

Product datasheet for RC222395L3

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OriGene Technologies, Inc.

DGKA (NM_001345) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: DGKA (NM_001345) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: DGKA

Synonyms: DAGK; DAGK1; DGK-alpha

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC222395).

Sgfl-Mlul

Sequence:

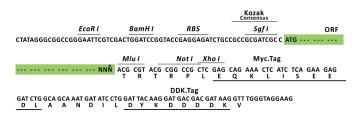
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Restriction Sites: Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf 1 ORF Mlu 1

--- GCG ATC GCC ATG --- // --- NNN ACG CGT ---



^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001345

ORF Size: 2205 bp





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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: 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.

RefSeq: NM 001345.4

RefSeq Size: 2756 bp RefSeq ORF: 2208 bp Locus ID: 1606 **UniProt ID:** P23743

Cytogenetics:

12q13.2 Domains: DAGKa, DAGKc, EFh, DAG PE-bind

Protein Families: Druggable Genome

Protein Pathways: Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways,

Phosphatidylinositol signaling system

MW: 82.5 kDa

Gene Summary: The protein encoded by this gene belongs to the eukaryotic diacylglycerol kinase family. It

> acts as a modulator that competes with protein kinase C for the second messenger diacylglycerol in intracellular signaling pathways. It also plays an important role in the resynthesis of phosphatidylinositols and phosphorylating diacylglycerol to phosphatidic acid.

Several transcript variants encoding different isoforms have been identified for this gene.

[provided by RefSeq, Apr 2017]