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Product datasheet for SC315969

DGKG (NM_001080745) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKG (NM_001080745) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGKG
Synonyms:	DAGK3; DGK-GAMMA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>SC315969 representing NM_001080745.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGTGAAGAACGGTGGGTCTCCCTCACTCCAGAAGAATTTGACCAACTCCAGAAATATTCAGAATAT
TCCTCCAAGAAGATAAAAGATGCCTTGACTGAATTTAATGAGGGTGGGAGCCTCAAACAATATGACCCA
CATGAGCCGATTAGCTATGATGTCTTCAAGCTGTTCATGAGGGCGTACCTGGAGGTGGACCTTCCCCAG
CCACTGAGCACTCACCTCTTCCTGGCCTTCAGCCAGAAGCCCAGACACGAGACCTCTGACCACCCGACG
GAGGGAGCCAGCAACAGTGAGGCCAACAGCGCAGATACTAATATACAGAATGCAGATAATGCCACCAAA
GCAGACGAGGCCTGTGCCCCTGATACTGAATCAAATATGGCTGAGAAGCAAGCACCAGCTGAAGACCAA
GTGGCTGCGACCCCCCTGGAACCCCCCGTCCCTCGGTCTTCAAGCTCGGAATCCCCAGTGGTATACCTG
AAGGATGTTGTGTGCTACCTGTCCCTGCTGGAGACGGGGAGGCCTCAGGATAAGCTGGAGTTCATGTTT
CGCCTCTATGATTCAGATGAGAACGGTCTCCTGGACCAAGCGGAGATGGATTGCATTGTCAACCAAATG
CTGCATATTGCCCAGTACCTGGAGTGGGATCCCACAGAGCTGAGGCCTATATTGAAGGAGATGCTGCAA
GGGATGGACTACGACCGGGACGGCTTTGTGTCTCTACAGGAATGGGTCCATGGAGGGATGACCACCATC
CCATTGCTGGTCCTCCTGGGGATGGATGACTCTGGCTCCAAGGGGGATGGGCGGCACGCCTGGACCATG
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GGTGGGGAACTCAGAGACCACATCTTACTGCCCACCTCCATATGCCCCATCACCCGGGACAGGCCAGGT
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AACTTTTTCCGTGATACTCCAGACTTCCGTGTTTTGGCCTGTGGTGGAGATGGGACAGTTGGCTGGATT
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AATGACCTTGCCCGTTGTCTCCGCTGGGGAGGAGGTTATGAAGGGGGCAGCTTGACAAAAATCCTGAAA
GACATTGAGCAGAGCCCCTTGGTGATGCTGGACCGCTGGCATCTGGAAGTCATCCCCAGAGAGGAAGTG
GAAAACGGGGACCAGGTCCCATACAGCATCATGAACAACTATTTCTCCATTGGTGTGGACGCTTCCATT
GCACACAGATTCCATGTGATGAGAGAGAAACATCCTGAAAAATTCAACAGCAGGATGAAGAACAAGCTG
TGGTACTTTGAATTTGGCACCTCGGAGACTTTTGCAGCGACCTGCAAGAAACTCCACGACCACATTGAG
TTGGAGTGTGATGGGGTTGGGGTGGACCTGAGCAACATCTTCCTGGAAGGCATTGCCATTCTCAACATT
CCCAGCATGTACGGAGGCACCAATCTCTGGGGAGAAAACAAGAAGAACCGGGCTGTGATCCGGGAAAGC
AGGAAGGGTGTCACTGACCCCAAAGAACTGAAATTCTGCGTTCAAGACCTCAGTGACCAGCTCCTTGAA
GTGGTGGGGCTAGAAGGAGCCATGGAGATGGGGCAGATCTACACCGGCCTGAAGAGTGCAGGCAGGAGG
CTGGCCCAGTGCGCCTCTGTCACCATCAGGACAAACAAGCTGCTGCCAATGCAAGTGGATGGAGAACCC
TGGATGCAGCCATGTTGCACGATTAAAATTACTCACAAGAACCAAGCGCCCATGATGATGGGGCCTCCC
CAGAAGAGCAGCTTCTTCTCGTTGAGAAGGAAGAGCCGTTCAAAAGACTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

SgfI-MluI

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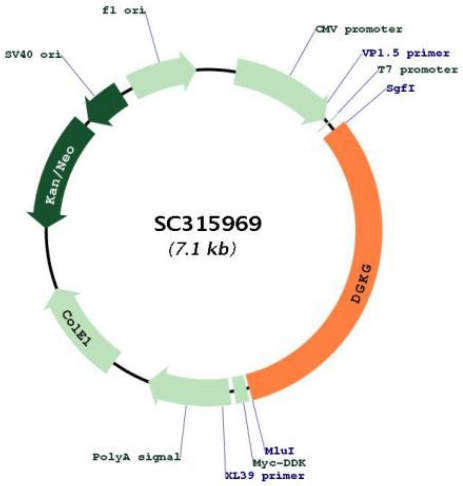
Plasmid Map:



ACCN:	NM_001080745
Insert Size:	2259 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001080745.1
RefSeq Size:	5701 bp
RefSeq ORF:	2259 bp
Locus ID:	1608
UniProt ID:	P49619

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Cytogenetics:	3q27.2-q27.3
Protein Families:	Druggable Genome
Protein Pathways:	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
MW:	84.6 kDa
Gene Summary:	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] Transcript Variant: This variant (3) lacks an alternate in-frame exon, compared to variant 1, resulting in a protein (isoform 3) that is shorter than isoform 1.

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