

## Product datasheet for **RC239785**

### DGKH (NM\_001297429) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DGKH (NM_001297429) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DGKH
Synonyms:	DGKeta
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RC239785 representing NM\_001297429  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTGGAACATTTCTCAGGGATGCACAACCTGGTACGCCTGCTCCCACGCCGACCACCTTCTGTAACTG  
GTGCAGAGAGAGTCTTTCTGGAGTCACTCCCATGGCCTGTCTGCGAAGGTACACACTGCCTGCAAAGA  
TTTATACCATCCAATATGTCCAATTGGTCAATGTAAGTATCTATCATACCTCCAATTGCACTAAACAGC  
ACCGATTCCGATGGTTTCTGTAGAGCAACATTTTCGTTCTGTGTTAGTCTCTATTGGTTTTGTCAATT  
CTAAGAGTGGAGATAATCAGGGAGTAAAGTTCTCCGTCGCTTAAACAGTTGCTAAATCCGGCTCAGGT  
GTTTGATTTAATGAATGGAGTCTCATTTAGGTTAAGATTATTTAGAAAGTTTGACAATTTCCGGATT  
CTTGTTTGTGGAGGCGATGGAAGTGTAGTTGGGTTTTGTGAGAAATCGATAAGCTCAACTGAATAAAC  
AGTGTGAGTGGGAGTGTGCCTTTGGGTACAGGAAATGACCTTGCCCGAGTTCTTGCTGGGGAGGTTT  
ATATGACGATGACACCAACTTCTCAGATCCTAGAGAACTGGAACGAGCCAGTACCAAAATGTTGGAC  
AGGTGGAGTATAATGACATATGAACTCAAATTGCCACCAAAAGCTTCCCTACTTCCAGGACTCCAGAAG  
CATCTGAAGAATTTATATGACGATTTATGAAGACTCAGTTGCAACGCATCTTACAAAAATCCTCAATTC  
TGATGAACATGCAGTGGTCATATCTTCTGCCAAGACGCTATGTGAACTGTAAAGGACTTCGTTGCCAAA  
GTAGAAAAGAGCTATGACAAAACCTTGGAAAATGCCGTTGTAGCTGATGCCGTGGCCAGTAAATGTTTCA  
TCCTAAACGAGAAGCTCGAACAACCTGCTGCAGGCTTTCACACAGATTCCAGGCTGCGCCTGTTCTCCC  
TGGCCTCAGCCCTCTCATTGTGGAAGAAGTGTGTGGAATCGTCCAGTGAAGAGTCCCTGGGTGAAAGC  
AAAGAGCAGCTTGGGGATGACGTTACAAAACCTTCTCCAGAAAGCCGTCAAACCAAGGAAAATCATGT  
TGCGGGCAAATAGTTTAAAGAAAGCAGTGAAGCAAGTCAATGAGGAAGCCGGAAGTTATGGATGACCC  
GACAGTTCAACCCCTGTGAACAGCTAATCAGTCCCTCTGATTATGACAGCACAGAAAACAGATGAATCTAAG  
GAGGAAGCTAAAGATGATGGTGCCAAAGAATCAATAACTGTTAAAACCTGCACCTCGGTCTCCAGATGCC  
GGCAAGTTATGGCCATCCCAAATGATTCTGTCCCTGGTCCAGCTGTGGCAGCCAGCAAAGAAAACCT  
CCCTGTGCTCAATACCAGAATAATCTGCCAGGTTTAAAGAGCAGGACTGGCTGCCTCAATTGCTGGGAGT  
TCGATTATCAACAAAATGTTACTGGCAAACATTGATCCTTTTGGTCCACGCCGTTTATTGACCCGGATC  
TAGATCCGTAGATGGATATTCAGAAAATGTGCATGAACAATTACTTTGGGATTGGATTAGATGCAAA  
AATTTTCATTAGAATTTAATAATAAAAGAGAGGAGCACCCTGAAAATGCAGGAGCCGAACTAAAACTTG  
ATGTGGTATGGAGTCTTGAACCCGGGAGTTATTACAGAGATCGTACAAGAATTTAGAACAAGGGTTC  
AACTTGAGTGTGATGGGAGTATATTCCTTCCAGCTTGAAGGCATAGCCGTGTTGAACATCCAG  
CTATGCTGGAGGCACTAACTTTGGGGTGAACCTAAAGAGGATGATATATTTGCTGCACCATCCTTTGAT  
GACAAGATCCTGGAAGTTGTAGCAATATTTGATAGCATGCAATGGCAGTTTCAAGGGTCATTAACCTGC  
AGCATCATCGAATAGCCAGTGGCTACAGTGAATCACTATATTTGGTACGAAAGGAGTCCCAGTGC  
AGTGGATGGTGAAGCGTGGGTTCCAGCTCCAGGATTATCAAAATTTGTGCACAAAACAGAGCACAATG  
CTAACAAGGACAGAGCCTTTGAGAGCACTCTGAAATCTTGGGAAGATAAGCAGAAGTGTGATTCTGGTA  
AACCAGTTCTCCGAACCCATTTGTACATCCATCACGCCATTGACTTGGCAACAGAAGAGGTGTGCGAGT  
GCAGTATGCTCCAGGCTGCAGAGGAGCTCATTACTAGGATATGTGACGCAGCCACAATTCAGTGTCTT  
TTGGAGCAAGAAGTGGCCATGCTGTGAATGCCTGCTCCATGCCCTGAATAAAGCCAACCAAGGTGCC  
CGGAGAGTCTTACAAGAGACTGCCACTGAAATAGCCATCAATGTGAAGGCGCTGTATAATGAAACAGA  
ATCTTTGCTAGTTGGCAGGGTTCCTTTGCAGCTGGAATCGCCACATGAAGAGCGAGTATCCAATGCCTTA  
CACTCTGTGGAGTGGAAATACAGAAAACGACAGAGATTCTTGGCTTTATTATATCTTACACCCAAATG  
AGGATGAGGAACCTCTATGGATTGCACAAAAGGAACAACAGAAGCACCATTTTCAATAGTGCCAAA  
GTTTTAAAAGGAAAAGTTTCAAGCAGAAGACAAGTTTACAGCCTGGATCTGGGATACCGAAAGTGG  
TCATGTGAAGCGAATTCAGGGAAT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239785 representing NM\_001297429  
 Red=Cloning site Green=Tags(s)

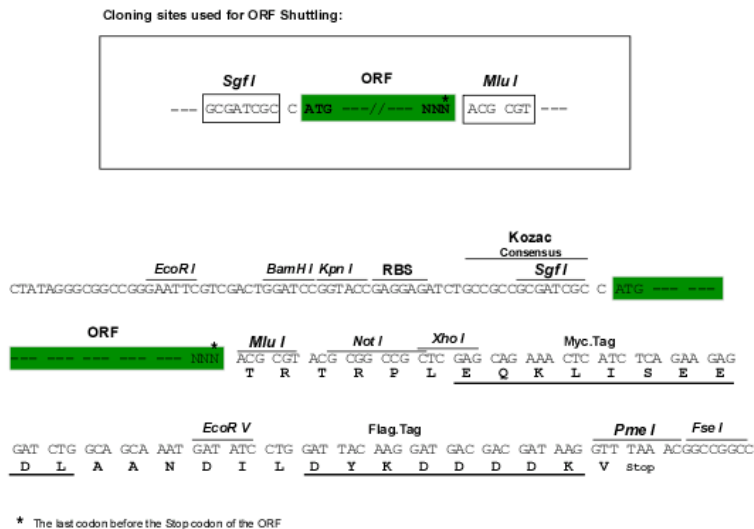
MWNISQGCTTGTPAPTPDPPSVTCAERVFLESPPMACPAKVHTACKDLYHPICPLGQCKVSIIPPIALNS  
 TDSDGFCRATFSFCVSPLLVFNKSGDNQGVKFLRRFKQLLNPAQVFDLMNGGPHLGLRFLQKFDNFRI  
 LVCGGDGSGVGVWVSEIDKLNLNKQCQLGVLPLGTGNDLARVLGWGGSYDDDTQLPQILEKLERASTKMLD  
 RWSIMTYELKLPKASLLPGPEASEEFYMTIYEDSVATHLTKILNSDEHAVVISSAKTL CETVKDFVAK  
 VEKTYDKTLENVAVDAVASKCSVLNEKLEQLLQALHTDSQAAPVLPGLSPLIVEEDAVESSEESLGS  
 KEQLGDDVTKPSSQKAVKPREIMLRANSLKKAQRQVIEEAGKVMDDPTVHPCEPANQSSDYDSTETDESK  
 EEAKDDGAKESITVKTAPRSPDARASYGHSQTDSVGPVAVAASKENLPVLNTRIIICPLRAGLAASIAGS  
 SIINKMLLANIDPFATPFIDPDLDSVDGYSEKVMNNYFGIGLDAKISLEFNNKREEHPEKCRSRTKNL  
 MWYGVLTRELLQRSYKLEQRVQLECDGQYIPLPSLQGIAVLNIPSYAGGTNFWGGTKEDDIFAAPSF  
 DKILEVVAIFDSMQMAVSRVIKQHHRIAQCRTVKITIFGDEGVPVQVDGEAWVQPPGIKIVHKNRAQM  
 LTRDRAFESTLKSWEKQKCDSGKPVLRTHLYIHHAIDLATEEVSQMLCSQAAEELITRICDAATIHCL  
 LEQELAHAVNACSHALNKANPRCPESL TRDTATEIAINVKALYNETESLLVGRVPLQLESPHEERSNAL  
 HSVEVELQKLEIPWLYIILHPNEDEEPPMDCTKRNNRSTVFRIVPKFKKEKVQKQKTSSQPGSGDTESS  
 SCEANSPGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

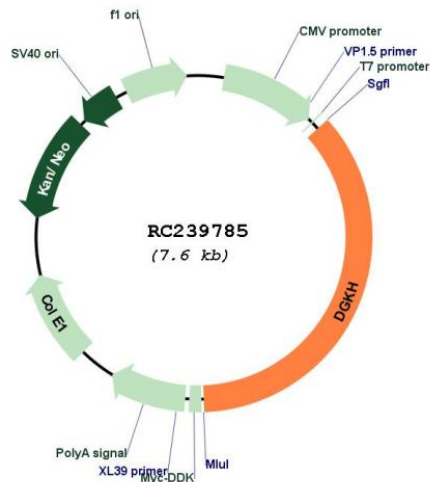
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001297429

ORF Size: 2757 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:

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\\_001297429.2](#)

RefSeq Size: 16746 bp

RefSeq ORF: 2760 bp

Locus ID: 160851

UniProt ID: [Q86XP1](#)

Cytogenetics: 13q14.11

<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
<b>MW:</b>	101.5 kDa
<b>Gene Summary:</b>	This gene encodes a member of the diacylglycerol kinase (DGK) enzyme family. Members of this family are involved in regulating intracellular concentrations of diacylglycerol and phosphatidic acid. Variation in this gene has been associated with bipolar disorder. Alternatively spliced transcript variants have been identified. [provided by RefSeq, Jul 2014]