

## Product datasheet for **RC219645**

### **DGKZ (NM\_201532) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DGKZ (NM_201532) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DGKZ
Synonyms:	DAGK5; DAGK6; DGK-ZETA; hDGKzeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC219645 representing NM\_201532  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGAGGGCAGGGCGCGGAGGGCAGCGCTGGGACTGGGCTGGCGCGGCCGGGCAGCCGAGGAGG  
 AGGTGGTGCGGCGCGATGCCGGCGCGGGAGGAGGCCAGGTCGCGCAGCCCTGGCCCGAGGGTCCCG  
 GGGCACGGCCGCTGGGCCCCCGGTGGAGGAGCGTTTCCGCCAGCTGCACCTACGAAAGCAGGTGTCTTAC  
 AGGAAAGCCATCACCAAGTCGGGCCTCCAGCACCTGGCCCCCCTCCGCCACCCCTGGGGCCCCGTGCA  
 GCGAGTCAGAGCGGCAGATCCGGAGTACAGTGGACTGGAGCGAGTCAGCGACATATGGGGAGCACATCTG  
 GTTCGAGACCAACGTGTCCGGGACTTCTGCTACGTTGGGGAGCAGTACTGTGTAGCCAGGATGCTGAAG  
 TCAGTGTCTCGAAGAAAGTGCAGCAGCTGCAAGATTGTGGTGCACACGCCCTGCATCGAGCAGCTGGAGA  
 AGATAAATTTCCGCTGTAAGCCGCTCTTCCGTGAATCAGGCTCCAGGAATGTCCGCGAGCCAACCTTTGT  
 ACGGCACCACTGGGTACACAGACGACGCCAGGACGGCAAGTGTCCGCACTGTGGGAAGGGATTCCAGCAG  
 AAGTTCACCTTCCACAGCAAGGAGATTGTGGCCATCAGCTGCTCGTGGTGAAGCAGGCATACCACAGCA  
 AGGTGTCCTGCTTCATGCTGCAGCAGATCGAGGAGCCGTGCTCGTGGGGTCCACGCAGCCGTGGTTCAT  
 CCCGCCACCTGGATCCTCCGCGCCCGGAGGCCCCAGAATACTCTGAAAGCAAGCAAGAAGAAGAAGAGG  
 GCATCCTTCAAGAGGAAGTCCAGCAAGAAAGGGCCTGAGGAGGGCCGCTGGAGACCCCTTCATCATCAGGC  
 CCACCCCTCCCGCTCATGAAGCCCTGCTGGTGTGGTGAACCCCAAGAGTGGGGCAACCCAGGGTGC  
 AAAGATCATCCAGTCTTCTCTGGTATCTCAATCCCCGACAAGTCTTCGACCTGAGCCAGGAGGGCC  
 AAGGAGGCGCTGGAGATGTACCGCAAAGTGCACAACCTGCGGATCCTGGCGTGGGGGGCGACGGCACGG  
 TGGGCTGGATCCTTCCACCTGGACAGCTACGCCTGAAGCCGCCACCCCTGTTGCCATCTGCCCT  
 GGGTACTGGCAACGACTTGGCCCGAACCTCAACTGGGGTGGGGGCTACACAGATGAGCCTGTGTCCAAG  
 ATCCTCTCCACGTGGAGGAGGGAACTGGTACAGCTGGACCGTGGGACCTCCACGCTGAGCCCAACC  
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 TTCAACAGCCGCTTTGGAATAAGATGTTCTACGCCGGGACAGCTTTCTGACTTCTGATGGGACGCT  
 CCAAGGACCTGGCAAGCACATCCGAGTGGTGTGTGATGGAATGGACTTGACTCCAAGATCCAGGACCT  
 GAAACCCAGTGTGTTGTTTCTGAACATCCCCAGTACTGTGCGGGCACCATGCCCTGGGGCCACCT  
 GGGGAGCACCCAGCTTTGAGCCCCAGCGCATGACGACGGCTACCTCGAGGTGATTGGCTTACCATGA  
 CGTCGTTGGCCGCGCTGCAGGTGGGCGGACACGGCGAGCGGCTGACGCAGTGTCCGAGGTTGGTGTCCAC  
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 GCCCTGGCAACCCAGGCCACCATGGTGCAGAAGGCCAAGCGGGGAGCGCCGCCCCCTGCACAGCGACC  
 AGCAGCCGGTGCCAGAGCAGTTGCGCATCCAGGTGAGTCGCGTCAGCATGCACGACTATGAGGCCCTGCA  
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 CTAGAGCTTCCCGTGCCACATGAGAGACTCCAGCAGGAGCCCGATGGTGTGGAGCCAAGTCCCCGA  
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 CCGAGCCAGGACCACTCAACTATGTGACTGAGATCGCACAGGATGAGATTTATATCCTGGACCCCTGAG  
 CTGCTGGGGCATCGGCCCGCCCTGACCTCCCAACCCCACTTCCCTCTCCCACTCACCTGCTCAC  
 CCACGCCCGGCTCACTGAAGGGGATGCTGCACCCCTCAAGGTGAAGAGCTGATTGAGGCTGCCAAGAG  
 GAACGACTTCTGTAAGCTCCAGGAGCTGCACCGAGCTGGGGGCGACCTCATGCACCGAGACGAGCAGAGT  
 CGCACGCTCCTGCACCACGAGTCAAGTGGCAGCAAGGATGTGGTCCGCTACCTGCTGGACCACGCC  
 CCCCAGAGATCCTTGTGCGGTGGAGGAAAACGGGGAGACCTGTTTGCACCAAGCAGCGGCCCTGGGCCA  
 GCGCACCATCTGCCACTACATCGTGGAGGCCGGGCTCGCTCATGAAGACAGACCAGCGGGCAGACT  
 CCCCAGCAGCGGCTGAGAAGGCTCAGGACACCGAGCTGGCCGCTACCTGGAGAACCGGCAGCACTACC  
 AGATGATCCAGCGGGAGGACCAGGAGACGGCTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC219645 representing NM\_201532  
 Red=Cloning site Green=Tags(s)

MAEQGGGGQRWDWAGGGRAAEEEEVRRRCRRGEEAQAQVPWPEGSRGTAAGPPVEERFRQLHLRKQVSY  
 RKAITKSLQLHAPPPTPGAPCSESERQIRSTVDWSEATYGEHIWFETNVSGDFCYVGEQYCVARMLK  
 SVSRRKCAACKI VVHTPCIEQLEKINFRCKPSFRESGSRNVREPTFVRHHVHRRRQDGKCRHCGKGFQQ  
 KFTFHSKEIVAI SCWCKQAYHSKVSFCMLQQIEEPCSLGVHAAVVIPPTWILRARRPQNTLKASKKKKR  
 ASFKRKS SKKGP EEGRWRPF IIRPTSPMLKPLL VFNPKSGGNQGA KIIQSFLWYLNPRQVFDLSQGGP  
 KEALEMYRKVHNLRLILACGGDGTVGWILSTLDQLRLKPPPPVAILPLGTGNDLARTLNWGGGYTDEPVSK  
 ILSHVEEGNVVQLDRWDLHAEPNPEAGPEDRDEGATDRLPLDVFNNYFSLGFDAHVTLFESREANPEK  
 FNSRFRNKM FYAGTAF SDFLMGSSKDLAKHIRVCDGMDLTPKIQDLKPQC VVFLNIPRYCAGTMPWGH  
 GEHDFEPQRHDDGYLEVI GFTMTSLAALQVGGHGERLTQCREVLTTSKAI PVQVDGEPCKLAASRIRI  
 ALRNQATMVQKAKRRSAAPLHSDQQPVEQLRIQVSRVSMHDYEALHYDKEQLKEASVPLGTVVVPGDSD  
 LELCRAHIERLQQEPDGAGAKSPTCQKLSPKWCFLDATTASRFYRIDRAQEHLNVTIEIAQDEIYILDPE  
 LLGASARPDLP TPTSPLPTSPCSPTPRSLQGDAAPPQGEELIEAAKRND FCKLQELHRAGDLMHRDEQS  
 RTLLHHAVSTGSKD VVRYLLDHAPPEILD AVEENGETCLHQAAALGQRTICHYIVEAGASLMKTDQQGD  
 PRQRAEKAQDTELAAYLENRQHYQMIQREDQETA V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

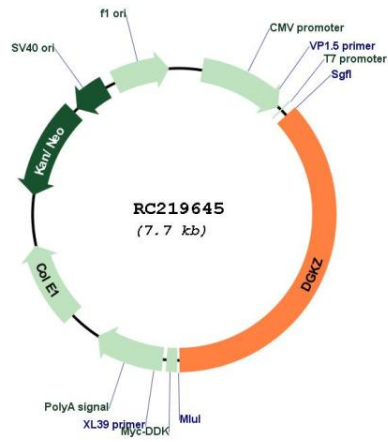


**ACCN:** NM\_201532

**ORF Size:** 2835 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_201532.3</a>
<b>RefSeq Size:</b>	3824 bp
<b>RefSeq ORF:</b>	2838 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>MW:</b>	106 kDa
<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 RC219645