product data:** 

**Product Type:** Lentiviral Particles

Product Name: Translation factor GUF1, mitochondrial (GUF1) (NM\_021927) Human Tagged ORF Clone

Lentiviral Particle

**Symbol:** Translation factor GUF1, mitochondrial

Synonyms: DEE40; EF-4; EF4; EIEE40

**Mammalian Cell** 

Selection:

Puromycin

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

 Tag:
 Myc-DDK

 ACCN:
 NM\_021927

ORF Size: 2007 bp

**ORF Nucleotide** 

The ORF insert of this clone is exactly the same as(RC207735).

**OTI Disclaimer:** 

Sequence:

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.

**RefSeq:** <u>NM 021927.1</u>

 RefSeq Size:
 4230 bp

 RefSeq ORF:
 2010 bp

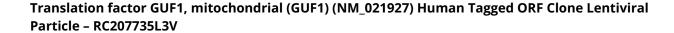
 Locus ID:
 60558

 UniProt ID:
 Q8N442

 Cytogenetics:
 4p12

**Domains:** EFG\_C, GTP\_EFTU, GTP\_EFTU\_D2







MW: 74.3 kDa

**Gene Summary:** This gene encodes a GTPase that triggers back-translocation of the elongating ribosome

during mitochondrial protein synthesis. The protein contains a highly conserved C-terminal domain not found in other GTPases that facilitates tRNA binding. The encoded protein is thought to prevent misincorporation of amino acids in stressful, suboptimal conditions. An allelic variant in this gene has been associated with early infantile epileptic encephalopathy-40. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]