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Product datasheet for SC310043

DGKZ (NM_003646) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKZ (NM_003646) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGKZ
Synonyms:	DAGK5; DAGK6; DGK-ZETA; hDGKzeta
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_003646 edited

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003646 unedited
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003646 unedited
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GCAAACAGTCTCCCCGTTTTCCTCACCGCATCAAGATCTTCTGGGGGGGGCCGTGGGTTC
AG

Restriction Sites: Please inquire

ACCN: NM_003646

Insert Size: 3700 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: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_003646.3, NP_003637.2
RefSeq Size:	3659 bp
RefSeq ORF:	2790 bp
Locus ID:	8525
UniProt ID:	Q13574
Cytogenetics:	11p11.2
Domains:	DAGKa, DAGKc, ANK, DAG_PE-bind
Protein Families:	Druggable Genome
Protein Pathways:	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
Gene Summary:	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] Transcript Variant: This variant (2) has an alternate 5' sequence including the coding region and extra nts CAG at an alternate splice site in the CDS, compared to variant 4. The resulting isoform (2) has a shorter and distinct N-terminus and an internal additional aa, compared to isoform 4.