

Product datasheet for **SC303359**

DGKD (NM_003648) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKD (NM_003648) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGKD
Synonyms:	DGK-delta; dgkd-2; DGKdelta
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003648, the custom clone sequence may differ by one or more nucleotides

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ATGAATATGTTTCTGTACTTTTCAGACCATCATCAAAGAGGGGATGCTGACCAAACAGAAC
AATTCATTCCAGCGATCAAAAAGGAGATACTTTAAGCTTCGAGGGCGAACGCTTTACTAT
GCCAAAACGGCAAAGTCAATCATATTTGATGAGGTGGATCTGACAGATGCCAGCGTAGCT
GAATCCAGTACCAAAAACGTCAACAACAGTTTTACGGTCATAACTCCATGCAGGAAGCTC
ATCTTGTGTGCTGATAACAGAAAAGAAATGGAAGATTGGATTGCAGCATTAAAGACTGTG
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AATTGGTACGCCCTGTTCCACGCGAGGCCGACCTACTGCAATGTGTGCCGTGAGGCTCTG
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TGTGCTGTGCGTGAACCAATAACTGCAAGTGGACCACACTGGCCTCGATCGGGAAGGAC
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GTGAGCGCCAAGTGCAGTGTGTGCGACAAGACCTGTGGCAGTGTGCTGCGCCTGCAGGAC
TGGCGTGCCTCTGGTGAAGGCCATGGTTCACACATCGTGTAAAGAATCCTTGTGACC
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GACTCCGATGGGTTCTGGAAGGCCAGCTGTCTCCTTCTTGCACAAGCCCACTGTTGGTC
TTCGTCGAATTAAGGAGTGGGGACAACCAGGGTGTGAAGTTCCTCAGAAGATTCAAACAG
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TTATTCAGAAGTTTGACACATTCCGGATTCTGGTTTGTGGCGGGGATGGAAGTGTGGC
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GACACCCAGTCCCCAGATCTTGAGAAGTTGGAGAGAGCCAGCACCAAGATGCTGGAC
AGGTGGAGCGTCATGGCATAAGGAGCAAGCTCCCCGGCAGGCCTCCTCCTACCGTC
ACCGAAGACTTCAGCGAGGATCCGAGGTACAGCAGATTCTTCTATGAAGACTCGGTT
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AAGCTGGATTCCCTTCTCAAGACCTTGGACGATGAGTCCCAGGCCTCGTCTCTGTGCC
AACCCGCCCCCAACATTGCCGAGGAGGCTGAAGATGGAGATGGGTGGGGCAGCATCTGC
GGTTCACCGGAGACCGCTTGGTGGCATCAGCTTGCCCGCCCGCCGAGATATTCGG
CCTCGAGAACAGCTCATGCTGAGAGCCAACAGCCTGAAGAAAGCAATTCGTCAGATCATA

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GAACACACAGAAAAAGCTGTCGATGAGCAGAATGCCAGACCCAGGAGCAGGAGGGCTTC
 GTCCTGGGCTCTCTGAGTCAGAGGAGAAGATGGACCACAGAGTGTGCCACCACTGTCC
 CACAGCGAGAGCTTCGGGGTCCCAAGGGGAGGAGCCAGCGCAAAGTGTGAAATCTCCG
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 CAGCCGGGAAGCCGGGACGGCCTGCCTGCGCTCAACACCAAGATCCTGTACCCAAATGTC
 CGGGTGGAAATGCTGGTTCCTTACCCGGTGGCTCAGTCATCAGTCGCCTGTTAATTAAT
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 CCAGGGTACATTCGGATTGTCCACAAGAACCAGGACAGACACTGACCAGAGACAGGGCA
 TTTGAGAGCACCCCTGAAGTCTGGGAAGACAAGCAGAAGTGCAGCTGCCCGCCCTCCA
 TCCTGTTCCCTGCACCCGGAGATGCTGTCCGAGGAGGAGGCCACCCAGATGGACCAAGTTT
 GGGCAGGCAGCAGGGGTCTCATTACAGTATCCGAGAAATAGCTCAGTCTCACCAGGAC
 ATGGAGCAGGAACTGGCCACGCCGTCAATGCCAGCTCCAAGTCCATGGACCGTGTGTAT
 GGCAAGCCAGAACACAGAGGGGCTCAACTGCAGCTTCGTCCTGGAAATGGTGAATAAC
 TTCAGACTCTGCGCAGTGAGACGGAGCTGCTGCTGTCTGGGAAGATGGCCCTGCAGCTG
 GATCCGCTCAGAAGGAGCAGCTGGGGAGTGTCTTGGCAGATGGACCGACAGCTCAGG
 AGGCTGGCAGACACCCCGTGGCTCTGCCAGTCCGACAGAGCCCGGCGACGAAGAGAGTGTG
 ATGCTGGATCTTGCCAAGCGCAGTCGACGTGGTAAATTCGCCTCGTGACCAAGTTTAAA
 AAGGAGAAAAACAACAAGAACAAAGAAGCTCACAGTAGCCTGGGAGCCCCGGTTACCTC
 TGGGGGACAGAGGAGTTGCTGCCTGGCTGGAGCACCTCAGTCTCTGTGAGTATAAGGAC
 ATCTTACACGGCAGCAGATCCGGGGCTCTGAGCTCTGCACCTGGAGCGGAGGGACCTC
 AAGGACCTGGGCGTGACCAAGGTGGGCCACATGAAGAGGATCCTGTGTGGCATCAAGGAG
 CTGAGCCGACGCCCCCGCCGTCGAGGCCTAG

- Restriction Sites:** Please inquire
- ACCN:** NM_003648
- 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_003648.2](#), [NP_003639.2](#)

RefSeq Size: 6229 bp

RefSeq ORF: 3513 bp

Locus ID: 8527

UniProt ID: [Q16760](#)

Cytogenetics: 2q37.1

Protein Families: Druggable Genome

Protein Pathways: Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system

Gene Summary: This gene encodes a cytoplasmic enzyme that phosphorylates diacylglycerol to produce phosphatidic acid. Diacylglycerol and phosphatidic acid are two lipids that act as second messengers in signaling cascades. Their cellular concentrations are regulated by the encoded protein, and so it is thought to play an important role in cellular signal transduction. Alternative splicing results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) differs in the 5' UTR and uses a different in-frame start codon, compared to variant 2. The encoded isoform (1) has a shorter, distinct N-terminus, compared to isoform 2.