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Product datasheet for MR226833L4V

Eif4e (NM_007917) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Eif4e (NM_007917) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Eif4e
Synonyms:	EG668879; eIF-4; eIF-4E; Eif4e-ps; If4; If4e
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_007917
ORF Size:	654 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR226833).
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.
RefSeq:	NM_007917.3
RefSeq Size:	2882 bp
RefSeq ORF:	654 bp
Locus ID:	13684
UniProt ID:	P63073
Cytogenetics:	3 64.3 cM

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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]