

Product datasheet for **RG211233**

DGKB (NM_145695) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKB (NM_145695) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DGKB
Synonyms:	DAGK2; DGK; DGK-BETA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG211233 representing NM_145695
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACAAACCAGGAAAAATGGGCCACCTCAGCCCTTCGGAATTTCCCAACTTCAGAAATATGCTGAGT
 ATTCTACAAAGAAATTAAGGATGTTCTTGAAGAATTCATGGTAAATGGTGTGCTTGCAAAGTATAATCC
 TGAAGGGAAACAAGACATTCTTAACCAAACAATAGATTTTGAAGGTTTCAAATTCATGAAGACATTC
 CTGGAAGCCGAGCTTCTGATGATTTCACTGCACACCTTTTCATGTCATTTAGCAACAAGTTTCTCATT
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 CATCAGGACGACCAAGTCTCTGCCAATGCAAATGATGGGAGCCATGGATGCAGACCCCATGCACAGTG
 AGTACAGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG211233 representing NM_145695
Red=Cloning site Green=Tags(s)

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MTNQEKAHLSPSEFSQLQKYAEYSTKKLKDVLLEEFHGNGVLAKYNPEGKQDILNQTIDFEGFKLFMKT
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VTVDGQGLQVTPVPGTHPLLVFVNPKSGGKQGERIYRKFQYLLNPRQVYSLSGNGPMPGLNFRDVPDFR
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ATCKKLHESVEIECDGVQIDLINISLEGIAILNIPSMHGGSNLWGESKKRRSHRRIEKKGS DKRTVTDA
KELKFASQDLSDQLLEVVGLGEMEMGQIYTGLKSAGRRLAQCSVVIRTSKSLPMQIDGEPWMQTPCTV
STE
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145695

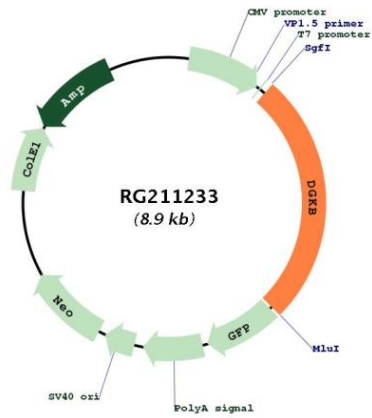
ORF Size: 2319 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	NM_145695.2 , NP_663733.1
RefSeq Size:	3172 bp
RefSeq ORF:	2322 bp
Locus ID:	1607
UniProt ID:	Q9Y6T7
Cytogenetics:	7p21.2
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]

Product images:



Circular map for RG211233