

## Product datasheet for **RG219913**

### **DGKE (NM\_003647) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DGKE (NM_003647) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DGKE
Synonyms:	AHUS7; DAGK5; DAGK6; DGK; NPHS7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG219913 representing NM\_003647  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGCGGAGAGGCGGCCGGCTCGCCTCCGAGGGCCTGTTTGCAGACGGGCACCTGATCT  
 TGTGGACGCTGTGCTCGGTCTGCTGCCGGTGTTCATCACCTTCTGGTGTAGCCTCCAGCGGTCCGCGCCG  
 GCAGCTGCACCGCAGGGACATCTTCCGCAAGAGCAAGCACGGATGGCGGACACGGACCTGTTCAGCCAG  
 CCCACCTACTGCTGCGTGTGCGCGCAGCACATTCTGCAGGGCGCCTTCTGCGACTGCTGCGGGCTCCGCG  
 TGGACGAGGGTGCCTCAGGAAGGCCGACAAGCGCTTCCAGTGAAGGAGATTATGCTCAAGAATGACAC  
 CAAGGTCTGGACGCCATGCCCCACCACTGGATCCGGGGCAACGTGCCGCTGTGCAGTTACTGTATGGTT  
 TGCAAGCAGCAGTGTGGCTGTCAACCAAGCTTTGCGATTACAGGTGCATTTGGTCCAGAAAACAGTAC  
 ATGATGAGTGCATGAAAAATAGTTTAAAGAATGAAAAATGTATTTGGAGAATTCAAAACTAATCAT  
 TCCACCAAGTTATTTAACATCCATTAATCAGATGCGTAAAGACAAAAAACAGATTATGAAGTGCTAGCC  
 TCTAAGCTTGGAAAGCAGTGGACCCATTAATAATCCTGGCCAACCTCCTGATGGAACCTAATATGGGAG  
 AAGGACTGTTGGGAGAATTTAGGATCTTGTGAATCCAGTCCAGGTTTTTGTATGTAATAAACTCCTCC  
 TATCAAAGCCCTACAACCTGTACTCTTCTCCCATATTATTCAGTCCAGTACTTGTGTTGTGGAGGGGAT  
 GGGACTGTAGGGTGGTCTGGATGCAGTTGATGACATGAAGATTAAGGGACAAGAAAAGTACATTTCCAC  
 AAGTTGCAGTTTTGCCTCTGGGAACAGGCAACGATCTATCCAATACATTTGGTTGGGGTACAGGTTATGC  
 TGGAGAAATCCAGTTGCGCAGGTTTTGCGAAATGTAATGGAAGCAGATGGAATTAAGTATGATCGATGG  
 AAAGTTCAAGTAACAAAATAAAGGATACTACAACCTAAGAAAACCAAGGAATTCACAATGAACAACCTATT  
 TTTCTGTTGGACCTGATGCTCTCATGGCTCTCAATTTTTCATGCTCATCGTGAAGGCACCATCTGTGTT  
 TTCTAGCAGAATTTAATAAAGGCGTTTTACTTATTCTATGGAACCAAAGATTGTTTAGTGAAGAATGT  
 AAAGATTTGAATAAAAAAGTTGAGCTAGAAGTGGATGGTGGAGCAGTAGCACTGCCAGCTTGAAGGTA  
 TTATAGTTCTGAACATCGGATACTGGGCGGTGGCTGCAGACTATGGGAAGGGATGGGGACGAGACTTA  
 CCCTCTAGCCAGGCATGACGATGGTCTGCTGGAAGTCTGGAGTATATGGGCTTTTCCACTGTGCTCAG  
 ATTCAAGTAAACTGGCTAATCCTTTTTCGAATAGGACAGGCACATACAGTGGGCTGATTTTGAAGTGT  
 CCATGATGCCAATGCAGGTGGATGGGGAGCCTTGGGCCCAAGGGCCCTGCACTGTACCATAACTCACAA  
 GACACATGCAATGATGTTATATTTCTCTGGAGAACAACAGATGATGACATCTCTAGTACTTCGGATCAA  
 GAAGATATAAAGCGGACTGAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG219913 representing NM\_003647  
 Red=Cloning site Green=Tags(s)

MEAERRPAPGSPSEGLFADGHLILWTLCSVLLPVFITFWCSLQRSRRQLHRRDIFRKSKHGWRDLDLFSQ  
 PTYCCVCAQHILQGAFCDCCGLRVDEGCLRKADKRFQCKEIMLKNDTKVLDAMPHHWIRGNVPLCSYCMV  
 CKQQCGCQPKLCDYRCIWCQKTVHDECMKNSLKNEKCDFGEFKNLIIPPSYLTINQMRKDKKTDYEVLA  
 SKLGKQWTPLIILANSRSGTNMGEGLLGEFRILLNPVQVFDVTKTPPIKALQLCTLLPYYSARVLCVGGD  
 GTVGVWLDVAVDDMKIKGQEKYIPQAVLPLGTGNDLNTLGGWTGYAGEIPVAQVLRNVMEADGIKLDLDRW  
 KVQVTNKGYYNLRKPKFTMNNYFVSGPDALMALNFHAHREKAPSLFSSRILNKAVYLYFGTKDCLVQEC  
 KDLNKKVELELDGERVALPSLEGIIVLNIGYGGGCRLEWGMGDETYPLARHDDGLLEVVGVYGSFHCAQ  
 IQVKLANPFRIGQAHTVRLILKCSMMPMQVDGEPWAQGPCTVTITHKTHAMMLYFSGEQTDDDISSTSDQ  
 EDIKATE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



<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_003647.1</a> , <a href="#">NP_003638.1</a>
<b>RefSeq Size:</b>	2562 bp
<b>RefSeq ORF:</b>	1704 bp
<b>Locus ID:</b>	8526
<b>UniProt ID:</b>	<a href="#">P52429</a>
<b>Cytogenetics:</b>	17q22
<b>Domains:</b>	DAGKa, DAGKc, DAG_PE-bind
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
<b>Gene Summary:</b>	Diacylglycerol kinases are thought to be involved mainly in the regeneration of phosphatidylinositol (PI) from diacylglycerol in the PI-cycle during cell signal transduction. When expressed in mammalian cells, DGK-epsilon shows specificity for arachidonyl-containing diacylglycerol. DGK-epsilon is expressed predominantly in testis. [provided by RefSeq, Jul 2008]