

Product datasheet for **MR222048L3V**

Akap1 (NM_009648) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Akap1 (NM_009648) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Akap1
Synonyms:	Akap; AKAP84; AKAP121; C76494; C81186; DAKAP1; S-AKAP84
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_009648
ORF Size:	2571 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR222048).
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_009648.2 , NP_033778.2
RefSeq Size:	3721 bp
RefSeq ORF:	2574 bp
Locus ID:	11640
UniProt ID:	O08715
Cytogenetics:	11 C



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Gene Summary:

Differentially targeted protein that binds to type I and II regulatory subunits of protein kinase A. Anchors them to the cytoplasmic face of the mitochondrial outer membrane or allows them to reside in the endoplasmic reticulum. Does not contain the classic KDEL endoplasmic reticulum-targeting sequence. This explains how it is able to switch its localization, either being in the endoplasmic reticulum or in the mitochondria depending on which N-terminal part begins the isoform. The longest N-terminal part only present in isoform 2 and isoform 4 acts as a suppressor of mitochondrial targeting and as an activator of recessive endoplasmic reticulum targeting motif.[UniProtKB/Swiss-Prot Function]