

Product datasheet for **SC119317**

DGKA (NM_001345) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKA (NM_001345) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGKA
Synonyms:	DAGK; DAGK1; DGK-alpha
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119317 sequence for NM_001345 edited (data generated by NextGen Sequencing)

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ATGGCCAAGGAGAGGGGCCTAATAAGCCCCAGTGATTTTGCCCAGCTGCAAAAATACATG
GAATACTCCACCAAAAAGGTCAGTGATGTCCTAAAGCTCTTCGAGGATGGCGAGATGGCT
AAATATGTCCAAGGAGATGCCATTGGGTACGAGGGATTCCAGCAATTCCTGAAAACTAT
CTCGAAGTGGATAATGTTCCAGACACCTAAGCCTGGCACTGTTTCAATCCTTTGAGACT
GGTCACTGCTTAAATGAGACAAAATGTGACAAAAGATGTGGTGTGTCTCAATGATGTTCC
TGCTACTTTTCCCTTCTGGAGGGTGGTCGGCCAGAAGACAAGTTAGAATTCACCTCAAG
CTGTACGACACGGACAGAAATGGGATCCTGGACAGCTCAGAAAGTGACAAAATTATCCTA
CAGATGATGCGAGTGGCTGAATACCTGGATTGGGATGTGTCTGAGCTGAGGCCGATTCTT
CAGGAGATGATGAAAGAGATTGACTATGATGGCAGTGGCTCTGTCTCAAGCTGAGTGG
GTCCGGGCTGGGGCCACCACCTGCCACTGCTAGTGTCTGGTCTGGAGATGACTCTG
AAGGACGACGGACAGCACATGTGGAGGCCAAGAGTTCCCCAGACCAGTCTACTGCAAT
CTGTGCGAGTCAAGCATTGGTCTTGGCAAACAGGGACTGAGCTGTAACCTCTGTAAGTAC
ACTGTTACAGACCAGTGTCCATGAAAGCCCTGCCTTGTGAAGTCAGCACCTATGCCAAG
TCTCGGAAGGACATTGGTGTCCAATCACATGTGTGGTGGCAGGAGGCTGTGAGTCCGGG
CGCTGCGACCCGCTGTGAGAAAAGATCCGGATCTACCACAGTCTGACCCGGCTGCATTGT
GTATGGTGCCACCTAGAGATCCACGATGACTGCCTGCAAGCGGTGGGCCATGAGTGTGAC
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TCTGGACCCGATCGTAAAAATAGCAAAACAAGCCAGAAGACCATGGATGATTTAAATTTG
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TTTGCCACATCTGAATCCATCTTCTCAACATGCAAAAAGCTGGAGGAGTCTTTGACAGTT
GAGATCTGTGGGAAACCGCTGGATCTGAGCAACCTGTCCCTAGAAGGCATCGCAGTGCTA
AACATCCCTAGCATGCATGGTGGCTCCAACCTCTGGGGTGATACCAGGAGACCCCATGGG
GATATCTATGGGATCAACCAGGCCTTAGGTGCTACAGCTAAAGTCATCACCGACCCTGAT
ATCCTGAAAACCTGTGTACCAGACCTAAGTGACAAGAGACTGGAAGTGGTTGGGCTGGAG
GGTGCAATTGAGATGGGCCAAATCTATACCAAGCTCAAGAATGCTGGACGTCCGCTGGCC
AAGTGTCTGAGATCACCTTCCACACCACAAAACCTTCCCATGCAAAATGACGGAGAA
CCCTGGATGCAGACGCCCTGTACAATCAAGATCACCCACAAGAACCAGATGCCCCATGCTC
ATGGGCCACCCCGCTCCACCAATTTCTTTGGCTTCTTGAGCTAA
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Clone variation with respect to NM_001345.4

961 t=>n;962 g=>n;963 t=>n;964 g=>n;965 g=>n;966 g=>n;1170 g=>n;1171 c=>n;1172 a=>n;1173 a=>n

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001345 unedited GTAATTTGTAATACGACTCACTATAGGGCGGCCGCGNAATTCGCACGAGGAGTGAGTCCC TAGGCCTCCATCTCTCTCCCTTGCTGTACCACCTTCACCACCATCCATGCGACCCCAAGA GCCTTAATGACTCTAGAAGACTCCAGGCAGGGGAAGCTGAAAGGACCTTTCACCTCCCT ACTTTTGGCCAGGGCCTTCTGTGCCACCTGCCAAGACCAGCAGGCCTACCCTCTGAAGAG GTCCAAGCAACGGAAGTACTACTACGAAGCTGCCTTTCTGGCCATCCTTGAGAAAAATAG ACAGATGGCCAAGGAGAGGGGCTAATAAGCCCCAGTGATTTTGGCCAGCTGCAAAAATA CATGGAATACTCCACCAAAAAGGTCAGTGATGTCTAAAGCTCTTCGAGGATGGCGAGAT GGCTAAATATGTCCAAGGAGATGCCATTGGGTACGAGGGATTCCAGCAATTCCTGAAAAAT CTATCTCGAAGTGGATAATGTTCCAGACACCTAAGCCTGGCACTGTTTCAATCCTTTGA GACTGGTCACTGCTTAAATGAGACAAATGTGACAAAAGATGGTGGTGTGTCTCAATGATG TTTCTGCTACTTTTCCCTTCTGGAGGGTGGTCGGCCAGAAGACAAGTTAGAATTCACCT TCAAGCTGTACGACACGGACAGAAATGGGATCCTGGACAGCTCAGAAGTGGACAAAATTA TCCTACAGATGATGCGAGTGGCTGAATACCTGGATTGGGATGTGTCTGAGCTGAGGCCGA TTCTTCAGGAGATGATGAAGAGATGCTATGATGGCAGGGGCTCTGTTCTCAACTGGAGGG GTCCGGGCTGGGGCCACACCGTGCCCTGCTATGCTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001345 unedited GGCCGCATTCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTGGCAGATCCCAAGGGGAAACA CAAGTCATTTTATTCAGATGAGGCACTTCAATGTATGTGTTTTGGGGTGTGTATGTG TGTGCGCATGGGAAACAGTGAGGTGGTGCAGGATAATAAATACTGTGAGGGTGAAGGAAC ACTCCCCAAGCTGGCAGGAGTATGTGGCAGCAATGTACAGAGCCTCGGGAGTAGAGTCC AGGGACAGGGAGGTGGGTCAAGGCTGGCTTGGAGGCCAAGGGTGTCCCCCTTAGCTCAA GAAGCCAAAAAATTGGTGGAGCGGGGGTGGGCCCATGAGCATGGGCATCTGGTTCTT GTGGGTGATCTTGATTGTACAGGGCGTCTGCATCCAGGGTCTCCGTCAATTTGCATGGG AAGGGTTTTGTGGTGTGGAAGGTGATCTCAGAGCACTTGGCCAGCCGACGTCCAGCATT CTTGAGCTTGGTATAGATTTGGCCATCTCAATTCACCTCCAGCCCAACCACTCCAG TCTTTTGTACTTACGTCTGGTACACAGTTTTTCCAGGATATCACGGTCCGGTGTGACTTT AACTGAAGCACCTAACGGCTGGTTGATCCCATATATATCCCCATGGCGCGCTCTGGTA TCACCTCTAAACGCCGGAGCCCCATGCGATTGTTAGGGATGGTTACGACCTGCGAAGC CCTCTCCAGGGACAGGGTGCCCAAAACCCCGGTTTTCCCAACACATCTCCCTCCCCAAC ACTTCCTTCGTTCTTTTATATGTGCGAAACGAACCCTGTTACCATCCCCAAACANGCGAA GACATANATAGTGTCTTTATTTCTTCTCTATCTTTGTGGAAATCGGTGTGGAATTG GGGGAGAGAGGGGCGCCCCGGCCGCGCCCTCCCATGACATTTCACTCCACCTTCTCCGC CCCCCCATTCGCTCCTCCCTTCCCTCCGCCCTCCCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001345
Insert Size:	2800 bp
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_001345.4 , NP_001336.2
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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3), as well as variants 1, 2, and 4-6, encodes isoform a.</p>