

Product datasheet for **RC222395**

DGKA (NM_001345) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKA (NM_001345) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DGKA
Synonyms:	DAGK; DAGK1; DGK-alpha
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

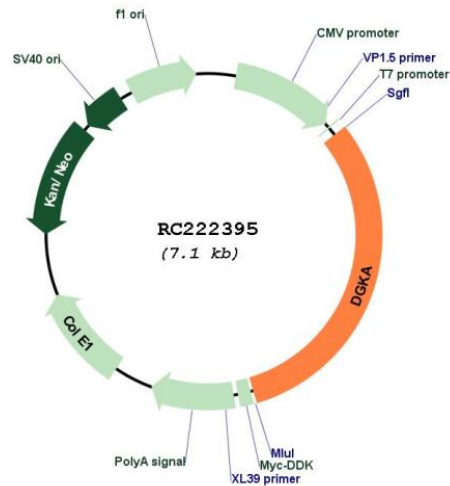
>RC222395 representing NM_001345
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAAGGAGAGGGGCTAATAAGCCCCAGTGATTTGCCAGCTGCAAAAATACATGGAATACTCCA
CCAAAAGGTCAGTGATGTCCTAAAGCTCTCGAGGATGGCGAGATGGCTAAATATGTCCAAGGAGATGC
CATTGGGTACGAGGGATTCCAGCAATTCCTGAAAATCTATCTCGAAGTGATAATGTTCCAGACACCTA
AGCCTGGCACTGTTTCAATCCTTTGAGACTGGTCACTGCTTAAATGAGACAAATGTGACAAAAGATGTGG
TGTGTCTCAATGATGTTTCTGCTACTTTTCCCTTCTGGAGGGTGGTCGGCCAGAAGACAAGTTAGAATT
CACCTTCAAGCTGTACGACACGGACAGAAATGGGATCCTGGACAGCTCAGAAGTGACAAAATTATCCTA
CAGATGATGCGAGTGGCTGAATACCTGGATTGGGATGTGTCTGAGCTGAGGCCGATTCTTCAGGAGATGA
TAAAAGAGATTGACTATGATGGCAGTGGCTCTGTCTCTCAAGCTGAGTGGTCCGGGCTGGGCCACCAC
CGTGCCACTGCTAGTGTCTGGTCTGGAGATGACTCTGAAGGACGACGGACAGCACATGTGGAGGCC
AAGAGGTTCCCCAGACCAGTCTACTGCAATCTGTGCGAGTCAAGCATTGGTCTTGCCAAAACAGGGACTGA
GCTGTAACCTCTGTAAGTACACTGTTACGACCAGTGTGCCATGAAAGCCCTGCCTTGTGAAGTCAGCAC
CTATGCCAAGTCTCGAAGGACATTGGTGTCCAATCACATGTGTGGTGGCAGGAGGCTGTGAGTCCGGG
CGCTGCGACCGCTGTGAGAAAAGATCCGGATCTACCACAGTCTGACCGGCTGCATTGTGTATGGTGCC
ACCTAGAGATCCACGATGACTGCCTGCAAGCGTGGGCCATGAGTGTGACTGTGGGCTGCTCCGGGATCA
CATCTGCCTCCATCTTCCATCTATCCCAGTGTCTGGCTCTGGACCGGATCGTAAAAATAGCAAAAACA
AGCCAGAAGACCATGGATGATTTAAATTTGAGCACCTCTGAGGCTCTGCGGATTGACCCTGTTCTAACA
CCCACCCACTTCTCGTCTTGTCAATCTAAGAGTGGCGGAAGCAGGGGCAGAGGGTCTCTGGAAGT
CCAGTATATATTAACCCTCGACAGGTGTTCAACCTCCTAAAGGATGGTCTGAGATAGGGCTCCGATTA
TTCAAGGATGTTCTGATAGCCGGATTTGGTGTGGTGGAGACGGCACAGTAGGCTGGATTCTAGAGA
CCATTGACAAAGCTAACTTGCCAGTTTTGCCTCCTGTTGTGTGTGCCCTGGTACTGGAATGATCT
GGCTCGATGCCTAAGATGGGAGGAGGTTATGAAGGACAGAACTGGCAAAGATCCTCAAGGATTTAGAG
ATGAGTAAAGTGGTACATATGGATCGATGGTCTGTGGAGGTGATACCTCAACAACTGAAGAAAAAGTG
ACCCAGTCCCCTTCAAATCATCAATAACTACTTCTCTATTGGCGTGGATGCCTCTATTGCTCATCGATT
CCACATCATGCGAGAGAAATATCCGGAGAAGTTCAACAGCAGAATGAAGAACAAGCTATGGTACTTCGAA
TTTGCCACATCTGAATCCATCTTCTCAACATGCAAAAAGCTGGAGGAGTCTTTGACAGTTGAGATCTGTG
GAAACCCTGGATCTGAGCAACCTGTCCCTAGAAGGCATCGCAGTGTAAACATCCCTAGCATGCATGG
TGCTCCAACCTCTGGGTGATACCAGGAGACCCATGGGGATATCTATGGGATCAACCAGGCCCTTAGGT
GCTACAGCTAAAGTATCACCGACCCTGATATCCTGAAAACCTGTGTACCAGACCTAAGTGACAAGAGAC
TGGAAGTGGTGGGCTGGAGGGTCAATTGAGATGGGCCAAATCTATACCAAGCTCAAGAATGCTGGACG
TCGGCTGGCCAAGTGTCTGAGATCACCTTCCACACCACAAAACCCCTCCCATGCAAATGACGGAGAA
CCCTGGATGCAGACGCCCTGTACAATCAAGATCACCCACAAGAACCAGATGCCATGCTCATGGGCCAC
CCCCCGCTCCACCAATTTCTTTGGCTTCTTGAGC

ACGCGTACGCGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Plasmid Map:



ACCN: NM_001345

ORF Size: 2205 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.

RefSeq: [NM_001345.3](#)

RefSeq Size: 2756 bp

RefSeq ORF: 2208 bp

Locus ID: 1606

Domains: DAGKa, DAGKc, EFh, DAG_PE-bind

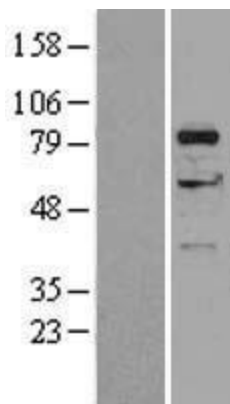
Protein Families: Druggable Genome

Protein Pathways: Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system

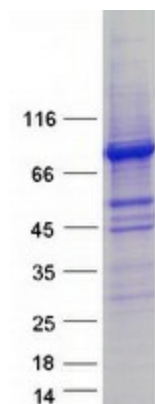
MW: 82.5 kDa

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]

Product images:

Western blot validation of overexpression lysate (Cat# [LY400535]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222395 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DGKA protein (Cat# [TP322395]). The protein was produced from HEK293T cells transfected with DGKA cDNA clone (Cat# RC222395) using MegaTran 2.0 (Cat# [TT210002]).