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Product datasheet for MR227045L3V

Camk2a (NM_009792) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Camk2a (NM_009792) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Camk2a
Synonyms:	CaMKII; mKIAA0968; R74975
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_009792
ORF Size:	600 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR227045).
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. <u>More info</u>
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:	<u>NM 009792.3, NP 033922.1</u>
RefSeq Size:	4268 bp
RefSeq ORF:	603 bp
Locus ID:	12322
UniProt ID:	<u>P11798</u>
Cytogenetics:	18 34.41 cM



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Gene Summary:Calcium/calmodulin-dependent protein kinase that functions autonomously after
Ca(2+)/calmodulin-binding and autophosphorylation, and is involved in synaptic plasticity,
neurotransmitter release and long-term potentiation. Member of the NMDAR signaling
complex in excitatory synapses, it regulates NMDAR-dependent potentiation of the AMPAR
and therefore excitatory synaptic transmission (By similarity). Regulates dendritic spine
development. Also regulates the migration of developing neurons (By similarity).
Phosphorylates the transcription factor FOXO3 to activate its transcriptional activity
(PubMed:23805378).[UniProtKB/Swiss-Prot Function]

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