

Product datasheet for **MC201196**

Dgkg (NM_138650) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dgkg (NM_138650) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dgkg
Synonyms:	90kDa; 2900055E17Rik; AI854428; Dagk3; E430001K23Rik; mKIAA4131
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC015278 sequence for NM_138650
 GTGTCTCAAGGCAATCACACTCGGCTGAAAAGATGAGCGAAGAACAATGGGTCTCTCTCATCAGAAGAA
 TTTGATCAACTCCAGAAATACTCTGAATATTCCTCCAAAAAGATAAAAAGATGTATTGGCTGAGTTAATG
 AAGGTGGAAGCCTCAGGCAGTATGACCCACACAAGCCATTAGCTATGATGTCTTCAAGCTGTTCATGAG
 GGCATACCTGGAGGTGGACCTTCCTCAGCCACTGAGCACACACCTTCTTGGCCTTCAGCCAGAAGCCC
 AGACAAGAGACACCTGACCATCCAAAGGAGGGGGCCAGCAGTAGTGAGCCCAATGTCTCAGATTATAATT
 CGGATAATGCTGCCAAAGCAGATGAGGCCTGTGCTCCAGACACTGAATCAAAAACAATAAGACACAAGC
 ACCATCTAAAGAACTAGAGGCTGCAGCCCATGGGAAGACCAGGTGCTCTGGCTTCAAGCTCAGATGCT
 CCCGTAGTGTACCTGAAGGATGTCGTGTGTTACTTGTCCCTGATGGAGACCGGGCAGCTCAGGATAAGC
 TAGAATTCATGTTTCGTCTCTATGATTCGGATGAAAATGGACTCCTGGACCAAGCGGAGATGGATCAGAT
 TGTGAGCCAAATGCTGCACGTTGCCAGTACCTGGAATGGGATCCACAGAGCTCAGACCTATACTGAAG
 GAGATGCTGCAAGGCATGGACTATGACAAGGATGGCTTCGTGTCTCTACAGGAGTGGATCAACGGGGGAA
 TGACCACCATCCCTTTGCTGGTCTCCTGGGAATGGATGACTCTGGCTCCAAGGGCGATGGGAGGCATGC
 CTGGACCCTGAAGCACTCAAGAAGCCACTTACTGCAACTTCTGCCGCCATGCTGATGGGTGTTGGG
 AAGCAAGGCTGTGCTGCATCTACTGTAATATACAGTCCACCAACGCTGTGTATCCAAAACCATTCATG
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 GTGTGGTGCCGGATGACGTTTACCAGCAATGTGAATTATCGACAGTGTGCGACGGTGGGAACTCAAAG
 ACCACATTTTGTGCCTACCTCCATATGCCCGTCTCCGGAGACCGGCAAGGAGGGAAAGTCCGATGGCAG
 TGTGGCCGCAAGGGTGAACCTGTAACCTCAGTATAAGATCATCCCTAGCCCGGGGACGCATCCCCTGCTG
 GTCCTGGTGAACCCCAAGAGTGGAGGAAGACAAGGAGAAAAGAAATCTTCGAAATTTCACTACCTGCTCA
 ACCCCGAACAAGTTTTCAACCTGGACAATGGGGACCTACACCAGGATTGAACCTCTTTCATGATACCCC
 AGACTCCGTGTTCTTGCCTGTGGCGGAGATGGGACCGTGGCTGGATTTTGGATTGATTGATGAGGCT
 AACTTCACAAGCACCCACCGGTGGCTGTCTGCCTCTTGAACAGGGAATGACCTCGCACGATGCCTCC
 GCTGGGGAGGAGTTACGAAGGGGGCAGCTTGACCAAAATCCTGAAGGAAATTGAACAGAGCCCTTGGT
 GATGCTGGACCGTTGGTACCTAGAGTCAATGCCAGGGAAGAGTGGAGAATGGAGACCAAGTCCCATAC
 AACATCATGAACAATAATTTCTCCATTGGTGTGGATGCTTCAATTGCACACAGATTCCATATGATGAGAG
 AGAAACACCTGAAAAATTAACAGCAGGATGAAGAACAAGTGTGGATTTTGAATTTGGTACCTCGGA
 AACCTTTGCAGCCACCTGCAAGAACTCCATGACCACATAGAGCTGGAGTGTGACGGAGTTGAGGTGGAT
 CTGAGCAACATCTTCTGGAAGGCATCGCCATTCTTAATATTCAGCATGTACGGAGGCCAATCTCT
 GGGGAGAAACCAAGAAGAACCGGCTGTGATCCGGGAAAGCAGGAAGAGCGTCACAGACCAAGGAGCT
 GAAATGCTGTGTCCAAGACCTCAGCGATCAGCTCCTTGAAGTGGTGGGTCTAGAGGGAGCCATGGAGATG
 GGACAGATCTACACTGGCCTGAAGAGTGCAGGAGGAGACTGGCCAGTGTCTCTGTACCATTAGGA
 CTAACAAGCTTCTGCCGATGCAAGTAGACGGAGAGCCCTGGATGCAGCCACAATGCACGATTAATAACAC
 TCACAAAAACAGGCACCTATGATGATGGGGCCTCCCCAGAAGAGCAGCTTTTTTCTCTGAGGAGGAAA
 AGCCGTTCAAAGACTAAACAATATGCCAACACCAGCTCTACTGAGAAAGGAAAGAAATCTACACAC
 ACACACACACACACACACACACACACACACACACACCTGTAACCAGAGGAAGCCAAGCCACCTCCAG
 AGGAAAGTGAATCCTGCCATGCAGTCTACCTGTTTTGAAATGGATCCACTCTTAACAGAGCCAATACC
 CATGAAATATTCAAATGGACTCAGGGCCACGAAGATGGTTGGCTCATGCAGCAACTTTCACATTCCC
 ACAGGCTTTGGGTAGACTTTGAGCCTGCAGGAGAAATCTCCCTTTTTCTGTGCCACACTCCTGTAAGGCT
 CCAGGTTGTAGGTTTCTGCCTACAGCAAGATCGGATGTGGTCAAGGAAAGAGCTCCAACCCAGAAGCC
 TTGCACAAAAGTCTTCTGTATAAAAAACAAAACAGCCACAGCTCTGCAAGCAGAAGCCTTGGCAGGGCT
 CGGCGAGCACAGGATGGTTGCTTTGCTGTCTTCAAGTAACAGCTCCCCCTTAACCTGACAGGGGAAAGC
 CAAGAAGCTGTGGAAAGCCGTTTCCATTCTTGGTTCCTCTGCTGTCCATGGGTACTTGTTCGTTCTCTG
 AAGCATCTTGGTGGCTGTTTTGCTTAGAGAGCAACAAGGCTGCCCGGCAGCGTGTCTTAGATGTGG
 TATTTATTTTCATAGTTCTATGAACACTTGGGAGGAAGAGCTGAGAAAAGTGGACTTTATTTTCAAATT
 TGATGTCATAATATTGTGTA AAAAGGAAAGAAACAGAAAAA AAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_138650
Insert Size: 2367 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:	<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:	BC015278 , AAH15278
RefSeq Size:	3201 bp
RefSeq ORF:	2367 bp
Locus ID:	110197
UniProt ID:	Q91WG7
Cytogenetics:	16 13.37 cM
Gene Summary:	Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:32033984). Thereby, acts as a central switch between the signaling pathways activated by these second messengers with different cellular targets and opposite effects in numerous biological processes (PubMed:32033984). Has no apparent specificity with regard to the acyl compositions of diacylglycerol (By similarity). Specifically expressed in the cerebellum where it controls the level of diacylglycerol which in turn regulates the activity of protein kinase C gamma (PubMed:32033984). Through protein kinase C gamma, indirectly regulates the dendritic development of Purkinje cells, cerebellar long term depression and ultimately cerebellar motor coordination (PubMed:32033984).[UniProtKB/Swiss-Prot Function]