

Product datasheet for **MG211219**

Dgkz (NM_138306) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dgkz (NM_138306) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dgkz
Synonyms:	E130307B02Rik; ENSMUSG00000075035; F730209L11Rik; mDGK[z]
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG211219 representing NM_138306
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCCGGGACCCAGCCCGAGGGCCGGAGCAGCGACTCGGAGTCGGCCTCCGCCTCGTCCAGCG
 GCTCCGAGCGCGACGCGGGTCCGGAGCCGACAAGGCGCCGGCGCCTGACCAAGCGGGCCTTCCCGGG
 GCTGCGGCTCTTTGGGCACAGGAAAGCCATCACCAAGTCGGGCCTCCAGCACCTGGCACCCCTCTCC
 ACGCCCGGGGCCCGTGCGGTGAATCTGAGGAGCAGATCCAGAGCACTGTGGACTGGAGTGAGTCAGCAG
 TGTATGGGAGCAGACATCTGGTTTGGACCAACGTGTCCGGTACTTCTGCTATGTCGGGGAGCAGCACTG
 TGTAGCTAAGATGCTGCCAAGTCAGCGCCAGAAAAAGTGTGCAGCCTGTAAGATCGTGGTGCATACC
 CAATGCATTAAGCAGCTGAAAAAGATCAATTTCCGCTGTAAAGCCGTCCTCCGCGAATCAGGCTCCAGGA
 ATGTCCGTGAGCCAACCTTCGTAAGACACCACTGGGTCCACAGACGACGCCAGGATGGCAAGTGTGGCA
 CTGTGGGAAGGGCTTCCAGCAGAAGTTCACCTTCCACAGCAAGGAGATCGTAGCCATCAGCTGCTCTGG
 TGCAAACAGGCATACCACAGCAAGGTGTGCTGCTTCATGATGCAACAGATTGAGGAACCCCTGCTCCCTAG
 GGGTGCATGCAGCCGTGGTTCATCCACCCACCTGGATCCTGCGGGCCCGAGGCCCCAGAACACCCTCAA
 GGCCAGCAAGAAGAAAAAGAGAGCGTCTTCAAGAGGAGGTCCAGCAAGAAAGGACCTGAGGAAGGCCGC
 TGGAGACCCTTCATCATCAGACCACCCATCCCCCTCATGAAACCCCTGCTGGTGTGTTGTGAACCCCA
 AGAGTGGGGCAACCAGGGTGCCAAGATCATCCAGTCTTTTTGTGGTATCTGAATCCCCGACAAGTCTT
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 GCTTGGGGGGTATGGCAGGTTGGCTGGATTCTCCACCCTGGACCAGCTGCGCTTAAAACCCCGC
 CTCCTGTAGCCATCCTGCCTCTGGCAGTGGCAATGACCTGGCCGAACCCCTCAACTGGGGTGGGGTTA
 CACAGATGAGCCTGTGTCAAAGATCCTTTCCCATGTTGAGGAGGGGAATGTGGTACAGCTGGACCCTTGG
 GACCTCCGAGCAGAGCCCAACCTGAGGCGGGCCTGAGGAGCGAGATGATGGAGCCACTGACCGCTGC
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 TCGAGAAGCCAACCCAGAGAAGTTCAACAGCCGCTTTCGGAATAAGATGTTCTATGCTGGGACGGCCTTC
 TCTGACTTCTGATGGGAGCTCCAAGGACTTAGCCAAGCACATCCGAGTAGTGTGTGACGGATGGACC
 TAACCCCAAGATTGAGGACTGAAACCGCAGTGCATCGTCTTTCTGAATATCCCCAGGACTGTGCAGG
 CACCATGCCCTGGGGCCACCCGGGAGCACCATGACTTCGAGCCCGAGGCGATGATGATGGCTACCTG
 GAGGTGATCGGCTTACCATGACATCCTTGGCAGCACTGCAGGTGGTGGGCACGGCGAGCGATTGACGC
 AGTGCCGAGAAGTGTGCTCACCCTGCAAGGCCATCCCTGTGAGGTGGACGGTGGAGCCTGCAAGCT
 TTCAGCATCACGATTGCAATTGCCCTGCGCAACCCAGGCCACTATGGTGCAGAAGGCCAAGCGCCGGAGT
 ACTGCCCACTGCACAGCGACCAGCAGCCAGTTCCTGAGCAGCTGAGGATCCAGGTGAGCAGGGTTCAGTA
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 GGTGGTCCCCGGAGACAGTACCTGGAGCTTCCCGCGCCACATTGAGAGACTGCAGCGGGAGCCCGAT
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 CCAGCCGCTTCTACAGGATCGACAGAGCCAGGAGCACCCTCAACTATGTGACGGAGATTGCCAGGACGA
 GATTTACATCCTAGACCCAGAGTCTTGGGAGCATCAGCCGGCCTGACCTCCCCACCCCTACCTCCCCA
 CTCCTGTCTCCCTGCTCCCTACACCCGGTCAATGCAGGGGGACACTGCACTGCCCAAGGTGAAG
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 ACCAGGACGGCCCTGGGTGAGCGACCATCTGCCACTACATTGTGGAAGCCGGGGCTCCCTCATGAA
 GACAGATCTGAGGGGACACTCCCGGACGCGCTGAGAAGGCTCAAGACACAGAGCTCGCTGCCTAC
 CTGGAGAACAGACAGCATTACCAGATGATCCAGCGTGAGGACCAGGAGACAGCTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211219 representing NM_138306
 Red=Cloning site Green=Tags(s)

MEPRDPSPEGRSSDSESASASSGSRDAGPEPDKAPRRLTKRRFPLRLFGHRKAITKSLQLHAPPPP
 TPGAPCGESEEQIQSTVDWSESAVYGEHIWFETNVSGDFCYVGEQHCVAKMLPKSAPRKKCAACKIVVHT
 QCIKQLEKINFRCKPSFRESGSRNVREPTFVRHHWVHRRRQDGKCRHCGKGFQQKFTFHSKEIVAI
 SCSCWCKQAYHSKVSCFMMQIEEPCSLGVHAAVVIPPTWILRARRPQNTLKASKKKKRAF
 SKRRSSKKGPEEGRWRPFIIRPTPSPLMKPLLVFVNPKSGGNQGAIIQSFLWYLNPRQVFDL
 SQGGPREALEMYRKVHNLRLILACGGDGTVGWILSTLDQLRLKPPPVAILPLGTGNDLARTLNWGGGYT
 DEPVSILSHVEEGNVVQLDRWDLRAEPNPEAGPEERDDGATDRLPLDVFNNYSLGFD
 AHVTLEFHESREANPEKFNFRNKMFYAGTAFSDFLMGSSKDLAKHIRVVC
 GMDLTPKIQDLKPQCIVFLNIPRYCAGTMPWGHGPEHDFEPQRHDDGYL
 EVIGFTMTSLAALQVGGHGERLTQCREVLLTTAKAIPVQVDGEPCKLSASRI
 RIALRNQATMVQKAKRRSTAPLHSDQQPVPEQLRIQVSRVSMHDYEALHYDKEQL
 KEASVPLGTVVVPGSDLELCRAHIERLQREPDGAGAKSPMCHQLSSKWCFL
 DATASRFYRIDRAQEHLNYVTEIAQDEIYILDPELLGASARPDLPPTSP
 LPASPCSPTPGSMQGDALPQGEELIEAAKRNDCCKLQELHRAGGDL
 MHRDQKSRITLLHHAIVSTGSKEVRYLLDHAPPEILDAVEENGETCL
 HQAAALGQRTICHYIVEAGASLMKTDLQGDTPRQRAEKAQDTELAAY
 LENRQHYQMIQREDQETAV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

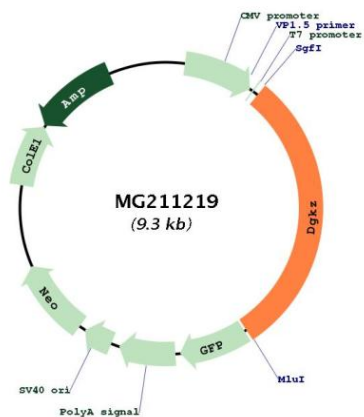
Cloning Scheme:



ACCN: NM_138306

ORF Size:	2787 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_138306.2 , NP_612179.2
RefSeq Size:	3499 bp
RefSeq ORF:	2790 bp
Locus ID:	104418
UniProt ID:	Q80UP3
Cytogenetics:	2 E1
Gene Summary:	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 MG211219