

Product datasheet for **RC216326**

DGKZ (NM_201533) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKZ (NM_201533) 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:

>RC216326 representing NM_201533
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGCACCGGGGCTGGCCACAGTGCCGGGGGAAGCTGCAATGAATCCTCAGCTCTGGGCCAGTGG
 AGGCGCTGGGGACGGAAGAAGGGGAGCGCCGGGGTCACTGAGGCAGATGTGGCGTACCGCTCCTGGGA
 CGTGCCACAGATCCCATCAGAGGCACCCAGACACAGAAAAGCCATCACCAGTTCGGGCTCCAGCACCTG
 GCCCCCCCTCCGCCACCCCTGGGGCCCGTGCAGCGAGTCAGAGCGGCAGATCCGGAGTACAGTGGACT
 GGAGCTCAGCGACATATGGGGAGCACATCTGGTTCGAGACCAACGTGTCCGGGGACTTCTGCTACGTTGG
 GGAGCAGTACTGTGTAGCCAGGATGCTGCAGAAGTCAGTGTCTCGAAGAAAGTGCAGCAGCTGCAAGATT
 GTGGTGCACACGCCCTGCATCGAGCAGCTGGAGAAGATAAATTTCCGCTGTAAGCCGTCTTCCGTGAAT
 CAGGCTCCAGGAATGTCCGCGAGCCAACCTTTGTACGGCACCACTGGGTACACAGACGACGCCAGGACGG
 CAAGTGTCCGACTGTGGGAAGGGATTCCAGCAGAAGTTCACCTTCCACAGCAAGGAGATTGTGGCCATC
 AGCTGCTCGTGGTGAAGCAGGCATACACAGCAAGGTGTCTGCTTTCATGCTGCAGCAGATCGAGGAGC
 CGTGTCTGCTGGGGTCCACGCAGCCGTGGTATCCCCGCCACCTGGATCCTCCGCGCCCGAGGCCCA
 GAATACTCTGAAAGCAAGCAAGAAGAAGAGGGCATCCTTCAAGAGGAAGTCCAGCAAGAAAAGGGCT
 GAGGAGGGCCGCTGGAGACCCCTTTCATCATCAGGCCACCCCTCCCGCTCATGAAGCCCTGCTGGTGT
 TTGTGAACCCCAAGAGTGGGGCAACCAGGGTGCAAAAGATCATCCAGTCTTTCCTCTGGTATCTCAATCC
 CCGACAAGTCTTCGACCTGAGCCAGGGAGGGCCCAAGGAGGCGCTGGAGATGTACCGCAAAGTGCACAAC
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 TGAAGCCGCCACCCCTGTTGCCATCTGCCCTGGGTACTGGCAACGACTTGGCCCGAACCCCTCAACTG
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 GGGACAGTCTTCTGACTTCTGATGGGCAGCTCCAAGGACCTGGCCAAGCACATCCGAGTGGTGTGTG
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 AGCGGCTGACGAGTGTGCGGAGGTGGTGTCTACCACATCCAAGGCCATCCCGGTGCAGGTGGATGGCGA
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 AAGCGGGGAGCGCCGCCCCCTGCACAGCGACCAGCAGCCGGTCCAGAGCAGTTGCGCATCCAGGTGA
 GTCGCGTCAGCATGCACGACTATGAGGCCCTGCACTACGACAAGGAGCAGCTCAAGGAGGCCCTGTGCC
 GCTGGGCACTGTGGTGGTCCCAGGAGACAGTGACTTAGAGCTCTGCCGTGCCACATTGAGAGACTCCAG
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 CTGGCCGCTACCTGGAGAACCAGCAGCACTACCAGATGATCCAGCGGGAGGACCAGGAGACGGCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216326 representing NM_201533
 Red=Cloning site Green=Tags(s)

MSAPGAGHSAGGSCNESSALGPVEALGTEEGERPGLRQMWRYRSWDVQPSEAPQTQKAITKSLQHL
 APPPPTPGAPCSESERQIRSTVDWSSATYGEHIWFETNVSGDFCYVGEQYCVARMLQKSVSRRKCAACKI
 VVHTPCIEQLEKINFRCKPSFRESGSRNVREPTFVRHHVHRRRQDGKCRHCGKGFQQKFTFHSKEIVAI
 SCSWCKQAYHSKVSCFMLQQIEEPCSLGVHAAVVIPPTWILRARRPQNTLKASKKKRASFKRKSSKGGP
 EGRWRPFIIIRPTSPMLKPLL VFNPKSGGNQGAIIQSFLWYLNPRQVFDLSQGGPKEALEMYRKHVN
 LRILACGGDGTGVWILSTLDQLRLKPPPPVAILPLGTGNLARTLNWGGGYTDEPVSKILSHVEEGNVVQ
 LDRWDLHAEPNPEAGPEDRDEGATDRLPLDVFNNYFSLGFDHVTLEFESREANPEKFNSRFRNKM FYA
 GTAFSDFLMGSSKDLAKHIRVVCDGMDLTPKIQDLKPQC VVFLNIPRYCAGTMPWGHGPEHDFEPQRHD
 DGYLEVIGFTMTSLAALQVGGHERLTQCREVLTTSKAIPVQVDGEPCKLAASRIRIALRNQATMVQKA
 KRRSAAPLHSDQQPVPEQLRIQVSRVSMHDYALHYDKEQLKEASVPLGT VVVPGSDLELCRAHIERLQ
 QEPDGAGAKSPTCQKLSPKWCFDATTASRFYRIDRAQEHLN YVTEIAQDEIYILDPELLGASARPDLP
 TSPLPTSPCSPTRSLQDAAPPQGEELIEAAKRND FCKLQELHRAGGDL MHRDEQSRTLLHHA VSTGS
 KDVVRYLLDHAPPEILDAVEENGETCLHQAAALGQRTICHYIVEAGASLMKTDQGDTPRQRAEKAQDTE
 LAAYLENRQHYQMIQREDQETAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

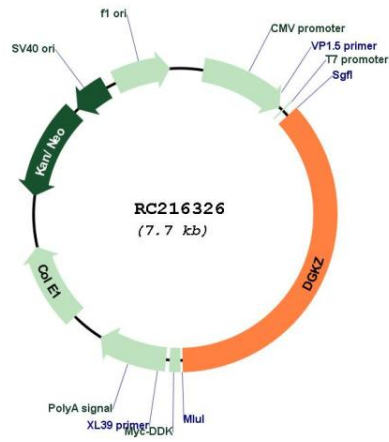


ACCN: NM_201533

ORF Size: 2799 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.
RefSeq:	NM_201533.3 , NP_963291.2
RefSeq Size:	3560 bp
RefSeq ORF:	2802 bp
Locus ID:	8525
UniProt ID:	Q13574
Cytogenetics:	11p11.2
Protein Families:	Druggable Genome
Protein Pathways:	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
MW:	104.3 kDa
Gene Summary:	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 RC216326