

## Product datasheet for **RG235017**

### **DGKZ (NM\_001199268) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DGKZ (NM_001199268) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DGKZ
Synonyms:	DAGK5; DAGK6; DGK-ZETA; hDGKzeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG235017 representing NM\_001199268  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCCGGGACGGTAGCCCGAGGCCGGAGCAGCGACTCCGAGTCGGCTTCGCCTCGTCCAGCG  
 GCTCCGAGCGCAGCAGCCGGTCCCAGGCCGACAAGGCGCCGCGGCGACTCAACAAGCGGCGCTTCCCGGG  
 GCTGCGGCTCTTCGGGCACAGGAAAGCCATCACCAAGTCGGGCCTCCAGCACCTGGCCCCCCTCCGCC  
 ACCCTGGGGCCCGTGCAGCGAGTCAGAGCGGCAGATCCGGAGTACAGTGGACTGGAGCGAGTCAGCGA  
 CATATGGGAGCAGATCTGGTTCGAGACCAACGTGTCCGGGACTTCTGCTACGTTGGGAGCAGTACTG  
 TGTAGCCAGGATGCTGCAGAAGTCAGTGTCTCGAAGAAAGTGCAGCAGCTGCAAGATTGTGGTGCACACG  
 CCCTGCATCGAGCAGCTGGAGAAGATAAATTTCCGCTGTAAAGCCGCTCTCCGTGAATCAGGCTCCAGGA  
 ATGTCCGCGAGGGATTCCAGCAGAAGTTCACCTCCACAGCAAGGAGATTGTGGCCATCAGCTGCTCGTG  
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 AAGCAAGCAAGAAGAAGAAGAGGGCATCCTTCAAGAGGAAGTCCAGCAAGAAAGGGCCTGAGGAGGGCCG  
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 TCGACCTGAGCCAGGGAGGGCCCAAGGAGGCGCTGGAGATGTACCGCAAAGTGCACAACCTGCGGATCCT  
 GGCGTGGGGGGCGACGGCAGGTGGCTGGATCCTCTCCACCTGGACCAGTACGCTGAAGCCGCCA  
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 GGACTCCACGCTGAGCCCAACCCGAGGCGCTGAGGACCGAGATGAAGGCCACCAGCCGCTTG  
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 GCACCATGCCCTGGGGCCACCCTGGGGAGCACCAGACTTTGAGCCCGAGCGCATGACGACGGCTACCT  
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 CCTGGAGAACCGGACGACTACCAGATGATCCAGCGGGAGGACCAGGAGACGGCTGTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - **GTTTAA**

**Protein Sequence:** >RG235017 representing NM\_001199268  
 Red=Cloning site Green=Tags(s)

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MEPRDGSPEARSSDSESASASSSGSERDAGPEPDKAPRRLNKRFPGLRFLGHRKAITKSLQHLAPPPP
TPGAPCSESERQIRSTVDWSESATYGEHIWFETNVSGDFCYVGEQYCVARMLQKSVSRKCAACKIVVHT
PCIEQLEKINFRCKPSFRESGSRNVREGFQQKFTFHSKEIVAISSWCKQAYHSKVSCFMLQQIEEPCSL
GVHAAVVIPPTWILRARRPQNTLKASKKKKRASFKRKSSKKGPEEGRWRPFIIIRPTPSPLMKPLL VFNVP
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PPVAILPLGTGNDLARTLNWGGGYTDEPVSKILSHVEEGNVVQLDRWDLHAEPNPEAGPEDRDEGATDRL
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LTPKIQDLKPQC VVFLNIPRYCAGTMPWGHGPEHHDFFEPQRHDDGYLEVI GF TMTSLAALQVGGHGERLT
QCREVVLTTSKAIPVQVDGEPCKLAASRIRIALRNQATMVQKAKRRSAAPLHSDQQPVPEQLRIQVSRVS
MHDYEALHYDKQLKEASVPLGTVVVPGSDLELCRAHIERLQQEPDGAGAKSPTCQKLSPKWCFDATT
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ELIEAAKRNDFCKLQELHRAGGDLMRDEQSRTLLHHAVSTGSKDVVRYLLDHAPPEILDAVEENGETCL
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```

TRTRPLE - GFP Tag - V

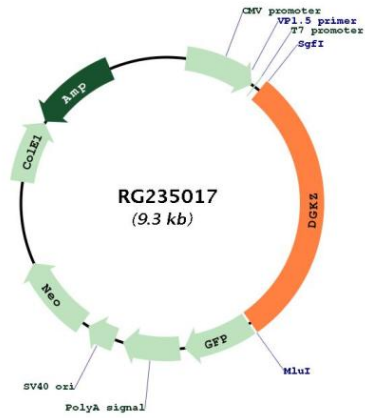
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_001199268
<b>ORF Size:</b>	2718 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001199268.2</a>
<b>RefSeq Size:</b>	3590 bp
<b>RefSeq ORF:</b>	2721 bp
<b>Locus ID:</b>	8525
<b>UniProt ID:</b>	<a href="#">Q13574</a>
<b>Cytogenetics:</b>	11p11.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
<b>Gene Summary:</b>	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]

Product images:



Circular map for RG235017