

## Product datasheet for **MC222703**

### **Dgkz (NM\_138306) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dgkz (NM_138306) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF:

>MC222703 representing NM\_138306  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGAGCCGCGGGACCCAGCCCCGAGGGCCGGAGCAGCGACTCGGAGTCGGCCTCCGCCTCGTCCAGCG  
 GCTCCGAGCGCGACGCGGGTCCGAGCCCGACAAGGCGCCGCGGCGCTGACCAAGCGGCGCTTCCCGGG  
 GCTGCGGCTCTTTGGGCACAGGAAAGCCATCACCAAGTCGGGCCTCCAGCACCTGGCACCCCTCTCC  
 ACGCCCGGGGCCCGTGCAGTGAATCTGAGGAGCAGATCCAGAGCACTGTGGACTGGAGTGAGTCAGCAG  
 TGTATGGGAGCAGACATCTGGTTTGGACCAACGTGTCCGGTACTTCTGCTATGTCGGGAGCAGCACTG  
 TGTAGCTAAGATGCTGCCAAGTCAGCGCCAGAAAAAGTGTGCAGCCTGTAAGATCGTGGTGCATACC  
 CAATGCATTAAGCAGCTGAAAAAGATCAATTTCCGCTGTAAAGCCGTCCTCCGGAATCAGGCTCCAGGA  
 ATGTCCGTGAGCCAACCTTCGTAAGACACCACTGGGTCCACAGACGACGCCAGGATGGCAAGTGTGGCA  
 CTGTGGGAAGGGCTTCCAGCAGAAGTTCACCTTCCACAGCAAGGAGATCGTAGCCATCAGCTGCTCTGG  
 TGCAAACAGGCATACCACAGCAAGGTGTGTGCTTCATGATGCAACAGATTGAGGAACCCCTGCTCCCTAG  
 GGGTGCATGCAGCCGTGGTTCATCCACCCACCTGGATCCTGCGGGCCCGAGGCCCCAGAACACCCTCAA  
 GGCCAGCAAGAAGAAAAAGAGAGCGTCTTCAAGAGGAGGTCCAGCAAGAAAGGACCTGAGGAAGGCCGC  
 TGGAGACCCTTCATCATCAGACCACCCATCCCCCTCATGAAACCCTGCTGGTGTGTTGTGAACCCCA  
 AGAGTGGGGCAACCAGGGTGCCAAGATCATCCAGTCTTTTTGTGGTATCTGAATCCCCGACAAGTCTT  
 TGATCTGAGCCAGGGAGGACCCAGGAAGCGTGGAAATGTACCGCAAAGTACATAATTTGAGGATCTG  
 GCTTGGGGGTGATGGCAGGTTGGCTGGATTCTCCACCTGGACCAGCTGCGCTTAAACCACCCG  
 CTCTGTAGCCATCTGCCTCTGGCAGTGGCAATGACCTGGCCGAACCCTCACTGGGGTGGGGTTA  
 CACAGATGAGCCTGTGTCAAAGATCCTTTCCCATGTTGAGGAGGGGAATGTGGTACAGCTGGACCGTTGG  
 GACCTCCGAGCAGAGCCCAACCCTGAGGCGGGCCTGAGGAGCGAGATGATGGAGCCACTGACCGCTGC  
 CCCTGGATGTCTTAACTACTTTCAGCCTGGGCTTCGATGCCACGTACCCTGGAATTCATGAGTC  
 TCGAGAAGCAACCAGAGAAGTTCAACAGCCGCTTTCGGAATAAGATGTTCTATGCTGGGACGGCTTC  
 TCTGACTTCTGATGGCAGCTCCAAGGACTTAGCCAAGCACATCCGAGTGTGTGACGGAATGGACC  
 TAACCCCAAGATTCAGGACCTGAAACCGCAGTGCATCGTCTTTCTGAATATCCCGAGTACTGTGCAGG  
 CACCATGCCCTGGGGCCACCCGGGAGCACCATGACTTCGAGCCCGAGGCGATGATGATGGCTACCTG  
 GAGGTGATCGGCTTACCATGACATCCTTGGCAGCACTGCAGGTGGTGGCAGCGCGAGCGATTGACGC  
 AGTGCCGAGAAGTGTGCTCACCCTGCCAAGGCCATCCCTGTGAGGTGGACGGTGGAGCCTGCAAGCT  
 TTCAGCATCAGGATTCGAATTGCCCTGCGCAACCAGGCCACTATGGTGCAGAAGGCCAAGCGCCGAGT  
 ACTGCCCACTGCACAGCGACCAGCAGCCAGTTCCTGAGCAGCTGAGGATCCAGGTGAGCAGGGTACGTA  
 TGCAGCACTACGAGGCTCTACATTATGACAAGGAGCAGCTCAAGGAAGCCTCTGTGCCTCTGGGCACTGT  
 GGTGGTCCCCGGAGACAGTACCTGGAGCTTCCCGCGCCACATTGAGAGACTGCAGCGGGAGCCCGAT  
 GGGGCTGGAGCCAAGTCCCGATGTGCCACCACTCTCCTCAAGTGGTGTTCCTGGATGCCACCCTG  
 CCAGCCGCTTCTACAGGATCGACAGAGCCAGGAGCACCCTCAACTATGTGACGGAGATTGCCAGGACGA  
 GATTTACATCTAGACCCAGAGTCTTGGGAGCATCAGCCCGGCTGACCTCCCCACCCCTACCTCCCCA  
 CTCCTGTCTCCCTGCTCCCTACACCCGGTCAATGCAGGGGACACTGCACTGCCCAAGGTGAAG  
 AACTGATTGAAGCAGCAAGAGGAATGACTGCTGCAAGCTCCAGGAGCTACACCGAGCAGGAGGTGACCT  
 CATGCACCGTGACCAGAAGAGCCGACGCTCTTGCACCACGCGGTGAGCACTGGCAGTAAGGAAGTGGTC  
 CGTATCTGCTGGATCATGCACCTCCAGAGATCCTTGATGCTGTGGAGGAGAATGGGAGACCTGTCTAC  
 ACCAGGACGCGCCCTGGGTGAGCGACCATCTGCCACTACATTGTGGAAGCCGGGGCTCCCTCATGAA  
 GACAGATCTGAGGGGACACTCCCGGACGCGCTGAGAAGGCTCAAGACACAGAGCTCGCTGCCTAC  
 CTGGAGAACAGACAGCATTACCAGATGATCCAGCGTGAGGACCAGGAGACAGCTGTG**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

<b>ACCN:</b>	NM_138306
<b>Insert Size:</b>	2790 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) has an alternate 5' sequence, as compared to variant 1. The resulting isoform (2) is shorter and has a distinct N-terminus, as compared to isoform 1.</p>