

Product datasheet for MC203473

Eif2ak3 (NM_010121) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif2ak3 (NM_010121) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eif2ak3
Synonyms:	PE; Pek; Perk
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC054809

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CGGAACCCTCGCTCAATGGGCGATGCTGCACAAGGCTGTCACTCAGGTGGCAGTGGCTGAGACGTGGCC
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TGATTTAATAAAAAAATTTTAAATTATAAAAAAAAAAAAAAAAAAAAA
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- Restriction Sites:** Ascl-NotI
- ACCN:** NM_010121
- Insert Size:** 3345 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: [BC054809](#), [AAH54809](#)

RefSeq Size: 4524 bp

RefSeq ORF: 3345 bp

Locus ID: 13666

Cytogenetics: 6 C1

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.