

Product datasheet for RC217053

DGKD (NM_152879) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKD (NM_152879) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DGKD
Synonyms:	DGK-delta; dgkd-2; DGKdelta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217053 representing NM_152879 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC217053 representing NM_152879
 Red=Cloning site Green=Tags(s)

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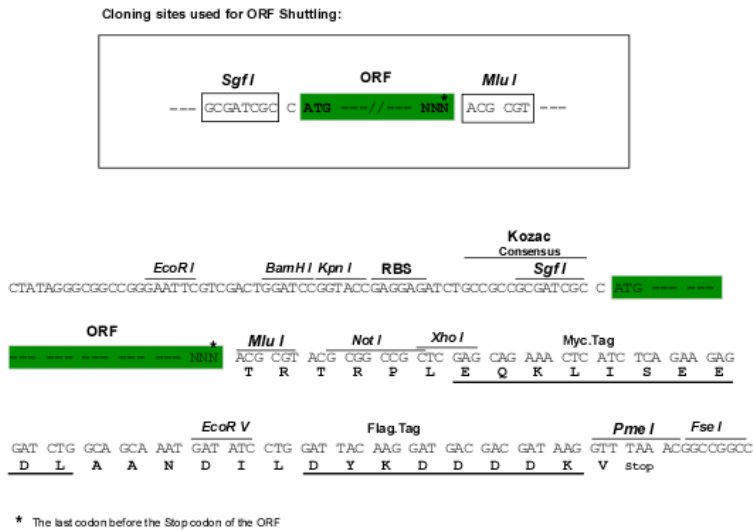
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Chromatograms: https://cdn.origene.com/chromatograms/mk8017_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

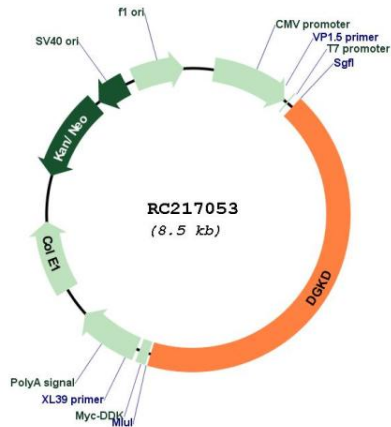


ACCN: NM_152879

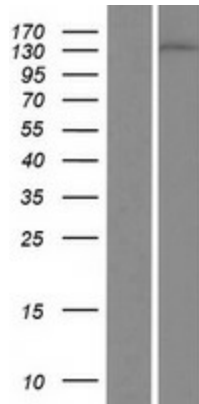
ORF Size: 3642 bp

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.
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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_152879.3
RefSeq Size:	6294 bp
RefSeq ORF:	3645 bp
Locus ID:	8527
UniProt ID:	Q16760
Cytogenetics:	2q37.1
Protein Families:	Druggable Genome
Protein Pathways:	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
MW:	134.3 kDa
Gene Summary:	This gene encodes a cytoplasmic enzyme that phosphorylates diacylglycerol to produce phosphatidic acid. Diacylglycerol and phosphatidic acid are two lipids that act as second messengers in signaling cascades. Their cellular concentrations are regulated by the encoded protein, and so it is thought to play an important role in cellular signal transduction. Alternative splicing results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

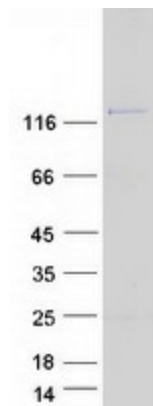
Product images:



Circular map for RC217053



Western blot validation of overexpression lysate (Cat# [LY407249]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217053 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DGKD protein (Cat# [TP317053]). The protein was produced from HEK293T cells transfected with DGKD cDNA clone (Cat# RC217053) using MegaTran 2.0 (Cat# [TT210002]).