

Product datasheet for **SC121274**

DGKA (NM_201554) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKA (NM_201554) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGKA
Synonyms:	DAGK; DAGK1; DGK-alpha
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_201554, the custom clone sequence may differ by one or more nucleotides

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ATGCCAAGGAGAGGGGCTAATAAGCCCCAGTGATTTGCCAGCTGCAAAAATACATGGAATACTCCA  
CCAAAAAGGTCAGTGATGTCCTAAAGCTCTTCGAGGATGGCGAGATGGCTAAATATGTCCAAGGAGATGC  
CATTGGGTACGAGGGATTCCAGCAATTCCTGAAAATCTATCTCGAAGTGGATAATGTTCCAGACACCTA  
AGCCTGGCACTGTTTCAATCCTTTGAGACTGGTCACTGCTTAAATGAGACAAATGTGACAAAAGATGTGG  
TGTGTCTCAATGATGTTTCTGCTACTTTCCCTTCTGGAGGGTGGTCGGCCAGAAGACAAGTTAGAATT  
CACCTTCAAGCTGTACGACACGGACAGAAATGGGATCCTGGACAGCTCAGAAGTGGACAAAATTATCCTA  
CAGATGATGCGAGTGGCTGAATACCTGGATTGGGATGTGTCTGAGCTGAGGCCGATTCTTCAGGAGATGA  
TGAAAGAGATTGACTATGATGGCAGTGGCTCTGTCTCAAGCTGAGTGGGTCCGGGCTGGGGCCACCAC  
CGTGCCACTGCTAGTGTCTGGTCTGGAGATGACTCTGAAGGACGACGGACAGCACATGTGGAGGCC  
AAGAGGTTCCCCAGACCAGTCTACTGCAATCTGTGCGAGTCAAGCATTGGTCTTGGCAAACAGGGACTGA  
GCTGTAACCTCTGTAAGTACACTGTTACAGACCAGTGTGCCATGAAAGCCCTGCCTTGTGAAGTCAGCAC  
CTATGCCAAGTCTCGGAAGGACATTGGTGTCCAATCACATGTGTGGGTGCCAGGAGGCTGTGAGTCCGGG  
CGCTGCGACCGCTGTGAGAAAAGATCCGGATCTACCACAGTCTGACCGGCTGCATTGTGTATGGTGCC  
ACCTAGAGATCCACGATGACTGCCTGCAAGCGGTGGGCCATGAGTGTGACTGTGGGCTGCTCCGGGATCA  
CATCTGCCTCCATCTTCCATCTATCCCAGTGTCTGGCCTCTGGACCGGATCGTAAAAATAGCAAAAACA  
AGCCAGAAGACCATGGATGATTTAAATTTGAGCACCTCTGAGGCTCTGCGGATTGACCCTGTTCTAACA  
CCCACCCACTTCTCGTCTTTGTCAATCCTAAGAGTGGCGGGAAGCAGGGGCAAAGGGTGTCTGGAAGTT  
CCAGTATATATTAACCCCTCGACAGGTGTTCAACCTCCTAAAGGATGGTCTGAGATAGGCTCCGATTA  
TTCAAGGATGTTCTGATAGCCGGATTTGGTGTGTGGTGGAGACGGCACAGTAGGCTGGATTCTAGAGA  
CCATTGACAAAGCTAACTTGCCAGTTTTGCCTCCTGTTGCTGTGTTGCCCTGGTACTGAAAATGATCT  
GGCTCGATGCCTAAGATGGGAGGAGGTTATGAAGGACAGAATCTGGCAAAGATCCTCAAGATTTAGAG  
ATGAGTAAAGTGGTACATATGGATCGATGGTCTGTGGAGGTGATACCTCAACAACTGAAGAAAAAGTG  
ACCCAGTCCCCTTTCAAATCATCAATAACTACTTCTCTATTGGCGTGGATGCCTCTATTGCTCATCGATT  
CCACATCATGCGAGAGAAATATCCGGAGAAGTTCAACAGCAGAATGAAGAACAAGCTATGGTACTTCGAA  
TTTGCCACATCTGAATCCATCTTCTCAACATGCAAAAAGCTGGAGGAGTCTTTGACAGTTGAGATCTGTG  
GAAAACCGCTGGATCTGAGCAACCTGTCCCTAGAAGGCATCGCAGTGTAAACATCCCTAGCATGCATGG  
TGCTCCAACCTCTGGGGTGATACCAGGAGACCCCATGGGGATATCTATGGGATCAACCAGGCCTTAGGT  
GCTACAGCTAAAGTCATACCGACCCTGATATCCTGAAAACCTGTGTACCAGACCTAAGTACAAGAGAC  
TGAAGTGGTGGGCTGGAGGTTGCAATTGAGATGGGCCAAATCTATACCAAGCTCAAGAATGCTGGACG  
TCGGCTGGCAAGTGTCTGAGATCACCTCCACACCACAAAAACCCCTCCCATGCAAAATGACGGAGAA  
CCCTGGATGCAGACGCCCTGTACAATCAAGATCAACCACAAGAACCAGATGCCCATGCTCATGGGCCAC  
CCCCCGCTCCACCAATTTCTTTGGCTTCTTGAGCTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_201554 unedited CCCCTTTCCCGCCGACGNCGATTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA AGCAGTTTTTCATTTAGGTGACACTAGAGGGGCGGGCGTCTTGTTCTTTTTGCAGCGGCCG CGAATTCGGCACGAGGCCAGCTCCAGCGCCGGCGCTTCAGCTGCGACCGCGAGCCCTCTC AAGCAAGGCCTACCCTCTGAAGAGGTCCAAGCAACGGAAGTACTACTACGAAGCTGCCTT TCTGGGGTGTGAGAAAAATATACTGATGGCCAAGGAGAGGGGCCTAATAAGCCCCAG TGATTTTGCCAGCTGCAAAAATACATGGAATACTCCACCAAAAAGTCACTGATGTCTT AAAGCTTTCGAGGATGGCGAGATGGCTAAATATGTCCAAGGAGATGCCATTGGGTACGA GGGATTCCAGCAATTCCTGAAAATCTATCTCGAAGTGGATAATGTTCCAGACACCTAAG CCTGGCACTGTTCAATCCTTTGAGACTGGTCACTGCTTAAATGAGACAAATGTGACAAA AGATGTGGTGTGTCTCAATGATGTTTCTGCTACTTTTCCCTTCTGGAGGGTGGTCGGCC AGAAGACAAGTTAGAATTCACCTTCAAGCTGTACGACACGGACAGAAATGGGATCCTGGA CAGCTCAGAAGTGACAAAATTATCCTACAGATGATGCGAGTGGTGAATACCTGGATTG GGATGTGTCTGAGCTGAGCCGATTCTTCAGGAGATGATGAAAGAGATTGACTATGATGG CAGTGGCTCTGTCTCAAGCTGAGTGGGTCCGGGCTGGGGCCACCACCTGCCACTGCT AGTGCTGTGGGTCTGGAGATGACTCTGAAGGACGACGGACAGCACATGTGGTAGCCCA GAAG
Restriction Sites:	NotI-NotI
ACCN:	NM_201554
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
RefSeq:	NM_201554.1 , NP_963848.1
RefSeq Size:	2669 bp
RefSeq ORF:	2208 bp
Locus ID:	1606
UniProt ID:	P23743
Cytogenetics:	12q13.2
Protein Families:	Druggable Genome
Protein Pathways:	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system

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]

Transcript Variant: This variant (4), as well as variants 1-3, 5, and 6, encodes isoform a.