

## Product datasheet for **MR211219**

### **Dgkz (NM\_138306) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dgkz (NM_138306) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dgkz
Synonyms:	E130307B02Rik; ENSMUSG00000075035; F730209L11Rik; mDGK[z]
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR211219 representing NM\_138306  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGAGCCGCGGGACCCAGCCCCGAGGGCCGGAGCAGCGACTCGGAGTCGGCCTCCGCCTCGTCCAGCG  
 GCTCCGAGCGCGACGCGGGTCCGAGCCGACAAGGCGCCGGCGCCTGACCAAGCGGGCCTTCCCGGG  
 GCTGCGGCTCTTTGGGCACAGGAAAGCCATCACCAAGTCGGGCCTCCAGCACCTGGCACCCCTCTCC  
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 CAATGCATTAAGCAGCTGAAAAAGATCAATTTCCGCTGTAAAGCCGTCCTCCGCGAATCAGGCTCCAGGA  
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 TGCAAACAGGCATACCACAGCAAGGTGTGCTGCTTCATGATGCAACAGATTGAGGAACCCCTGCTCCCTAG  
 GGGTGCATGCAGCCGTGGTTCATCCACCCACCTGGATCCTGCGGGCCCGAGGCCCCAGAACACCCTCAA  
 GGCCAGCAAGAAGAAAAAGAGAGCGTCTTCAAGAGGAGGTCCAGCAAGAAAGGACCTGAGGAAGGCCGC  
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 ACTGCCCACTGCACAGCGACCAGCAGCCAGTTCCTGAGCAGCTGAGGATCCAGGTGAGCAGGGTACGTA  
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 GGTGGTCCCCGGAGACAGTACCTGGAGCTTCCCGCGCCACATTGAGAGACTGCAGCGGGAGCCCGAT  
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 ACCAGGACGGCCCTGGGTGAGCGACCATCTGCCACTACATTGTGGAAGCCGGGGCTCCCTCATGAA  
 GACAGATCTGAGGGGACACTCCCGGACGCGCTGAGAAGGCTCAAGACACAGAGCTCGCTGCCTAC  
 CTGGAGAACAGACAGCATTACCAGATGATCCAGCGTGAGGACCAGGAGACAGCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATTAAGTTTAA

Protein Sequence: >MR211219 representing NM\_138306  
 Red=Cloning site Green=Tags(s)

MEPRDPSPEGRSSDSESASASSGSRDAGPEPDKAPRRLTKRRFPGLRFLGHRKAITKSLGHLAPPPP  
 TPGAPCGESEEQIQSTVDWSESAVYGEHIWFETNVSGDFCYVGEQHCVAKMLPKSAPRKKCAACKIVVHT  
 QCIKQLEKINFRCKPSFRESGSRNVREPTFVRHHWVHRRRQDGKCRHCGKGFQQKFTFHSKEIVAISCSW  
 CKQAYHSKVSCFMMQIEEPCSLGVHAAVVIPPTWILRARRPQNTLKASKKKKRASFRRSSSKKGPPEGR  
 WRPFIIRPTPSPLMKPLLVFVNPKSGGNQGAIIQSFLWYLNPRQVFDLSQGGPREALEMYRKVHNLRIIL  
 ACGGDGTVGWILSTLDQLRLKPPPPVAIPLGTGNDLARTLNWGGGYTDEPVSKILSHVEEGNVVQLDRW  
 DLRAEPNPEAGPEERDDGATDRLPLDVFNNYFSLGFDAHVTLFESREANPEKFNFRNKMFMFYAGTAF  
 SDFLMGSSKDLAKHIRVVCMDLTPKIQDLKPQCIVFLNIPRYCAGTMPWGHGPEHDFEPQRHDDGYL  
 EVIGFTMTSLAALQVGGHGERLTQCREVLLTTAKAIPVQVDGEPCKLSASRIIRIALRNQATMVQKAKRRS  
 TAPLHSDQPVPQQLRIQVSRVSMHDYEALHYDKEQLKEASVPLGTVVVPGSDLELCRAHIERLQREPD  
 GAGAKSPMCHQLSSKWCFLDATTASRFYRIDRAQEHLYNVTIEAQDEIYILDPELLGASARPDLPPTSP  
 LPASPCSPPTGSMQGDALPQGEELIEAAKRNDCCKLQELHRAGGDLMHRDQKSRITLLHHAIVSTGSKEVV  
 RYLLDHAPPEILDAVEENGETCLHQAALGQRTICHYIVEAGASLMKTDLQGDTPRQRAEKAQDTELAAY  
 LENRQHYQMIQREDQETAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

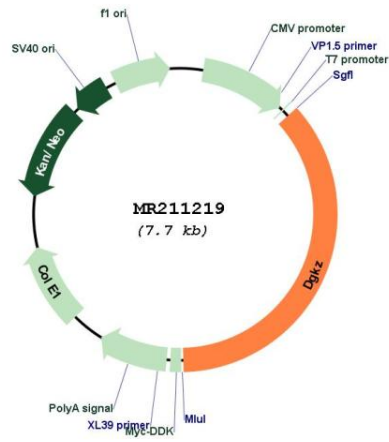


ACCN: NM\_138306

ORF Size: 2787 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_138306.2</a> , <a href="#">NP_612179.2</a>
<b>RefSeq Size:</b>	3499 bp
<b>RefSeq ORF:</b>	2790 bp
<b>Locus ID:</b>	104418
<b>UniProt ID:</b>	<a href="#">Q80UP3</a>
<b>Cytogenetics:</b>	2 E1
<b>MW:</b>	104.5 kDa
<b>Gene Summary:</b>	Displays a strong preference for 1,2-diacylglycerols over 1,3-diacylglycerols, but lacks substrate specificity among molecular species of long chain diacylglycerols. Regulates RASGRP1 activity (By similarity). Positively regulates insulin-induced translocation of SLC2A4 to the cell membrane in adipocytes. Activates PIP5K1A activity via generation of phosphatidic acid (PubMed:27739494).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211219