

Product datasheet for **SC124112**

DGKG (NM_001346) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKG (NM_001346) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGKG
Synonyms:	DAGK3; DGK-GAMMA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001346, the custom clone sequence may differ by one or more nucleotides

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ATGGGTGAAGAACGGTGGGTCTCCCTCACTCCAGAAGAATTTGACCAACTCCAGAAATATTCAGAATATT
CCTCCAAGAAGATAAAAAGATGCCTTGACTGAATTTAATGAGGGTGGGAGCCTCAAACAATATGACCCACA
TGAGCCGATTAGCTATGATGCTTCAAGCTGTTTCATGAGGGCGTACCTGGAGGTGGACCTCCCCAGCCA
CTGAGCACTCACCTCTTCTGGCCTTCAGCCAGAAGCCAGACAGGAGACCTCTGACCACCCGACGGAGG
GAGCCAGCAACAGTGAGGCCAACAGCGCAGATACTAATATACAGAATGCAGATAATGCCACCAAAGCAGA
CGAGGCCGTGTGCCCTGATACTGAATCAAATATGGCTGAGAAGCAAGCACCAGCTGAAGACCAAGTGGCT
GCGACCCCTGGAAACCCCGTCCCTCGGTCTTCAAGCTCGGAATCCCCAGTGGTATACCTGAAGGATG
TTGTGTGCTACCTGTCCCTGCTGGAGACGGGAGGCCCTCAGGATAAGCTGGAGTTCATGTTTCGCCTCTA
TGATTCAGATGAGAACGGTCTCCTGGACCAAGCGGAGATGGATTGCATTGTCAACCAAATGCTGCATATT
GCCAGTACCTGGAGTGGATCCCACAGAGCTGAGGCCTATATTGAAGGAGATGCTGCAAGGGATGGACT
ACGACCCGGACGGCTTTGTGCTCTACAGGAATGGGTCCATGGAGGGATGACCACCATCCCATTGCTGGT
CCTCCTGGGGATGGATGACTCTGGCTCCAAGGGGGATGGCGGACGACCTGGACCATGAAGCACTTCAAG
AAACCAACCTACTGCAACTTCTGCCATATCATGCTCATGGGCGTCCGCAAGCAAGGCCTGTGCTGCACTT
ACTGTAATACTACTGTCCACGAACGCTGTGTGTCCAGAAACATTCCTGGTTGTGTCAAAACGTACTCAA
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TGCCACAAAAGTATCAAGTGCTACCAGAGTGTCAACCGCGGCGACTGCGTGTGGTGCCGGATGACGTTTC
ACCGCAAATGTGAATTATCAACGTTGTGTGACGGTGGGGAACCTCAGAGACCACATCTTACTGCCACCTC
CATATGCCCATCACCCGGACAGGCCAGGTGAGAAGTCTGATGGCTGCGTGTCCGCCAAGGGCGAACTT
GTCATGCAGTATAAGATCATCCCACCCGGGTACCCACCCCTGCTGGTCTTGGTGAACCCCAAGAGTG
GAGGGAGACAAGGAGAAAGAATTCCTCGAAATTCCTACTATCTGCTCAACCCCAAACAAGTTTTCAACT
GGACAATGGGGGCTACTCCAGGGTTGAACTTTTTCCGTGATACTCCAGACTTCCGTGTTTTGGCCTGT
GGTGGAGATGGGACAGTTGGCTGGATTTTGATTGCATTGATAAGGCCAACTTTGCAAAGCATCCACCAG
TGGCTGCTCCTGCCTTTGGAACAGGAAATGACCTTGCCCGTTGTCTCCGCTGGGGAGGAGGTTATGAAGG
GGGCAGCTTGACAAAAATCCTGAAAGACATTGAGCAGAGCCCTTGGTGTGCTGGACCGCTGGCATCTG
GAAGTCATCCCCAGAGAGGAAGTGGAAAACGGGGACCAGGTCCCATACAGCATCATGAACAATATTTCT
CCATTGGTGTGGACGCTTCCATTGCACACAGATTCATGTGATGAGAGAGAAACATCCTGAAAAATTC
CAGCAGGATGAAGAACAAGCTGTGGTACTTTGAATTTGGCACCTCGGAGACTTTTGCAGCGACCTGCAAG
AAACTCCACGACCACATTGAGTTGGAGTGTGATGGGGTTGGGGTGGACCTGAGCAACATCTTCTGGAAG
GCATTGCCATTCTCAACATTCACAGCATGTACGGAGGCACCAATCTCTGGGGAGAAAAACAAGAAGACCG
GGCTGTGATCCGGGAAAGCAGGAAGGGTGTCACTGACCCCAAAGAACTGAAATCTGCGTTCAAGACCTC
AGTGACCAGCTCCTTGAAGTGGTGGGCTAGAAGGAGCCATGGAGATGGGGCAGATCTACACCGGCTGA
AGAGTGCAGGCAGGAGGCTGGCCAGTGCCTCTGTCAACATCAGGACAAACAAGCTGTGCAATGCA
AGTGGATGGAGAACCCTGGATGCAGCCATGTTGCACGATTAATAAATACTCACAAGAACCAAGCGCCATG
ATGATGGGGCCTCCCAGAAGAGCAGCTTCTTCTGTTGAGAAGGAGCCGTTCAAAAGACTAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001346 unedited</p> <pre> NTGTCAAATTTGTAACGACTCACTATAGGCGCCGCGAATTCGCACGAGGCGGGCCAC GGAGATAGACAGCTTTGGAGCTGCTGAACCTCCGAGCACAGGGTGAAGACCCCGGCGCTAC CAACCACAGCCTGGCAGCCTGGTCTCCGCGGCACCCACTGGGGCTGCATCCCCCTCCCC GAGAGGGCTGCGCAGGCGGGAAGACGCCAGAGGCCAGCTTCGGTCCCCCTTCTGTCTCT CGGTTCTCTTTCTCCCAAGTAAGGGAATAAACCGCGAAGAAGGAGCGCCCCGGGCCAC CGCGCAACCAAGTGTTCCTGGTGGTGAAGGAGCCAGGACTTCTGAATTTACCTTGAATAC AGACAGGAGGATGTTGCCTAAGGAATAGCAGAGATCTGTCTCATCTTCTGAGAGGTGCC TGCTGCTGCTGTATACACTTGAGTGCTCCAGAAAGTCTCCTGAAAGGCTTACATCGCAA CCTGCAATGAGCCAGGCCCTGGGCTGGGCTCCACTTCAGCCTAGTGAACAAAACCTCCAT CACTGCCCTTTAGCCACTCACATAAAGTTTAAAAATGGGTGAAGAACGGTGGGTCTCCCT CACTCCAGAAGAATTTGACCAACTCCAGAAATATTCAGAATATTCCTCCAAGAAGATAAA AGATGCCTTGACTGAATTTAATGAGGGTGGGAGCCTCANACAATATGACCCACATGAGCC GATTAGCTATGATGCTTCAAGCTGTTTCATGAGGGCGTACCTGGAGGTGGACCTTCCCCA GCCACTGAGCACTCACCTTCTGGCCTTCAGCCAGAAGCCCAGACACGAGACCTCTGA CCACCCGACGGAGGNAGCCAGCACAGTGAGGCCAACAGCGCAGATACTAATATACAGAA TGCAGATNATGCCACCAA </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001346 unedited</p> <pre> AGGGGNNAGGTNNNNNTTGCCTGCATGCAACTCCAGGCCAGGAAAGGCACTGGGGAGGG GTCACAGGGATGCCACCCGGGATCTGTTCAAGAAACAGCTATGACCGCGCCGCAATCTA GAGTCGAGTTTACACAATA TTATGACACCAATTTGAAAAATAAATCCAGTTTCTCCGCTCTCCCTCCCAGGTGTTAC AGAACAAGAAAAATAATCCACATCTAAGGTGTGCTATGCAGGCAGCTCTGGGGCTCT TGGAGCCGCTCTAAGCAAAATGTAGACCCCAGGAGAAGGTTCTCGAAAATAACAAGT GCCACCAGCGCGCAGAAACCAAGAATGGAAATACAGCTTTCACGGCCTTTCTGCCT CTTCAGCAGGTTACGGAGAAGTTGCTCACTCAAAGGACGACCAAGAAACCAACGTGCGCC TGCTGAGCCCTGCCAAGGATTATGCTCTGAGAGCCAAAAGCCGTTTTGTCTGTACAGA GGGAACTTGTGCAAATCTCTGGAACAGAGCTTCTCCCTTGGCCACATTTGATCTCA CCATAGGCAGGAAACCTTGAGCCTTGTCTCGGGAGCGTCCATGAAGAACTTTGAGGGG CTGTAGAAAGAAGCGGGATTTCCCTCATCTAAAAAATTCTGCTAAAGCTGTGGAAATTTG TGAGTCTCTANNCANCCACCCTTTGCCCTAGTCATTCAAGTGTGTGCACTGCTTTTAA GTTACCT </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001346
Insert Size:	3900 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_001346.1 , NP_001337.1
RefSeq Size:	3758 bp
RefSeq ORF:	2376 bp
Locus ID:	1608
UniProt ID:	P49619
Cytogenetics:	3q27.2-q27.3
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>This gene encodes an enzyme that is a member of the type I subfamily of diacylglycerol kinases, which are involved in lipid metabolism. These enzymes generate phosphatidic acid by catalyzing the phosphorylation of diacylglycerol, a fundamental lipid second messenger that activates numerous proteins, including protein kinase C isoforms, Ras guanyl nucleotide-releasing proteins and some transient receptor potential channels. Diacylglycerol kinase gamma has been implicated in cell cycle regulation and in the negative regulation of macrophage differentiation in leukemia cells. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>