

Product datasheet for **SC315129**

DGKI (NM_004717) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKI (NM_004717) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGKI
Synonyms:	DGK-IOTA
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004717, the custom clone sequence may differ by one or more nucleotides

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ATGGATGCTGCGGGAAGGGGCTGCCATTTGCTGCCCTGCCAGCGGCGCGGACCTGCC
CGCGCTCCTGCAGCCGCCCGCCGCCAGCCCGCCGGCCCTGCAGCGGCGCC
GCCTGCGCTCCCTCCGCGGCCGCGGAGCGGGCGCCATGAACCCAGCTCCTCGGCGGGA
GAGGAGAAAGGGGCGACGGGCGGCAGCAGCAGCAGCGGAAGCGGCGCGGGAGCTGCTGC
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GCTGCCCTGGACGAGCCCGCGGCCGCCAGGAGAAGGACGAAGCGCTGGAGGAG
AAGCTGAGGAACCTTAACCTTCCGGAAGCAGGTCTCGTACAGGAAAGCAATCTCCCGGCA
GGCCTCCAGCATCTGGCTCCTGCACATCCCTCAGCCTTCTGTGGCAAATGGTCCAGCC
AAGGAGCCAGAGCGACTTTGGACTGGAGTGAGAATGCCGTGAATGGAGAACACCTGTGG
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TTTGCAAATCAGCTCTCAGGAGGAAGTGTGCAGTCTGTAAAAATCGTCGTCACACCGCC
TGCATTGAGCAGCTAGAAAAGATTAATTTTCAGATGTAACCAACATTTTCGAGAAGGAGGC
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CCTGTTTCTAAGATCCTGTGTCAAGTGAAGATGGGACAGTTGTACAGCTAGATCGCTGG
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AAAATGTTCTATGCAGGGGCGAGCTTTTCTGACTTCTACAGAGAAGTTCTAGAGATCTA

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TCCAAACATGTTAAAGTTGTTTGTGATGGAACAGATCTACCCCAAAGATTCAGGAACTG
 AAGTTCAGTGTATAGTATTTTTAAATATACCCAGATATTGTGCTGGCACAATGCCTGG
 GGAAACCCAGGTGATCACCATGATTTTGAACCTCAGCGTCATGATGATGGTTATATTGAA
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 CTACACCAGTGTGAGAAGTCATGCTTCTAACTTACAAATCCATCCCATGCAAGTGGAT
 GGGGAGCCCTGTAGTTGGCCCCAGCTATGATTCGGATCTCCCTGAGGAATCAGGCCAAC
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 GCACAGAGGCTCTCTCTCGGTGGTGCCTCCTAGATGACAGATCTCAGGAACATTTGCAC
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 TCAGACTGGTGAATCCTGCCCTGCGGAAACGCATGCTGAGTGACAGTGGGCTGGGGATG
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 CACGGACCTTCCGAGTTATTGGATATGGCAGACAGTGAACCGGTGAGACTGCACTGCAC
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 CTGAGAAAAGACGGACTCCAAGGGTAAGACACCTCAAGAAAAGACACAGCAGGCTGGGGAC
 CCAGACTTGGCTGCTTACCTAGAAAAGCCGTCAGAACTATAAGGTCAATTGGCCATGAGGAC
 CTGGAACCTGCTGTT

- Restriction Sites:** Please inquire
- ACCN:** NM_004717
- 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_004717.2](#), [NP_004708.1](#)
- RefSeq Size:** 4780 bp

RefSeq ORF:	3198 bp
Locus ID:	9162
UniProt ID:	O75912
Cytogenetics:	7q33
Domains:	DAGKa, DAGKc, ANK, DAG_PE-bind
Protein Families:	Druggable Genome
Protein Pathways:	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
Gene Summary:	This gene is a member of the type IV diacylglycerol kinase subfamily. Diacylglycerol kinases regulate the intracellular concentration of diacylglycerol through its phosphorylation, producing phosphatidic acid. The specific role of the enzyme encoded by this gene is undetermined, however, it may play a crucial role in the production of phosphatidic acid in the retina or in recessive forms of retinal degeneration. [provided by RefSeq, Jul 2008]