

Product datasheet for **RC212956**

DGKK (NM_001013742) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKK (NM_001013742) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DGKK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212956 representing NM_001013742 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGACCGCGGAGCTGCCGACGCCAGGGCACTGCCCCGCCTCAGGATGGAGAGCAGCCGCTGAGTCTC
CAGAGCCTCCGCCGCCTTGCGCGCCGCCACCACCGGCTCCGCCCGCGCTCCGCCGCTGCTCTC
CGAGGCTTCGCCAGAACCATACCAGAGCCCTGTCCAGAGCTTGCTCCAGGTCCCTGTCCAGAGGCGACC
TCAGAATCAGCCACAGAAGTGTACACAGAACCACGCCAGCCACAGAGCCGCCCTCAGAACCGG
CCCCAGAACCTGCCACAGAGCCGCCGCCAGAACCTGCCACAGAGCCGCCGCCAGAACCGGCCCAAC
TGCCACAGAGTCTGCCCGAGAGCCGACTCCAGAACCTGCCCTAGAGTCGGTCCAGAGCCGCCCGCAGAG
CTGACTCCAGAAGTTGCCCGAGAGCTGGCCCCAGAGCCGACCCAGAACCTGTGACAGAGCTGGCCCCAG
AGTTCTGCCCTGAGGCGGCTCCAGAGTTCGGTCCAAGTCCAGCACCATGTCTATTGCAATGTCCGGTGA
CACTCGAGAGAGAGGTCTAAAGACCTCGCCATCGCCATCGCCATCGCCAGAACGCCAATGTCTG
TGGTCCAGAATAAAGAAAATATTGAAGGAAGGACCTATGCTGAAGAACTGTAACCTTTCAAGAGATGGA
AGCTTAGATATTTCTGGTTCAAGGACAGAAGCTCTACTTTGCACACCATCCCGGTTTGCACACCTTGA
AACGATTGATCTGTCTAAGCCACTGTGGCAGAAAGCAGCTGTAGAAACCTTTGCCACAGTTTTTGTGTT
ATTACACCACAACGAAAAATCACTCTGGCTGCACCAACCGGAAAGACATGGAAGAATGGATTAACATCA
TAAAAACCATCCAACAGGAGAAATTTATAAGATACCTGCAGCAGAAAACAACCTTTTCTGTGTTGGAAT
GCATTGTTGGTACTCCAGTTACAGCCACCGGACCCAGCACTGCAATGTTGTGCGAGAGAGCATTCCTGCC
TTATCTAGAGATGCCATCATCTGTGAAGTGTGCAAAGTGAATCTCACAGATTGTGTGCTTTGAGAGCAA
GCAAAGACTGCAAGTGAATACATTGTCTATCACTGATGACCTCCTTCTGCCTGCAGATGAAGTAAACAT
GCCCCATCAATGGGTAGAAGGAAACATGCCTGTGAGCTCTCAGTGTGAGTGTGTCATGAGAGCTGTGGC
AGTTATCAAAGACTTCAAGACTTCCGCTGCCTGTGGTGAATTTACGGTGCATGATGACTGTAGGAGAC
GGTTTTCAAGGAATGTTGCTTCAGAAGCCATCGCTCATCAGTCATTCTCCCACTGCTCTAAGCGACCC
CAAAGGCGATGGCAATTAGTAGTATCTTCAGACTTCTGGAATCTTGATTGGTCATCAGCCTGTTTCATGT
CCCTTGCTCATCTTCACTCACTCAAAAGTGGCGATCATCAGGGGATCGTCTTCCGAAAAATCAAGC
AATACCTTAACCATCTCAAGTGTTCGACTTATTGAAGGTGGACCTGAAGCAGGGCTGTCTATGTTCAA



View online »

GAACTTTGCTCGCTTTCGCATTCTGGTTTGTGGTGGAGATGGCAGCGTGAGCTGGGTCTTATCTCTGATT
 GATGCCTTTGGATTACATGAAAAGTGTCAGTTGGCAGTCATCCCCTTGGAAACGGCAATGATCTGGCTC
 GTGTTCTGGGCTGGGTGCATTCTGGAACAAAAGCAAGTCACCTCTGGACATCCTCAACAGAGTGGAGCA
 GGCTAGTGTGAGGATCCTAGACAGATGGAGTGTGATGATTCGTGAGACTCCCAGACAAACCCGCTGCTA
 AAAGGACAGGTTGAAATGGATGTACCACGATTTGAGGCTGCTGCCATCCAACACTTAGAATCTGCAGCCA
 CCGAGTTGAACAAAATCCTGAAGGCCAAGTACCCACAGAGATGATCATCGCAACCAGATTCTTGTGTTT
 AGCTGTGGAAGATTTTGTGGTTGATATTGTAAAGGCCTGGGTGAGATAAAACAGAACAACTGCAATA
 GTGCTGTGATTTTGAAGTGACTTAATGTATGATAGGCTCAGTGTCTGATCGATGTCCTGGCTGAGG
 AGGCAGCAGCTACTTCTGCTGAAAAAGTGCTACAGAATATGCAGACAGCAGCAAGGCAGATAGGAAGCC
 CTTCACTTCTCAATAGACCACATAGCCAAGTGCAAGTTGGAGCTGGCTACAAAGGCCAGAGTCTCCAG
 AAATCCTTGAACTCATCATATTTCAAGTTGAACAAGCTCTGGATGAGGAAAGCAGACAGACAATATCTG
 TTAAGAACTTTAGTTCAACTTTCTTCTGGAAGATGACCCAGAAGATATTAACCAGACAAGCCACGACG
 CCGTTCTCGTGGCACTTTGTCTTATATCTTCTCTCAAAAGTGAGGACCTGGACAACCTTAACCTG
 GATCACTTACATTTTACACCTGAATCTATACGCTTCAAAGAAAAATGTGTCATGAACAACCTACTCGGAA
 TTGGACTGGATGCTAAAATTTCTGGAATTCACACCAGAAGAGATGAACACCCAGGGCAATACAATAG
 CCGCCTTAAGAACAAAGATGTGGTATGGCCTTCTGGGAACCAAGAACTTTTGACAGCGCTCTTACAGGAAA
 CTGGAAGAACGAGTGCATTTGGAGTGTGATGGAGAAACCATCTCCTTGCCAAACCTGCAAGGCATTGTAG
 TGCTCAACATTACCAGCTATGCTGGAGGTATCACTTCTGGGGAAGCAACACAGCAACCAGGAATATGA
 GGCTCCTGCAATCGATGATGGGAACTGGAGGTGGTGGCAATCTTTGGTTCTGTGAGATGGCAATGTCC
 CGTATCATCAACCTGCATCATATCGCATTGCCAGTGCCATGAGGTGATGATAACCATTGATGGTGAAG
 AAGGTATCCCAGTGCAGGTGGATGGGGAGGCCTGGATTCAGAGACCAGGCCTTATCAAAATTAGATACAA
 GAACGCTGCCAGATGCTGACAAGAGATCGGGACTTTGAGAACTCAATGAAAATGTGGGAATACAAGCAT
 ACTGAAATTCAGCTGCCCTCAACCCAGCTGGACTTCAGGACTCTCAAGAGAGCCTCTCTGACGAGG
 AGTATGCCCAGATGCAGCACTTAGCTCGGCTTGAGAAAACCTCATCAGCAAACTTAATGACCTGAGCAA
 GATCCACCAGCATGTGTCTGTCTCATGGTTCTGTGAATGCCAGCGCTAACATCCTGAATGATATATT
 TACGGCCAAGACAGTGGCAATGAGATGGGTGCAGCTTCTGTATTCCCATTGAACTCTAAGCAGAAATG
 ATGCCGTAGATGTTACATTTAGTCTTAAAGGTCTCTACGATGACACCACAGCTTCTGATGAAAAGCT
 GCTGAGAAAGTGTGAGGATGAGACTGACTACAAAGCGCCCTGGATGCCATGAATAAGGAGTTCAAAAAG
 CTATCTGAGATTGACTGGATGAATCCAATCTTTGTTCCAGAGGAAAAATCTTCGGACACTGACAGTAGAA
 GCCTCAGGCTGAAAATTAAGTTCCCAAATTTGGGAAAGAAAAAGGTAGAAGAGGAACGCAAGCCTAAATC
 AGGCCAGAGTGTCCAGAGTTTTATTGGCAATTTATGGCACCAGACATCGTGAAGATGAAGCAGAGGGT
 GATGATCCTCTAACACCATCGAGATCTCAACTG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212956 representing NM_001013742
 Red=Cloning site Green=Tags(s)

MDRGAAGAAQGTAPPQDGEQPAESPEPPPPWPPPPPPAPPAPPLLSEASPEPIPEPCPELAPGPCPEAT
SESATELYTEPTPEPATEPASEPAPEPATEPAPEPATEPAPEPATESAPEPTPEPALESVPEPAPE
LTPEVAPELAPEPTPEPVTELAPEFCPEAAPEFRSPAPCLLQCPVDTREGLKTSPPSPSPSPRTPM
WSRIKKILKEGPMLKNCNSFKRWKLRYFLVQGQKLYFAHHPAFAHFETIDLQATVAESSCRNLCHSFCV
ITPQRKITLAAPNRKDMEEWINIKTIQGEIYKIPAAENPNFLVGMHCWYSSYSHRTQHCNVCRESI
LSRDAICEVCKVKSHRLCALRASKDCKWNTLSITDLLLLPADEVNMPHQWVEGNMPVSSQCAVCHESCG
SYQRLQDFRCLWCNSTVHDDCRRRSKECCFRSHRSSVIPPTALSDPKGDGQLVVSDFWNLDWSSACSC
PLLIIFINSKSGDHQGIYFLRKFKQYLNPSQVFDLLKGGPEAGLSMFKNFARFRILVCGGDGGSVSWVLSLI
DAFGLHEKCLAVIPLGTGNDLARVLGWGAFWNKSKSPLDILNRVEQASVRILDRWSVMIRETPRQTPLL
KGQVEMDVPRFEAAAIQHLESAATELNKILKAKYPTEMIATRFLCSAVEDFVVDIVKAWGQIKQNNTAI
VSVILKSDLMYDRLSVLIDVLAEEAAATSAEKSATEYADSSKADRPKPIQIDHIAKCKLELATKAQSLQ
KSLKLIIFQVEQALDEESRQTSIVKNFSSTFFLEDDPEDINQTSPPRRSRRTGLSSISSLKSELDNLNL
DHLHFTPEsirfKEKCMNNYFGIGLDAKISLDFNTRRDEHPGQYNSRLKNKMWYGLLGTEKELLQRSYRK
LEERVHLECDGETISLPNLQGIIVVLNITSYAGGINFWSNTATTEYEAPADDGKLEVVAIFGSVMAMS
RIINLHHHRIAQCHEVMITIDGEEGIPVQVDGEAWIQRPLIKIRYKNAQMLTRDRDFENSMKMWEYKH
TEIQAAPQQLDFDQSQESLDEEYAQMQHLARLAENLISKLNLSKIHQHVSVLMGSVNASANILNDIF
YGDGSGNEMGAASCIETLSRNDVAVDTFSLKGLYDDTTAFLDEKLLRSAEDETALQSQALDAMNKEFKK
LSEIDWNMNPVPEEKSSDTSRSLRLKIKFPLKGKKVVEERPKPSGGSVQSIGNLWHRRHREDEAG
DDPLTPSRSQL

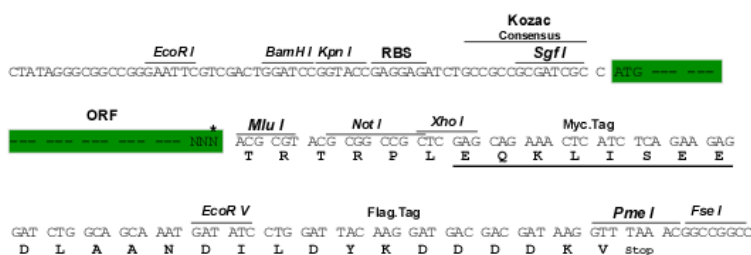
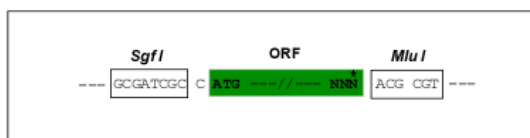
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8107_a08.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



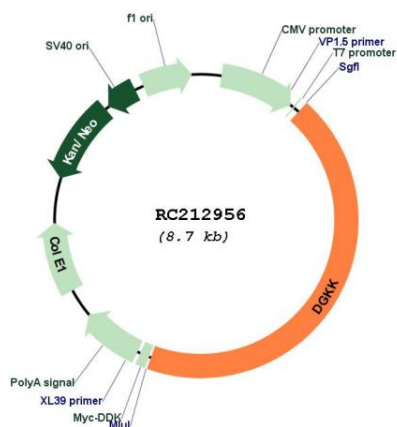
* The last codon before the Stop codon of the ORF

ACCN: NM 001013742

ORF Size: 3813 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001013742.4
RefSeq Size:	3920 bp
RefSeq ORF:	3816 bp
Locus ID:	139189
UniProt ID:	Q5KSL6
Cytogenetics:	Xp11.22
Protein Families:	Druggable Genome
MW:	141.8 kDa
Gene Summary:	The protein encoded by this gene is an enzyme that phosphorylates diacylglycerol, converting it to phosphatidic acid. The encoded protein is a membrane protein and is inhibited by hydrogen peroxide. Variations in this gene have been associated with hypospadias. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RC212956