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Product datasheet for RC214993L2V

PERK (EIF2AK3) (NM_004836) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	PERK (EIF2AK3) (NM_004836) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PERK
Synonyms:	PEK; PERK; WRS
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_004836
ORF Size:	3348 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC214993).
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_004836.3
RefSeq Size:	4511 bp
RefSeq ORF:	3351 bp
Locus ID:	9451
UniProt ID:	Q9NZJ5
Cytogenetics:	2p11.2
Domains:	pkinase, TyrKc, S_TKc, PQQ
Protein Families:	Druggable Genome, Protein Kinase, Secreted Protein, Transmembrane

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Protein Pathways: Alzheimer's disease

MW: 125.26 kDa

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 malfolded proteins. Mutations in this gene are associated with Wolcott-Rallison syndrome. [provided by RefSeq, Sep 2015]