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Product datasheet for MC222705

Dgkq (NM_199011) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dgkq (NM_199011) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dgkq
Synonyms:	110kDa; DAGK; Dagk4; DAGK7; Dgkd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC222705 representing NM_199011
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGCAGCCGAGCCCGGTGCCCGGACCTGGCCGGGCAGTGGTTCCCCACGTCTTGGCAGCCCGG
CCGGCAGTCCAGTGCTGGGCATCTCGGGCCGCACACGCCCGGGGTCAGGGCCGGAGCGGACTAGCAGAGC
TATTGGCTCCGCAGCACCTGGCCACAGCTTTCGCAAGGTGACACTCACCAAGCCTACCTTCTGCCACCTC
TGCTCGGACTTCATCTGGGGACTGGCTGGCTTCCTGTGCGATGTCTGCAACTTCATGTCCCATGAGAAGT
GCCTGAAGCAGGTGAAGACCCCGTGCACAAGCATTGCACCAAGCCTCGTCCGGGTGCCTGTAGCCCACTG
CTTTGGTTCCCTTGGTCTCTACAAGCGCAAGTTCTGTGTGGTCTGCCGCAAGAGCCTGGAGGTACCCGCA
TTCCGCTGTGAAGTGTGTGAGCTGCACGTTCACCCCGACTGTGTGCCCTTCGCCTGCAGCGACTGTCGTC
AGTGCCACCAGGATGGACAGCAGGATTATGACACGTATCACCACCACTGGAGGGAGGGGAACCTGCCTTC
TGGTGCACGATGTGAGGTCTGTAGGAAGACTTGTGGTTCCTCAGATGTGCTGGCTGGTGTACGCTGCGAG
TGGTGTGGTGTACAGGCTCACTCAGTGTGCTCCACAGCACTTGCGCCTGAGTGTACATTTGGACGTCTAC
GCTCCATGGTACTGCCTCCTTCGTGTGTGCGCCTGTTGTCCCGAAACTTCAGCAAGATGCACTGTTTCCG
AATCCCTGAGACCATGGTCCTGGAGCTTGGTGATGGGGATGATGGCGTAGACGGGAGTGCTGCTATAGGC
ACAGGCAGAGAGGTACTGACAGCTACAGAGTCCACCAAACAGACCCTGAAGATCTTTGATGGCAACGACT
CCATGAGGAAAAATCAGTTTCGTCTGGTTACAGTTTCCCGCCTGGCTCGGAATGAGGAAGTGATGGAGGC
AGCACTTCGGGCCTACTATATTAGCGAGGACCCTAAGGACTTCCAGCTGCAGGCACTGCCCCTGTCTGGC
AATGCCCAGGCTCTGGGGAAGGCTGGGACCACTGAGGAGGAGGCTAGTAAAGGCTCTTGTCCCCGGGATT
CCGTGCCTGAGGCCTGGGTCATCAGGTCTTTGCCTCGTACCCAAGAGATCCTGAAGATCTACCCTGGCTG
GCTCAAGGTAGGTGTGGCCTACGTGTCCATCCGTGTGAACTCCCAGAGTACAGCACGGTCTGTGGTTCAA
GAGGTTCTCCCACTGTTTGGACAACAGGTTGAGGATAAGGAGAGATTCCAGCTGATTGAGGTGCTCATGA
GCAGCAGACAAGTCCAACGGACCGTGCTGGCAGATGAAGAACCTCTGCTAGACCGACTCTGGGACATCCG
ACAGACTTCTGTGCGCCAGGTGAGCCAGACGCGGTTCTACGTGGCCGAGACCAGGGCCACGGCCCCACGT
GTCTCCCTGTTCGTGGGTGGCCTGCCACCTGGCTTGTCCCCCCAGGATTACAGCAACCTGCTGCATGAGG
CCATGGCCACCAAAGCTGCTGTGGTGTCTGTGAGTCACGTCTACTCCTTACAAGGTGCAGTAATTCTGGA
CGTCACCTGCTTCGCGGAGGCTGAGCGGCTATACATGCTGGCCAGGGACACAGCAGTGCATGGCCGGCCA
CTGACTGCATTAGTGCTTCCAGATGTGCTGCACACGAAGCTGCCTCCTGACTGCTGCCCTCTCCTCGTGT
TTGTGAACCCCAAGAGTGGGGGTCTCAAGGGACGAGAACTGCTCTGCAGTTTCCGGAAGCTGCTGAATCC
GCACCAGGTCTTTGAGCTAACCAACGGGGGCCCTCTTCCTGGGTTCCACCTTTTCTCCCAGGTGCCCAGT
TTTCGGGTACTGGTGTGTGGTGGAGATGGCACCGTTGGCTGGGTGCTCGCTGCCCTGGAGGAGACAAGGC
GCCATCTGGCCTGTCCAGAGCCATCTGTGGCCATCTTGCCCCTGGGTACAGGGAATGACCTTGGCCGGGT
CCTTCGTTGGGGGGCAGGCTATAGTGGTGAGGACCCATTTTCTGTGCTGGTGTCGGTGGATGAGGCTGAT
GCTGTGCTCATGGATCGATGGACAATCCTGCTGGATGCTCATGAAATTGATAGTACAGAGAACAATGTGG
TAGAAACAGAGCCCCCCAAGATTGTTCAGATGAATAACTACTGTGGCATTGGTATTGATGCGGAGCTCAG
CCTGGACTTCCACCAGGCACGTGAAGAGGAGCCTGGCAAATTCACAAGCAGGTTCCACAACAAGGGCGTG
TATGTGCGGGTCGGGCTGCAGAAGATCAGCCACTCTCGAAGCCTACACAAGGAGATCCGGCTGCAGGTGG
AGCAGCAGGAGGTGGAGCTACCCAGCATTGAGGGTCTCATCTTCATTAACATCCCCAGCTGGGGCTCAGG
GGCCGACTTGTGGGGCTCTGACAACGACTCAAGGTTTGAGAAGCCACGCATAGACGACGGGCTGTTGGAG
GTGGTGGGTGTGACAGGTGTCGTGCACATGGGCCAGGTACAAGGTGGGCTACGCTCTGGAATCCGCATTG
CCCAGGGCTCCTACTTCCGTGTCACACTCCTCAAGGCTACTCCAGTGCAGGTGGATGGTGAGCCCTGGGT
TCAGGCCCCAGGTCACATGATCATCTCTGCTACTGCACCTAAGGTTCACATGCTGAGAAAGGCTAAGCAG
AAGCCCAGGAAGGCTGGCGCCAACAGGGATACCCGAGTGGACACCTTGCCTGCTCCTGAGGGCAATCCTT
TATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_199011
Insert Size:	2805 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:	NM_199011.1, NP_950176.1
RefSeq Size:	4612 bp
RefSeq ORF:	2805 bp
Locus ID:	110524
UniProt ID:	Q6P5E8
Cytogenetics:	5 53.24 cM
Gene Summary:	Phosphorylates diacylglycerol (DAG) to generate phosphatidic acid (PA). May regulate the activity of protein kinase C by controlling the balance between these two signaling lipids. Activated in the nucleus in response to alpha-thrombin and nerve growth factor (By similarity). May be involved in cAMP-induced activation of NR5A1 and subsequent steroidogenic gene transcription by delivering PA as ligand for NR5A1. Acts synergistically with NR5A1 on CYP17 transcriptional activity (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.