

# **Product datasheet for MR202403L3**

### Eif4e (BC010759) Mouse Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Eif4e (BC010759) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Eif4e

Synonyms: Eif4e-ps, eIF-4E

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(MR202403).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





 $<sup>\</sup>ensuremath{^*}$  The last codon before the Stop codon of the ORF.

**ACCN:** BC010759 **ORF Size:** 651 bp



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### Eif4e (BC010759) Mouse Tagged Lenti ORF Clone - MR202403L3

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

**RefSeq:** <u>BC010759.1</u>

RefSeq Size: 1646 bp

RefSeq ORF: 653 bp

**Locus ID:** 13684

Cytogenetics: 3 64.3 cM

**Gene Summary:** This gene encodes a component of the eukaryotic translation initiation factor 4F complex,

which recognizes the 7-methylguanosine cap structure at the 5' end of messenger RNAs. The encoded protein aids in translation initiation by recruiting ribosomes to the 5'-cap structure.

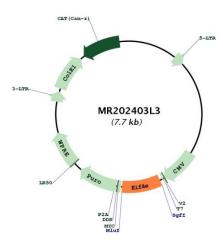
Association of this protein with the 4F complex is the rate-limiting step in translation

initiation. This gene acts as a proto-oncogene, and its expression and activation is associated with transformation and tumorigenesis. It has also been associated with autism spectrum disorders. Consistently, knockout of this gene results in increased translation of neuroligins, postsynaptic proteins linked to autism spectrum disorders. Pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants.

[provided by RefSeq, Sep 2015]



# **Product images:**



Circular map for MR202403L3