

Product datasheet for **RG220293**

DGKA (NM_201554) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKA (NM_201554) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DGKA
Synonyms:	DAGK; DAGK1; DGK-alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG220293 representing NM_201554
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAAGGAGAGGGGCTAATAAGCCCCAGTGATTTTGCCAGCTGCAAAAATACATGGAATACTCCA
 CCAAAAAGGTCAGTGATGTCCTAAAGCTCTCGAGGATGGCGAGATGGCTAAATATGTCCAAGGAGATGC
 CATTGGGTACGAGGGATTCCAGCAATTCCTGAAAATCTATCTCGAAGTGGATAATGTTCCAGACACCTA
 AGCCTGGCACTGTTTCAATCCTTTGAGACTGGTCACTGCTTAAATGAGACAAATGTGACAAAAGATGTGG
 TGTGTCTCAATGATGTTTCTGCTACTTTTCCCTTCTGGAGGGTGGTCGGCCAGAAGACAAGTTAGAATT
 CACCTTCAAGCTGTACGACACGGACAGAAATGGGATCCTGGACAGCTCAGAAGTGGACAAAATTATCCTA
 CAGATGATGCGAGTGGCTGAATACCTGGATTGGGATGTGTCTGAGCTGAGGCCGATTCTTCAGGAGATGA
 TAAAAGAGATTGACTATGATGGCAGTGGCTCTGTCTCTCAAGCTGAGTGGTCCGGGCTGGGGCCACCAC
 CGTGCCACTGCTAGTGTCTGGTCTGGAGATGACTCTGAAGGACGACGGACAGCACATGTGGAGGCC
 AAGAGGTTCCCCAGACCAGTCTACTGCAATCTGTGCGAGTCAAGCATTGGTCTTGCCAAAACAGGGACTGA
 GCTGTAACCTCTGTAAGTACACTGTTTACGACCAGTGTGCCATGAAAGCCCTGCCTTGTGAAGTCAGCAC
 CTATGCCAAGTCTCGGAAGGACATTGGTGTCCAATCACATGTGTGGTGGCAGGAGGCTGTGAGTCCGGG
 CGCTGCGACCGCTGTGAGAAAAGATCCGGATCTACCACAGTCTGACCGGCTGCATTGTGTATGGTGCC
 ACCTAGAGATCCACGATGACTGCCTGCAAGCGTGGGCCATGAGTGTGACTGTGGGCTGCTCCGGGATCA
 CATCCTGCCTCCATCTTCCATCTATCCCAGTGTCTGGCTCTGGACCGGATCGTAAAAATAGCAAAAACA
 AGCCAGAAGACCATGGATGATTTAAATTTGAGCACCTCTGAGGCTCTGCGGATTGACCCTGTTCTAACA
 CCCACCCACTTCTCGTCTTTGTCAATCTTAAGAGTGGCGGGAAGCAGGGGCAGAGGGTCTCGGAAGT
 CCAGTATATATTAACCCTCGACAGGTGTTCAACCTCCTAAAGGATGGTCTGAGATAGGGCTCCGATTA
 TTCAAGGATGTTCTGATAGCCGGATTTTGGTGTGGTGGAGACGGCACAGTAGGCTGGATTCTAGAGA
 CCATTGACAAAGCTAACTTGCCAGTTTTGCCTCCTGTTGTGTGTGCCCTGGTACTGGAATGATCT
 GGCTCGATGCCTAAGATGGGAGGAGGTTATGAAGGACAGAATCTGGCAAAGATCCTCAAGGATTTAGAG
 ATGAGTAAAGTGGTACATATGGATCGATGGTCTGTGGAGGTGATACCTCAACAACTGAAGAAAAAGTG
 ACCCAGTCCCCTTTCAAATCATCAATAACTACTTCTCTATTGGCGTGGATGCCTCTATTGCTCATCGATT
 CCACATCATGCGAGAGAAAATATCCGGAGAAGTTCAACAGCAGAATGAAGAACAAGCTATGGTACTTCGAA
 TTTGCCACATCTGAATCCATCTTCTCAACATGCAAAAAGCTGGAGGAGTCTTTGACAGTTGAGATCTGTG
 GAAACCCTGGATCTGAGCAACCTGTCCCTAGAAGGCATCGCAGTGTAAACATCCCTAGCATGCATGG
 TGCTCCAACCTCTGGGTGATACCAGGAGACCCCATGGGGATATCTATGGGATCAACCAGGCCCTTAGGT
 GCTACAGCTAAAGTATCACCGACCCTGATATCCTGAAAACCTGTGTACCAGACCTAAGTACAAGAGAC
 TGGAAAGTGGTGGGCTGGAGGGTCAATTGAGATGGGCCAAATCTATACCAAGCTCAAGAATGCTGGACG
 TCGGCTGGCCAAGTGTCTGAGATCACCTTCCACACCACAAAACCCCTCCCATGCAAATGACGGAGAA
 CCCTGGATGCAGACGCCCTGTACAATCAAGATCACCCACAAGAACCAGATGCCATGCTCATGGGCCAC
 CCCCCGCTCCACCAATTTCTTTGGCTTCTTGAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG220293 representing NM_201554
Red=Cloning site Green=Tags(s)

```

MAKERGLISPSDFALQKQYMEYSTKKVSDVLKLFEDGEMAKYVQGDAIGYEGFQQFLKIYLEVDNVPRLH
SLALFQSFETGHCLNETNVTKDVVCLNDVSCYFSLLEGGRPEDKLEFTFKLYDTRNGILDSSEVDKIIIL
QMMRVAEYLDWDVSELRPILQEMMKEIDYDGSQSVSQAEWVRAGATTVPLLVLGLEM TLKDDGGQHMWRP
KRFRPRVYCNLCESSIGLGKQGLSCNLCKYTVHDQCAMKALPCEVSTYAKSRKDIGVQSHVWVRGGCESG
RCDRCQKKIRIYHSLTGLHCVWCHLEIHDDCLQAVGHECDCGLLRDHILPPSSIYPSVLSGPDNRKNSKT
SQKTMDDLNLSTSEALRIDPVPNTHPLLVFVNPKSGGKQQRVWLKFKYILNPRQVFNLLKDGPEIGLRL
FKDVPDSRILVCGGDGTGVWILETIDKANLPVLPVAVLPLGTGNDLARCLRWGGGYEQNLAKILKDLDE
MSKVVHMDRWSVEVIPQQTEEKSDPVPFQIINNYFSIGVDASIAHRFHIMREKYPEKFNSRMKNKLWYFE
FATSEIFSTCKKLEESLVEICGKPLDLSNLSLEGI AVLNIPSMHGGSNLWGDTRRPHGDIYGINQALG
ATAKVITDPDILKTCVPLSDKRLEVVGLEGAIE MGQIYTKLKNAGRRLAKCSEITFHHTKTLPMQIDGE
PWMQTPCTIKITHKNQMPMLMGPPPRSTNFFGFLS
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_201554

ORF Size: 2205 bp

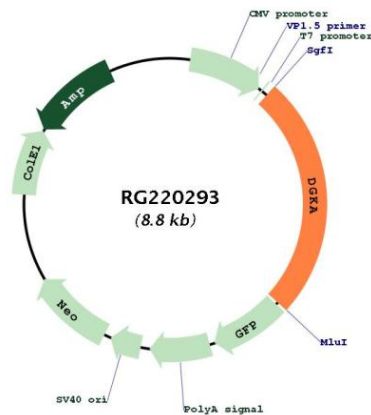
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_201554.1 , NP_963848.1
RefSeq Size:	2669 bp
RefSeq ORF:	2208 bp
Locus ID:	1606
UniProt ID:	P23743
Cytogenetics:	12q13.2
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 acts as a modulator that competes with protein kinase C for the second messenger diacylglycerol in intracellular signaling pathways. It also plays an important role in the resynthesis of phosphatidylinositols and phosphorylating diacylglycerol to phosphatidic acid. Several transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Apr 2017]

Product images:



Circular map for RG220293