OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC111619

DGKB (NM_004080) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKB (NM_004080) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGKB
Synonyms:	DAGK2; DGK; DGK-BETA
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_004080, the custom clone sequence may differ by one or more nucleotides

ATGACAAACCAGGAAAAATGGGCCCACCTCAGCCCTTCGGAATTTTCCCAACTTCAGAAATATGCTGAGT
ATTCTACAAAGAAATTAAAGGATGTTCTTGAAGAATTCCATGGTAATGGTGTGCTTGCAAAGTATAATCC
TGAAGGGAAACAAGACATTCTTAACCAAACAATAGATTTTGAAGGTTTCAAACTATTCATGAAGACATTC
CTGGAAGCCGAGCTTCCTGATGATTTCACTGCACACCTTTTCATGTCATTTAGCAACAAGTTTCCTCATT
CTAGTCCAATGGTAAAAAGTAAGCCTGCTCTCCTATCAGGCGGTCTGAGAATGAATAAAGGTGCCATCAC
CCCTCCCCGGACTACTTCTCCTGCAAATACGTGTTCCCCAGAAGTAATCCATCTGAAGGACATTGTCTGT
TACCTGTCTCTGCTTGAAAGAGGAAGACCTGAGGATAAGCTTGAGTTTATGTTTCGCCTTTATGACACGG
ATGGGAATGGCTTCCTGGACAGCTCGGAGCTAGAAAATATCATCAGTCAGATGATGCATGTTGCAGAATA
CCTTGAGTGGGATGTCACTGAACTTAATCCAATCCTCCATGAAATGATGGAAGAAATTGACTATGATCAT
GATGGAACCGTGTCTCTGGAGGAATGGATTCAAGGAGGAATGACAACGATTCCACTTCTTGTGCTCCTGG
GCTTAGAAAATAACGTGAAGGATGATGGACAGCACGTGTGGCGACTGAAGCACTTTAACAAACCTGCCTA
TTGCAACCTTTGCCTGAACATGCTGATTGGCGTGGGGAAGCAGGGCCTCTGCTGTTCCTTCTGCAAGTAC
ACAGTCCATGAGCGCTGTGTGGCTCGAGCACCTCCCTCTTGCATCAAGACCTATGTGAAGTCCAAAAGGA
ACACTGATGTCATGCACCATTACTGGGTTGAAGGTAACTGCCCAACCAAGTGTGATAAGTGCCACAAAAC
TGTTAAATGTTACCAGGGCCTGACAGGACTGCATTGTGTTTGGTGTCAGATCACACTGCATAATAAATGT
GCTTCTCATCTAAAACCTGAATGTGACTGTGGACCTTTGAAGGACCATATTTTACCACCCACAACAATCT
GTCCAGTGGTACTGCAGACTCTGCCCACTTCAGGAGTTTCAGTTCCTGAGGAAAGACAATCAACAGTGAA
AAAGGAAAAGAGTGGTTCCCAGCAGCCAAACAAAGTGATTGACAAGAATAAAATGCAAAGAGCCAACTCT
GTTACTGTAGATGGACAAGGCCTGCAGGTCACTCCTGTGCCTGGTACTCACCCACTTTTAGTTTTTGTGA
ACCCCAAAAGTGGTGGAAAACAAGGAGAACGAATTTACAGAAAATTCCAGTATCTATTAAATCCTCGTCA
GGTTTACAGTCTTTCTGGAAATGGACCAATGCCAGGGTTAAACTTTTTCCGTGATGTTCCTGACTTCAGA
GTGTTAGCCTGTGGTGGAGATGGAACCGTGGGCTGGGTTTTGGATTGCATAGAAAAGGCCAATGTAGGCA
AGCATCCTCCAGTTGCGATTCTGCCTCTTGGGACTGGCAATGATCTAGCAAGATGCCTGCGATGGGGAGG
AGGTTACGAAGGTGAGAATCTGATGAAAATTCTAAAAGACATTGAAAACAGCACAGAAATCATGTTGGAC
AGGTGGAAGTTTGAAGTCATACCTAATGACAAAGATGAGAAAGGAGACCCAGTGCCTTACAGTATCATCA
ATAATTACTTTTCCATTGGCGTGGATGCCTCCATTGCACACAGATTCCACATCATGAGAGAAAAACACCC
AGAGAAATTCAACAGTAGAATGAAGAACAAATTTTGGTATTTTGAGTTTGGCACATCTGAAACTTTCTCA
GCCACCTGCAAGAAGCTACATGAATCTGTAGAAATAGAATGTGATGGAGTACAGATAGATTTAATAAACA
TCTCTCTGGAAGGAATTGCTATTTTGAATATACCAAGCATGCATGGAGGATCCAATCTTTGGGGAGAGTC
TAAGAAAAGACGAAGCCATCGACGAATAGAGAAAAAAGGGTCTGACAAAAGGACCACCGTCACAGATGCC
AAAGAGTTGAAGTTTGCAAGTCAAGATCTCAGTGACCAGCTGCTGGAGGTGGTCGGCTTGGAAGGAGCCA
TGGAGATGGGGCAAATATACACAGGCCTGAAAAGTGCTGGCCGGCGGCTGGCTCAGTGCTCCTGCGTGGT
CATCAGGACGAGCAAGTCTCTGCCAATGCAAATTGATGGGGAGCCATGGATGCAGACCCCATGCACAATA
AAAATTACACACAAGAACCAAGCCCCAATGCTGATGGGCCCGCCTCCAAAAACCGGTTTATTCTGCTCCC
TCGTCAAAAGGACAAGAAACCGAAGCAAGGAATAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004080 unedited
CCATATCCCCGCCCGTTGCCGCAATGGGCGGTAGGCGTGTCCGGTGGGAGGTCTATATAA
GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCG
CGAATTCGGCACGAGGCAGACTTCCAATATCAACGCGTCTTGACATAAATCAAGGACTAA
GAGAGACTGAAGAAGAGCGTTAGTCATGGACAACAGTTCTTTAACACATTATTGAAATTA
CAAGCATCCAAAGCAGTTTCATGTGGACAGATTGCATATTTTGAAAGCCTGAGGTATTTT
ATCATGAAACATGCCATGTGGAATCTTTGAAGCATAGACCTCTGCGCAACACCTGAATAA
AGAATCTTTTACCTGGTATGTGACAGAGCTTCTCACCACCACCATGACAAACCAGGAAAA
ATGGGCCCACCTCAGCCCTTCGGAATTTTCCCAACTTCAGAAATATGCTGAGTATTCTAC
AAAGAAATTAAAGGATGTTCTTGAAGAATTCCATGGTAATGGTGTGCTTGCAAAGTATAA
TCCTGAAGGGACAATAGATTTTGAAGGTTTCAAACTATTCATGAAGACATTCCTGGAAGC
CGAGCTTCCTGATGATTTCACTGCACACCTTTTCATGTCATTTAGCAACAAGTTTCCTCA
TTCTAGTCCAATGGTAAAAAGTAAGCCTGCTCTCCTATCAGGCGGTCTGAGAATGAATAA
AGGTGCCATCACCCCTCCCCGGACTACTTCTCCTGCACATACGTGTTCCCCAGAAGTAAT
CCATCTGAAGGACATTGTCTGTTACCTGTCTCTGCTTGAAAGAGGAAGACCTGAGGATAC
GCTTGAGTTTATGTTTCGCCTTTAGACACGATGGGCATGGGCTCCTGGACAGCTCGGAGC
TAGAGATATCATCAGTCAGATGATGCCATGTGCAAATCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004080 unedited
NGGCCCTACTATGNACCGCGGCACGCATTCTAAGATCGATTTTTTTTTTTTTTTTTTGAG
TGGTTAACGTTTTTATTTCAAAAAACAGATATTGTATATATCATCTTCTGGAAAAAATAA
TCTAAGAGTACTACTAATCTAAGCTTCCATGGTTTTTAAACACAATAAGGTTATACAGAA
TCTCTCAAATGTGAGTTTACTCAAACTTTATTTAAATATAGCAGAATTTAATTGGGAGTT
TTAAGTGGTGATTTCTGCCTCTCACAAAATAAAAGCTCTTTTACAGGGTTTTATTTATTT
ATTTTCTTAAAGTTTACAGCTTTAATATATGTTACAAGGGTTTAATCTTTTAATAGAGAT
ATTATTCAGTTATTTGAAAAATAACGGAGAACATGATTCAATATTATTCAATTATTATTT
AATTGTTCAGTATTGAATAATCCTTTGGGGGTTATACGTGCCATGAAAAGTACATTTTCC
TTTTTTTTTTTTGAGACAGAGTCTGGCTCTGTCACCAGCTGGGGAAGTCCNTGGNGTTAT
CTTGGCTCACTGGCCCCGCAGCCTTCCGAGTTCAAACCATTCTTCTGCCCTAACCTCCCG
AATAGCTGGGATTACCAGGCTGTGCCACCCTGCCCGGGCAAATTTTGGATTTTTAGGAGA
GACCAAGGTTCACCCATATTGGCCACGCTGGTCCTTGACCTCCTGACCCTTGGGATTCTG
CCGGCCTTGGCCTCCCAAATGCCGGGATTACAAGGGGTAACCCTTGGGCCTGGCCCATTT
TCCCTTTTATACCCATGGACAAAAAATTACCGTGGACCCCAAAAGGAAAGAATGGTTCTC
CAAATCCTTGCTCCTTCCAGAATTACCGGTGAGATTTAAGGGAAAAA

Restriction Sites: NotI-NotI

ACCN: NM_004080

Insert Size: 6000 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).

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_004080.1, NP_004071.1
RefSeq Size:	3926 bp
RefSeq ORF:	2415 bp
Locus ID:	1607
UniProt ID:	Q9Y6T7
Cytogenetics:	7p21.2
Domains:	DAGKa, DAGKc, EFh, DAG_PE-bind
Protein Families:	Druggable Genome
Protein Pathways:	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
Gene Summary:	Diacylglycerol kinases (DGKs) are regulators of the intracellular concentration of the second messenger diacylglycerol (DAG) and thus play a key role in cellular processes. Nine mammalian isotypes have been identified, which are encoded by separate genes. Mammalian DGK isozymes contain a conserved catalytic (kinase) domain and a cysteine-rich domain (CRD). The protein encoded by this gene is a diacylglycerol kinase, beta isotype. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2017] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).