

Product datasheet for **RR200972**

Dgkb (NM_019304) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dgkb (NM_019304) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dgkb
Synonyms:	Dagk
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR200972 representing NM_019304
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGACAAACCAGGAAAAATGGGCCATCTCAGCCCTCAGAATTTCCCAACTTCAGAAATATGCTGAGT
ATTCTACAAAGAAATTAAGGATGTTCTTGAAGAATTCATGGTAAATGGTGTGCTTGCAAAGTATAATCC
TGAAGGAAACAAGATATTCTTAACCAAACCATAGATTTTGAAGGATTCAAGCTGTTTCATGAAGACCTTC
CTGGAAGCTGAGCTCCCTGACGATTTCACTGCCACCTTTTCATGTCATTGAGCAACAAATCCCCATT
CCAGCCCCAACGTAAGAGCAAGCCAGCTCTGCTTTCAGGTGGTTTGGAGATGAATAAGGGTGCCATCAC
CCCTCCACGTTCTTCTCCAGCAAATACGTGCTTCCCGAAGTGATCCACCTCAAGGATATTGTCTGTTAC
CTGTCTCTTCTGAAAGAGGAAGACCTGAGGACAAGCTTGAGTTTATGTTTCGCCTGTATGACACCGATG
GGAATGGCTTCTGGACAGCTCGGAATTAGAAAATATCATCGGTCAGATGATGCATGTTGCCGAGTACCT
GGAATGGGATGTTACTGAACTTAATCCGATCCTTCATGAAATGATGGAAGAAATCGACTATGACCGTGAC
GGCACTGTGCTCTGGAAGAGTGGATTCAGGAGGAATGACGACTATCCCACTTCTAGTCTTGCTGGGCT
TGGAAAACAATGTGAAGGATGACGGACAGCATGTGTGGCGACTCAAGCACTTTAAACAAGCCCGCCTACTG
CAATCTCTGCCTGAACATGCTGATTGGCGTGGGGAAGCAGGGCCTCTGCTGCTCCTTCTGCAAGTACACC
GTCCATGAGCGCTGTGCCAGAGCCCCGCCCTCTGCATCAAGACCTATGTGAAGTCCAAGAAGAACAAGT
ACGTCATGACCAATTATGGGTGGAAGCAATTGCCCAACCAAGTGTGATAAGTGCCACAAGACAGTGAA
ATGTTACCAGGGCCTGACGGGGCTGCACTGTGTTGGTGTGACACCAGCTGCACAATAAATGTGCTTCT
CATCTGAAGCCTGAATGTGACTGTGGACCTTGAAGGACCATATTTGCCACCCACCACAATCTGTCCAG
TTGTATTGACTATGCCCACTGCCGGAATTCAGTTCTGAGGAAAGACAGTCAACAGCTAAAAAGGAAAA
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GATGGACAAGGTTTGCAGATCACTCCTATTCTGGCACACATCCTCTTCTAGTTTTTGTCAACCCTAAAA
GTGGTGGGAAGCAAGGAGAACGAATTTACAGAAAATCCAGTATCTTCTAAATCCTCGTCAAGTTTACAG
TCTTTCTGAAAATGGACCAATGCCAGGGTTACATTTTTTTCGCGATGTCCCTGACTTCAGAGTGTAGCA
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AAGAACTGCATGAATCTGTAGAAATAGAATGTGATGGAGTACAGATAGATTTGATAAACATCTCTCTGC
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CACAAGAACCAAGCCCAATGCTGATGGGACCTCCACCTAAAACCTGGATTATTCTGCTCCCTCATCAAAA
GAACAAGAAACCGAAGCAAGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200972 representing NM_019304
 Red=Cloning site Green=Tags(s)

MTNQEKAHLSPSEFSQLQKYAEYSTKKLKDVLLEEFHGNGVLAKYNPEGKQDILNQTIDFEGFKLFMKTFL
 LEAELPDDFTAHLFMSFSNKFPHSSPNVKS KPALLSGGLRMNKGAITPPRSPANTCFPEVIHLKDIVCY
 LSLLEGRPEDKLEFMFRLYDTDGNGLDSSSELENIIGQMMHVAEYLEWDVTELNPILHEMEEIDYDRD
 GTVSLLEWIQGGMTTIPLLVLLGLENNVKDDGQHVWRLKHFNKPAYCNLCLNMLIGVKGQGLCCSFCKYT
 VHERCARAPPSCIKTYVKS KNTDVMHHYWVEGNCPTKCDKCHKTVKCYQGLTGLHCVWCQTTLHNKCAS
 HLKPECDGPKDHILPPTTICPVVLTMPAGTSVPEERQSTAKKEKGS SQPNKVTDNKMQRANSVTM
 DGQGLQITPIPGTHPLL VFNPKSGGKQGERIYRKFQYLLNPRQVYSLSGNGPMPGLHFFRDVPDFRVL
 CGGDGTGVWILDCEKANVVKHPPVAILPLGTGNDLARCLRWGGGYEENLMKILKDIESSTEIMLDRWK
 FEVTPNDKDEKGPVPYSIINNYFSIGVDASIAHRFHIMREKHPEKFNSRMKNKFWYFEGTSETFSATC
 KKLHESVEIECDGVQIDLINISLQGIAILNIPSMHGGSNLWGESKKKRSHRRIEKKGSDKRPTLDAKEL
 KFASQDLSQDLEVVGLGEMEMGQIYTGLKSAGRRLAQCSSVIRT SKSLPMQIDGEPWMQTPCTIKIT
 HKNQAPMLMGPPPKTGLFCSLIKRTRNRSKE

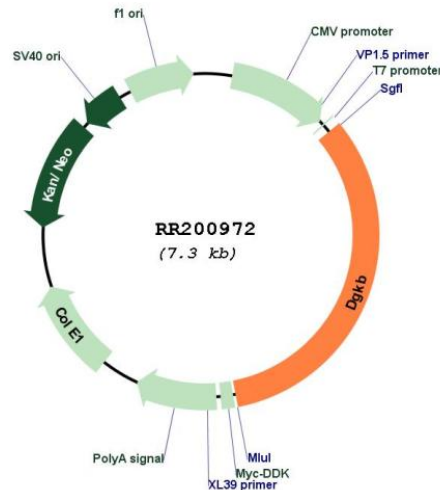
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_019304

ORF Size: 2403 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_019304.1](#), [NP_062177.1](#)

RefSeq Size: 6211 bp

RefSeq ORF: 2406 bp

Locus ID: 54248

UniProt ID: [P49621](#)

Cytogenetics: 6q21

MW: 90.3 kDa

Gene Summary: beta isotype of the diacylglycerol kinase family, regulates intracellular concentrations of the second messenger diacylglycerol (DAG) [RGD, Feb 2006]