

Product datasheet for **MR222176L3V**

Dgkh (NM_001081336) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Dgkh (NM_001081336) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Dgkh
Synonyms:	5930402B05Rik; D130015C16; DGK
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001081336
ORF Size:	3468 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR222176).
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_001081336.1 , NP_001074805.1
RefSeq Size:	3967 bp
RefSeq ORF:	3543 bp
Locus ID:	380921
UniProt ID:	D3YXJ0
Cytogenetics:	14 D3



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Gene Summary:

Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:27643686). Thereby, acts as a central switch between the signaling pathways activated by these second messengers with different cellular targets and opposite effects in numerous biological processes (Probable). Plays a key role in promoting cell growth. Activates the Ras/B-Raf/C-Raf/MEK/ERK signaling pathway induced by EGF. Regulates the recruitment of RAF1 and BRAF from cytoplasm to membranes and their heterodimerization (By similarity). [UniProtKB/Swiss-Prot Function]