

Product datasheet for **SC308043**

DGKZ (NM_201533) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKZ (NM_201533) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGKZ
Synonyms:	DAGK5; DAGK6; DGK-ZETA; hDGKzeta
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_201533, the custom clone sequence may differ by one or more nucleotides

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ATGTGGCGCTACCGCTCCTGGGACGTGCCACAGATCCCATCAGAGGCACCCACAGACACAG
AAAGCCATCACCAAGTCGGGCCTCCAGCACCTGGCCCCCTCCGCCACCCCTGGGGCC
CCGTGCAGCGAGTCAGAGCGGCAGATCCGGAGTACAGTGGACTGGAGCGAGTCAGCGACA
TATGGGGAGCACATCTGGTTCGAGACCAACGTGTCCGGGACTTCTGCTACGTTGGGGAG
CAGTACTGTGTAGCCAGGATGCTGCAGAAGTCAGTGTCTCGAAGAAAGTGCAGCAGCCTGC
AAGATTGTGGTGCACACGCCCTGCATCGAGCAGCTGGAGAAGATAAATTTCCGCTGTAAG
CCGTCCTTCCGTGAATCAGGCTCCAGGAATGTCCGCGAGCCAACCTTTGTACGGCACAC
TGGGTACACAGACGACGCCAGGACGGCAAGTGTGGCACTGTGGGAAGGGATTCCAGCAG
AAGTTCACCTTCCACAGCAAGGAGATTGTGGCCATCAGCTGCTCGTGGTGAAGCAGGCA
TACCACAGCAAGGTGCTCTGCTTATGCTGCAGCAGATCGAGGAGCCGTGCTCGTGGGG
GTCACCGCAGCCGTGGTCAATCCCGCCACCTGGATCCTCCGCGCCCGAGGCCCCAGAAT
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GGCCCTGAGGAGGGCCGCTGGAGACCCTTATCATCAGGCCACCCCTCCCGCTCATG
AAGCCCTGCTGTGTTGTGAACCCCAAGAGTGGGGGAACAGGGTGCAGAAATCATC
CAGTCTTCTCTGGTATCTCAATCCCCGACAAGTCTTCGACCTGAGCCAGGGAGGGCCC
AAGGAGGCGTGGAGATGTACCGCAAAGTGCACAACCTGCGGATCCTGGCGTGGGGGGC
GACGGCACGGTGGGCTGGATCCTCTCCACCCTGGACCAGTACGCTGAAGCCGCCACCC
CCTGTTGCCATCTGCCCTGGTACTGGCAACGACTTGGCCCAACCTCAACTGGGGT
GGGGGTACACAGATGAGCCTGTGTCCAAGATCCTCTCCACGTGGAGGAGGGGAACGTG
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CGAGATGAAGGCCACCCGACCGTGGCCCTGGATGTCTTCAACAACACTTTCAGCCTG
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ACTCCAAGATCCAGGACCTGAAACCCAGTGTGTTGTTTCTGAACATCCCCAGGTAC
TGTGCGGGCACCATGCCCTGGGGCCACCCTGGGGAGCACCAGACTTGGAGCCAGCGG
CATGACGACGGCTACCTCGAGGTATTGGCTTACCATGACGTCGTTGGCCGCGTGCAG
GTGGGCGGACACGGCGAGCGGTGACGAGTGTGCGGAGGTGGTGTCTACCACATCCAAG
GCCATCCCGGTGCAGGTGGATGGCGAGCCCTGCAAGCTTGCAGCCTCACGCATCCGCATC
GCCTGCGCAACCCAGGCCACCATGGTGCAGAAGGCCAAGCGGCGGAGCGCCGCCCCCTG
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CACGACTATGAGGCCCTGCACTACGACAAGGAGCAGCTCAAGGAGGCCTCTGTGCCGCTG
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CTCCAGCAGGAGCCGATGGTGTGGAGCCAAGTCCCCGACATGCCAGAAACTGTCCCC
AAGTGGTGCTTCTGGACGCCACCACTGCCAGCCGCTTACAGGATCGACCGAGCCAG
GAGCACCTCAACTATGTGACTGAGATCGCACAGGATGAGATTTATATCTGGACCCTGAG
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CCCTGCTACCCACGCCCGGTCACTGCAAGGGATGCTGCACCCCTCAAGGTGAAGAG
CTGATTGAGGCTGCCAAGAGGAACGACTTCTGTAAGCTCCAGGAGCTGCACCGAGCTGGG
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TGCCACTACATCGTGGAGGCCGGGCTCGCTCATGAAGACAGACCAGCAGGGCGCACT
CCCCGGCAGCGGGCTGAGAAGGCTCAGGACACCGAGCTGGCCGCTACCTGGAGAACCGG
CAGCACTACCAGATGATCCAGCGGGAGGACCAGGAGACGGCTGTGTAG

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Restriction Sites: Please inquire

ACCN: NM_201533

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:	<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:	<u>NM_201533.1</u> , <u>NP_963291.1</u>
RefSeq Size:	3404 bp
RefSeq ORF:	2688 bp
Locus ID:	8525
UniProt ID:	<u>Q13574</u>
Cytogenetics:	11p11.2
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 may attenuate protein kinase C activity by regulating diacylglycerol levels in intracellular signaling cascade and signal transduction. Alternative splicing occurs at this locus and multiple transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Nov 2010]</p> <p>Transcript Variant: This variant (3) has an alternate 5' sequence including the coding region, lacks nts GAG at an alternate splice site and has extra nts CAG at another alternate splice sites in the CDS, compared to variant 4. The resulting isoform (3) has a shorter and distinct N-terminus, lacks an internal aa in one region and has an additional aa in another region, compared to isoform 4.</p>