

## Product datasheet for **MR210702**

### **Dgkb (NM\_178681) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                               |
| Product Name:             | Dgkb (NM_178681) Mouse Tagged ORF Clone                           |
| Tag:                      | Myc-DDK                                                           |
| Symbol:                   | Dgkb                                                              |
| Synonyms:                 | 90kda; 6430574F24; C630029D13Rik; DAGK2; DGK; DGK-beta; mKIAA0718 |
| Mammalian Cell Selection: | Neomycin                                                          |
| Vector:                   | pCMV6-Entry (PS100001)                                            |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                              |



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ORF Nucleotide  
Sequence:

>MR210702 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGACAAACCAGGAAAAATGGGCCATCTCAGCCCTCAGAATTTCCCAACTTCAGAAATATGCTGAGT  
ATTCTACAAAGAAATTAAGGATGTTCTTGAAGAATTCATGGTAAATGGCGTGCTTGCAAAGTATAATCC  
TGAAGGGACCATAGATTTTGAAGGCTTCAAGCTATTTCATGAAGACCTTTCTGGAAGCTGAGCTGCCTGAC  
GATTTACCGCCACCTTTTATGTCATTAGCAACAATTTCCCACTTAGCCCAATGTAAAGAGTA  
AGCCCGCTCTTCTTTCAGGTGGTCTCAGGATGAATAAGGGTGCCATCACCCCTCCACGTTCTCTCCAGC  
AAATACATGCTCCCAGAAGTATCCACCTCAAGGATATCGTCTGCTACCTGTCTCTTCTCGAAAGAGGA  
AGACCCGAGGATAAGCTCGAGTTTATGTTTCGCCTTTATGACACCGATGGGAATGGCTTCTGGACAGCT  
CGGAATTAGAAAAATTATTGGTCAGATGATGCACGTGGCAGAGTACCTCGAATGGGATGTTACCGAACT  
TAATCCGATCCTTCATGAAATGATGGAAGAAATGACTATGACCCGGATGGCACTGTGTCTCTGGAGGAG  
TGGATTCAAGGAGGAATGACAACATCCCACTTCTAGTCCTGCTGGGCTTGGAGAATAATGTGAAGGATG  
ATGGACAGCATGTGTGGCGACTCAAGCACTTTAACAAGCCTGCCTACTGCAATCTCTGCCTGAACATGCT  
GATTGGCGTGGGAAGCAGGGCCTCTGCTGCTCCTTCTGCAAGTACACGGTCCATGAGCGCTGTGTGGCC  
AGAGCCCCGCCCTCTGCATCAAGACATATGTGAAGTCCAAGAAAAACACAGACGTCATGCACCACTATT  
GGGTCGAAGGCAATTGCCAACCAAGTGCAGATAAGTGCCACAAAACAGTAAATGTTACCAGGGCCTGAC  
GGGCTGCATTGTGTTGGTGCCAGACCACACTGCACAATAAATGTGCTTCTCATCTGAAGCCGAGTGT  
GACTGTGGACCCTTGAAGGACCATTTTGGCACCTACCACAATCTGTCCAGTTGATTGACTATGCCCA  
GTGCTGGAGCCTCAGTTCTGAGGAAAGACAGTCCACAGCTAAAAAGAAAAGAGCAGCTCCAGCAGC  
AAATAAAGCAACAGACAAAAATAAAATGCAAAGAGCTAACTCAGTTACTATGGATGGACAAGGTTTGCAG  
ATCACTCCTGTTCTGGCACACATCCGCTTCTAGTTTTTGTCAACCCTAAAAGTGGTGGGAAGCAAGGAG  
AACGAATTTACAGAAAATCCAGTATCTCCTAAATCCTCGTCAGGTTTACAGTCTTTCTGGAAATGGACC  
AATGCCAGGGTTACACTTTTTTCGCGATGTCCCTGACTTCAGAGTGTAGCATGCGGTGGAGATGGGACT  
GTGGGCTGGATTTGGATTGCATAGAGAAGCCAAATGTAGTCAAGCACCCCTCCAGTTGCCATCCTGCCTC  
TTGGGACTGGCAATGACTTAGCAAGGTGCCTGCGGTGGGGTGGAGGTTATGAAGGGGAAATCTTATGAA  
GATCCTAAAAGACATTGAAAGCAGCACAGAAATCATGCTGGACAGGTGGAAGTTTGAAGTACACCCAAC  
GACAAAGATGAGAAAGGAGACCCTGTGCCTTACAGCATCATCAATAACTACTTTTCCATTGGCGTGGATG  
CCTCCATTGCACACAGATTCCACATCATGAGAGAAAAGCACCCAGAGAAATCAACAGCCGAATGAAGAA  
CAAATTTTGGTACTTTGAGTTTGGCACATCTGAAACCTTCTCAGCGACCTGCAAGAGCTGCATGAATCT  
GTAGAAATAGAATGTGATGGAGTACAAATAGATTTGATAAACATCTCTCTGGAAGGAATTGCAATTTTGA  
ATATACCAAGCATGCATGGAGGATCTAATCTTTGGGGAGAGTCTAAAAAGAAAAGGCCATCGACGAAT  
AGAGAAAAAAGGCTCTGACAAAAGACCCACTCTCACAGATGCAAAAAGAGCTGAAGTTTGAAGTCAAGAT  
CTGAGTGACCAGCTGCTGGAGGTCGTTGGCTTGGAAAGGAGCAATGGAAATGGGCCAAATTTACACGGGCC  
TGAAAAGTGCGGGCCGGCGGCTGGCTCAGTCTCCTCTGTGTTATCAGAACAAGCAAGTCACTGCCAAT  
GCAGATTGATGGAGAGCCCTGGATGCAGACCCCATGCACAATAAAAATTACACACAAGAACCAAGCCCCA  
ATGCTGATGGGCCCTCCACCCAAAACCTGGATTATTCTGCTCACTTATCAAAGAACAAGAAACCGAAGCA  
AGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR210702 protein sequence  
 Red=Cloning site Green=Tags(s)

MTNQEKAHLSPSEFSQLQKYAEYSTKKLKDVLLEEFHGNGVLAKYNPEGTIDFEGFKLFMKTFLAEELPD  
 DFTAHLFMSFSNKFPHSSPNVKS KPALLSGGLRMNKGAI T PPRSSPANTCSPEVIHLKDIVCYLSLLER  
 RPEDKLEFMFRLYDTDGNGFLDSELENIIGQMMHVAEYLEWDVTELNPI LHEMMEEIDYDRDGTVSLEE  
 WIQGGMTTIPLLVLLGLENNVKDDGQHVWRLKHFNKPAYCNLCLNMLIGVGKQGLCCSFCKYTVHERCVA  
 RAPPSCIKTYVKSKKNTDVMHHYWVEGNCPTKCDKCHKTVKCYQGLTGLHCVWCQTTLHNKCASHLKPEC  
 DCGPLKDHILPPTTICPVVLTMP SAGASVPEERQSTAKKEKSSSQPNKATDKNKMQRANSVTMDGQGLQ  
 ITPVPGTHPLL VFNPKSGGKQGERIYRKFQYLLNPRQVYSLSGNGPMPGLHFFRDVPDFRVLACGGDGT  
 VGWILDCEKANYVKHPPVAILPLGTGNDLARCLRWGGGYEGENLMKILKDIESSTEIMLDRWKFEVTPN  
 DKDEKGDVPVYSIINNYFSIGVDASIAHRFHIMREKHPEKFNSRMKNKFWYFEGTSETFSATCKKLHES  
 VEIECDGVQIDLINISLEGIAILNIPSMHGGSNLWGESKKKRSHRRIEKKGSDKRPTLTDAKELK FASQD  
 LSDQLLEVVGLEGAMEMGQIYTGLKSAGRRLAQCSSVIRT SKSLPMQIDGEPWMQTPTIKITHKNQAP  
 MLMGPPPKTGLFCSLIKRTRNRSKE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_178681

ORF Size: 2388 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\\_178681.5](#)

**RefSeq Size:** 5544 bp

**RefSeq ORF:** 2388 bp

**Locus ID:** 217480

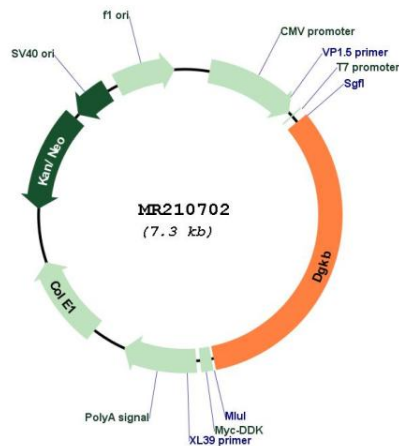
**UniProt ID:** [Q6NS52](#)

**Cytogenetics:** 12 A3

**MW:** 89.4 kDa

**Gene Summary:** Exhibits high phosphorylation activity for long-chain diacylglycerols.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR210702