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Product datasheet for MR211245

Dgkq (NM_199011) Mouse Tagged ORF Clone

Product data:

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

ORF Nucleotide Sequence:

>MR211245 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGCAGCCGAGCCCGGTGCCCGGACCTGGCCGGGCAGTGGTTCCCCACGTCTTGGCAGCCCGG
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TATTGGCTCCGCAGCACCTGGCCACAGCTTTCGCAAGGTGACACTCACCAAGCCTACCTTCTGCCACCTC
TGCTCGGACTTCATCTGGGGACTGGCTGGCTTCCTGTGCGATGTCTGCAACTTCATGTCCCATGAGAAGT
GCCTGAAGCAGGTGAAGACCCCGTGCACAAGCATTGCACCAAGCCTCGTCCGGGTGCCTGTAGCCCACTG
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TTCCGCTGTGAAGTGTGTGAGCTGCACGTTCACCCCGACTGTGTGCCCTTCGCCTGCAGCGACTGTCGTC
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AATCCCTGAGACCATGGTCCTGGAGCTTGGTGATGGGGATGATGGCGTAGACGGGAGTGCTGCTATAGGC
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TA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211245 protein sequence
Red=Cloning site Green=Tags(s)

MAAAAEPGARTWPGSGSPRLGSPAGSPVLGISGRTRPGSGPERTSRAIGSAAPGHSFRKVTLTKPTFCHL
CSDFIWGLAGFLCDVCNFMSHEKCLKQVKTPCTSIAPSLVRVPVAHCFGSLGLYKRKFCVVCRKSLEVPA
FRCEVCELHVHPDCVPFACSDCRQCHQDGQQDYDTYHHHWREGNLPSGARCEVCRKTCGSSDVLAGVRCE
WCGVQAHSVCSTALAPECTFGRLRSMVLPPSCVRLLSRNFSKMHCFRIPETMVLELGDGDDGVDGSAAIG
TGREVLTATESTKQTLKIFDGNDSMRKNQFRLVTVSRLARNEEVMEAALRAYYISEDPKDFQLQALPLSG
NAQALGKAGTTEEEASKGSCPRDSVPEAWVIRSLPRTQEILKIYPGWLKVGVAYVSIRVNSQSTARSVVQ
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LTALVLPDVLHTKLPPDCCPLLVFVNPKSGGLKGRELLCSFRKLLNPHQVFELTNGGPLPGFHLFSQVPS
FRVLVCGGDGTVGWVLAALEETRRHLACPEPSVAILPLGTGNDLGRVLRWGAGYSGEDPFSVLVSVDEAD
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YVRVGLQKISHSRSLHKEIRLQVEQQEVELPSIEGLIFINIPSWGSGADLWGSDNDSRFEKPRIDDGLLE
VVGVTGVVHMGQVQGGLRSGIRIAQGSYFRVTLLKATPVQVDGEPWVQAPGHMIISATAPKVHMLRKAKQ
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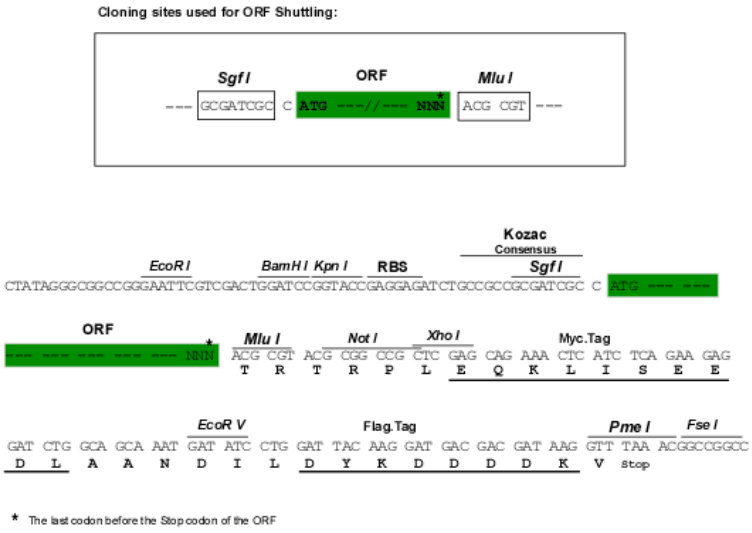
Restriction Sites: SgfI-MluI

Cloning Scheme:

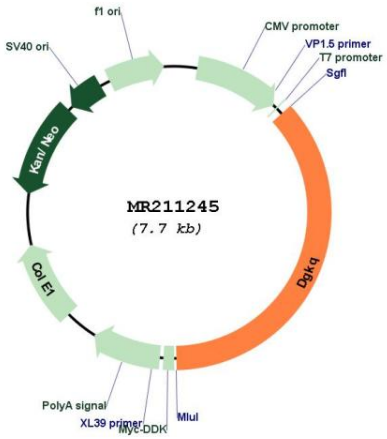


ACCN: NM_199011

ORF Size: 2805 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:	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_199011.2
RefSeq Size:	4612 bp
RefSeq ORF:	2805 bp
Locus ID:	110524
UniProt ID:	Q6P5E8
Cytogenetics:	5 53.24 cM
MW:	102.3 kDa
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]

Product images:



Circular map for MR211245