

## Product datasheet for **MR211654L3V**

### Eif2ak3 (NM\_010121) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Eif2ak3 (NM_010121) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Eif2ak3
Synonyms:	PE; Pek; Perk
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_010121
ORF Size:	3342 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR211654).
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. <a href="#">More info</a>
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:	<a href="#">NM_010121.2</a> , <a href="#">NP_034251.2</a>
RefSeq Size:	4512 bp
RefSeq ORF:	3345 bp
Locus ID:	13666
Cytogenetics:	6 C1



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**Gene Summary:**

The protein encoded by this gene phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2, leading to its inactivation, and thus to a rapid reduction of translational initiation and repression of global protein synthesis. This protein is thought to modulate mitochondrial function. It is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by malformed proteins. Mutations in a similar gene in human are associated with Wolcott-Rallison syndrome. [provided by RefSeq, Sep 2015]