

Product datasheet for MC223658

Dgkz (NM_001166597) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dgkz (NM_001166597) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dgkz
Synonyms:	E130307B02Rik; ENSMUSG00000075035; F730209L11Rik; mDGK[z]
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223658 representing NM_001166597 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACCTTCTTTAGGAAGCATTTCACGAAAGGCACGAGGTCCCGGAGAGAGGCAGCGGGTCCA
GTGGCGTGGGGCTGCCCACAGGCAAGGCTCGACCGCTCCCTGCAGGGCAGGCGTCTCTTCACTGGC
CCAGAGGGCCGCTCCAGTGCACAGCTCCAGGGCTGTTTTCCAGCTGCGGGTGGGCACGAGAGGTGCC
AGCCGCAGGCGATCCAGCACTGCACCCCTACCTGCAATCCCGCTTCATGGTGGATGTGGTGCCTACCC
TACAGCCTGTACAGTTGGGGCCAGCTTCTGGGTGCACCCCTGCTGTTGGCTGGGCTCACAAAGCATGAA
GGAGGAAGAGGAGGAGGAAGGGTCCAGGAGGGAATGAGACAGCTGAGGCGACAAGTGTAGTGGCCCA
GGTACCCGGACAACGCCCTTCTCACACAGGGCACCTGGCCACTGCTTCCCATGCCCCGCTGCTGCGTC
GAGCCTCTCCACCTGCTCCCTGCTGATGTGGAGTGTGGCCATACCCCTTGGGGCTGCATGGTCACTA
TCGACGCTCAGCCAGCGGTGGCCCTCAGGCCAGCACCTGGTCTTGGGGCCGAAGCCCAAGAGCCTCG
GGCGTGCAGCATGCCCCATGATACCGGCCGTGTGCGCCACTGTCTCGCAGACGCCAGGTAGCTCTAA
GGCGGAAGTCAGCTGGACCCAGCCCTGGAGCACCTGCTTATGAAAGCCATACCAAGTCGGGCTCCA
GCACCTGGCACCCCTCTCCACGCCCCGGGGCCCGTGCAGTGAATCTGAGGAGCAGATCCAGAGCACT
GTGGACTGGAGTGAAGTCAAGTGTATGGGAGCACATCTGGTTTGGAGCAACGTGTCCGGTGACTTCT
GCTATGTCGGGGAGCAGCACTGTGTAGCTAAGATGCTGCCGAAGTCAAGCAGCGCCAGAAAAAGTGTGAGC
CTGTAAGATCGTGGTGCATACCCAATGCATTAAGCAGCTGGAAAAGATCAATTTCCGCTGTAAGCCGTCC
TTCCGCAATCAGGCTCCAGGAATGTCGGTGAAGCAACCTTCGTAAGACACCACTGGGTCCACAGACGAC
GCCAGGATGGCAAGTGTGCGCACTGTGGGAAGGGCTTCCAGCAGAAGTTCACCTTCCACAGCAAGGAGAT
CGTAGCCATCAGCTGCTCCTGGTCAAACAGGCATACCACAGCAAGGTGTCGTGCTTCATGATGCAACAG
ATTGAGGAACCTGCTCCCTAGGGTGCATGCAGCCGTGGTTCATCCACCCACCTGGATCCTGCGGGCCC
GGAGGCCCCAGAACCCCTCAAGGCCAGCAAGAAGAAAAAGAGAGCGTCTTCAAGAGGAGGTCCAGCAA
GAAAGGACCTGAGGAAGGCCGCTGGAGACCCCTTATCATCAGACCCACCCATCCCCCTCATGAAACCC
CTGCTGTTGTTGTAACCCCAAGAGTGGGGCAACCAGGGTGCACAGATCATCCAGTCTTTTTTGTGGT



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ATCTGAATCCCCGACAAGTCTTTGATCTGAGCCAGGGAGGACCCAGGGAAGCGCTGGAAATGTACCGCAA
 AGTACATAATTTGAGGATTCTGGCTTGC GG GGTGATGGCACGGTTGGCTGGATTCTCTCCACCCTGGAC
 CAGCTGCGCTTAAACCACCGCTCCTGTAGCCATCTGCCTCTGGGCACTGGCAATGACCTGGCCGAA
 CCCTCACTGGGTGGGGTTACACAGATGAGCCTGTGTCAAAGATCCTTTCCATGTTGAGGAGGGAA
 TGTGGTACAGCTGGACCGTTGGGACCTCCGAGCAGAGCCCAACCTGAGGCGGGCCTGAGGAGCGAGAT
 GATGGAGCCACTGACCGGCTGCCCTGGATGTCTTTAACTACTTCAGCCTGGGCTTCGATGCCACG
 TCACCTGGAAATTCATGAGTCTGAGAAGCCAACCCAGAGAAGTTCAACAGCCGCTTTCGGAATAAGAT
 GTTCTATGCTGGGACGGCCTTCTGACTTCTGATGGGACGCTCAAGGACTTAGCCAAGCACATCCGA
 GTAGTGTGTGACGGAATGGACCTAACCCCAAGATTACAGGACCTGAAACCGCAGTGCATCGTCTTTCTGA
 ATATCCCCAGGTACTGTGCAGGCACCATGCCCTGGGGCCACCCGGGAGCACCATGACTTCGAGCCCCA
 GAGGCATGATGATGGCTACCTGGAGTTCATCGGCTTACCATGACATCCTTGGCAGCACTGCAGGTGGT
 GGGCACGGCAGCGATTGACGCAGTCCGAGAAGTGTGCTCACCCTGCCAAGGCCATCCCTGTGCAGG
 TGGACGGTGAACCTTCAAGCTTTCAGCATCACGGATTGCAATTGCCCTGCGCAACCAGGCCACTATGGT
 GCAGAAGGCCAAGCGCCGAGTACTGCCCACTGCACAGCGACCAGCAGCCAGTTCCTGAGCAGCTGAGG
 ATCCAGGTGAGCAGGGTCAATGCACGACTACGAGGCTTACATTATGACAAGGAGCAGCTCAAGGAAG
 CCTCTGTGCTCTGGGCACTGTGGTGGTCCCGGAGACAGTACCTGGAGCTCTGCCGCGCCACATTGA
 GAGACTGCAGCGGAGCCGATGGGGCTGGAGCCAAGTCCCGATGTGCCACCACTCTCTCCAAGTGG
 TGTTCCTGGATGCCACCACTGCCAGCCGCTTCTACAGGATCGACAGAGCCAGGAGCACCTCAACTATG
 TGACGGAGATTGCCAGGACGAGATTTACATCCTAGACCAGAGCTTCTGGGAGCATCAGCCCGGCTGA
 CCTCCCCACCCCTACCTCCCACTCCCTGCTTCCCCTGCTCCCCTACACCCGGGTCAATGCAGGGGAC
 ACTGCACTGCCCAAGGTGAAGAAGTGAAGCAAGAGGAATGACTGCTGCAAGCTCCAGGAGC
 TACACCGAGCAGGAGTACCTCATGCACCGTACCAGAAGAGCCGACGCTCTTGCACCACGCGTCCAG
 CACTGGCAGTAAGGAAGTGGTCCGCTATCTGCTGGATCATGCACCTCCAGAGATCCTTGTGCTGGAG
 GAGAAATGGGAGACCTGTCTACACAGGACGCCGCTGGGTGAGCGCACCATCTGCCACTACATTGTGG
 AAGCCGGGCTCCCTCATGAAGACAGATCTGCAGGGCGACACTCCCGGAGCGCGCTGAGAAGGCTCA
 AGACACAGAGCTCGTGCCTACCTGGAGAACAGACAGCATTACCAGATGATCCAGCGTGAAGGACAGGAG
 ACAGCTGTG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001166597
- Insert Size:** 3372 bp
- OTI Disclaimer:** 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).
- 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:	<u>NM_001166597.1, NP_001160069.1</u>
RefSeq Size:	4090 bp
RefSeq ORF:	3372 bp
Locus ID:	104418
Cytogenetics:	2 E1
Gene Summary:	<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 (1) encodes the longer isoform (1).</p>