

## Product datasheet for **RR214094**

### Dgki (NM\_198782) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dgki (NM\_198782) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dgki  
**Synonyms:** rDGKi-3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR214094 representing NM\_198782  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGATGCTGCGGAAGGGGCTGCCATTTGCTGCCCTGCCAGCGCGCGCGGACCTGCCCGCTCCCG  
CCGCTCCAGCGCCCTCAGCCCGCCGGCTCTGCAGCGCACCCCTCGGCTTCTCCGCGCCCGCGG  
AGCGGTGCCATGAACCCAGCTCCTCGCGGGAGAGGAGAGAGGGGCGACGGGCGGTAGCAGCAGCAGC  
GGAAGCGCGCCCGGAGCTGCTGCCTGGCGCCGAGGGCGCGTGGACCCGCGGGGTGCAGGGGACGCGG  
CGCTGCTGCCTTGAGGAGCCCGCGCCCGGACAGAAAGAGAAGGAAGAGGGCTGGAGGAGAAGCT  
GAGGGACTTAACCTTCCGGAAGCAGGTCTCTTACAGGAAAGCCATCTCCCGGACAGGCCTCCAGCATCTG  
GCTCCTGCACATCCTCTTGGTCTTCTGTGGCAAACGGTCCAGCGAAGGAGCCAGAGCGACTCTGGACT  
GGAGTGAGAAATGCTGTGAATGGGAGCACCTATGGCTGGAGACCAACGTCTCGGGGACCTCTGCTACTT  
GGGGGAGGAGAACTGCCAAGTCCGATTTGCAAAATCCGCTCTCAGGAGGAAGTGTCTGTCTGCAAAATT  
GTGGTCCACACCCTGCATTGAGCAACTAGAGAAGATTAATTTTCAGATGTAACCTACATTTCCGGAAG  
GAGGCTCCAGATCGCCAAGAGAAAACCTTTGTGCCCATCACTGGGTCCACAGGAGCGGACAGGAGGAAA  
ATGTAAGCAGTGTGGTAAGGGCTTCCAGCAAAAGTTCTCCTTCCACAGTAAAGAGATCGTGGCCATCAGC  
TGTTCTTGGTGCAAGCAGGCGTTTCAACAATAAAGTGACCTGCTTCATGCTGCATCACATCGAGGAACCT  
GCTCCCTGGGGCTCATGCTGCTGTTATTGTCCCGCCACCTGGATCATTAAAGTGAAGAAACCTCAGAA  
CTCCCTGAAGGCTTCCAACCGGAAGAAGAAAAGAACAAGTTTTAAAAGGAAAGCCAGTAAAAGAGGAACC  
GAGCAGGAAAACAAGGTCGCTCTTTTGTGATCAAGCCATCTCCTCTCATGAAGCCTTTGCTTG  
TCTTTGTGAACCAAAGAGTGGGGAAACCAGGAAACCAAGTCTACAGATGTTTATGTGGTACCTGAA  
TCCACGGCAAGTCTTTGACCTTTCTCAGGAAGGGCCAAAAGATGCGCTGGAGCTGTACAGGAAGGTACCA  
AATCTGCAATTCTGGCCTGCGGTGGGATGGAACGGTGGCTGGATCCTCTCCATCCTGGACGAGCTGC  
AGCTGAGCCACAGCCTCCTGTGGGGTCTTCCGCTGGGACTGGGAACGACCTGGCTCGGACGCTCAA  
CTGGGGAGGGGTTACACCGATGAGCCTGTTTCTAAGATCCTGTGCCAGGTGGAAGACGGGACCATTGTA  
CAGTTGGATCGCTGGAACCTCCATGTGGAGAGAAAACCCAGACTTGCCACCTGAAGAACTGAAGATGGCC



[View online >](#)

TGTGTAAGCTTCCTCTGAATGTCTTCAATAAATTAATCTCAGCCTTGGATTTGACGCTCATGTCACATTGGA  
 GTTCCATGAATCCCGAGAAGCAAATCCAGAGAAATTAATAGTCGTTTTCGAAATAAAATGTTCTATGCG  
 GGGGCAGCCTTTTCTGATTTCTACAGAGAAGTTCTAGAGATCTATCCAAGCACGTCAAAGTTGTTTGTG  
 ATGGGACAGACCTCACTCCAAGATCCAGGACCTGAAGTTCCAGTGTATAGTATTTTTAAATATCCCA  
 ATATTGTGCTGGCACAATGCCTTGGGAAAACCTGGAGATCATCATGACTTTGAACCCAGCGTCATGAT  
 GATGGTTACATTGAAGTCATCGGATCACTATGGCCTCTTTGGCTGCCCTGCAAGTCGGGGGCCACGGAG  
 AAAGTTGCACCAATGTCGGGAAGTGATGCTTCTGACGTACAAGTCCATCCCATGCAAGTGGACGGGA  
 GCCATGTAGTTGGCGCTGCTATGATTGGATCTCCTTGAGGAATCAGGCCAACATGGTACAGAAGAGC  
 AAGCGGAGAACCTCAATGCCTTTGCTCAATGATCCCCAGTCTGTCCCAGATCGCCTGAGGATCCGCGTGA  
 AAAAAATCAGTTTACAAGACTATGAAGGACTCCACTATGACAAGGAGAAACTCCGGGAAGCGTCCATCCC  
 CCTGGGTATTCTAGTTGTTCTGGGAGACTGTGATTTGGAGACTTGCCGTATGTACATAGACCCGCTGCAG  
 GAGGACTTGCAGTCAGTTTCTTCTGGGTCACAGAGAGTTCATTACCAGGACCAAGAAACTCCTTCCCCA  
 GGGCGATCTCAGCTCAGAGGCTGTCCACGGTGGTGTCTCTAGACGCAACTTCTGCTGACCGCTTTTA  
 TCGAATAGACAGATCTCAGGAACATTTGCACTTTGTGATGGAGATTTCTCATGATGAGATTTTTATTCTG  
 GACCCAGATATGGTGGTGTACAGCAGGCAGGGACACCTCCAGGAATGCCAGACCTAGTGGTTGAACAGG  
 CTCTGGGCTGTCTGACTGGTGGAAACCTGCCCTGAGGAAACGTATGCTGAGTGACAGTGGGATGATCAC  
 ACCCCACTATGAGGACTCAGATCTGAAAGACTTCAGCCACTCCAGAGTGCTACAGTCACCAGTCTCTTCG  
 GAAGATCATGCAATTCTGCAGGCAGTCATAACTGGTGACCTTATGAAGCTCATGGAAAGCTATAAGAATG  
 GAGGGAGTTTATTAATTCAGGGACCCGGGCACTGTTCCCTCCTTCACTACGCAGCCAAGACTGGCAATGG  
 GGAGATCGTGAAGTACATCCTTGACCATGGACCTGCGGAATTACTGGACATGGCAGACAGTGAACCGGT  
 GAGACTGCACTGCACAAGGCCGCTGCCAAAGGAACCGGGCTGTATGCCAGCTTCTGGTGGACGCAGGAG  
 CATCTCTGAGACAGACAGACTCCAAGGGAAAGACACCCCAAGAGCGAGCACAGCAGGCTGGGACCCGGA  
 TTTGGCTGCTTACCTAGAAAGCCGACAGAACTATAAGATCATTGGCCACGAAGACCTGAAACTGCTGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR214094 representing NM\_198782  
 Red=Cloning site Green=Tags(s)

MDAAGRGCHLLPLPAARGPARAPAASSALSPAGLCSGTASASSAAAGAVAMNPSSSAGEERGATGGSSSS  
 GSGAGSCLGAEGVDPRGAGAAAAALEEPAAAGQKEKEEAL EEKLRDLTFRKQVSYRKAISRTGLQHL  
 APAHPLGLPVANGPAKEPRATLDWSENAVNGEHLWLETNVSGLCYLGEENCQVRFKSA LRKCAVCKI  
 VVHTACIEQLEKINFRCKPTFREGGSRSPRENFVRHHVHRRRQEGKCKQCGKGFQKFSFHSKEIVAIS  
 CSWCKQAFHNKVTCFMLHHIEEPCSLGAHA AVI VPPTWIIKVKKPNQSLKASNRKKKRTSFKRKASKRGT  
 EQENKGRPFVIKPISSPLMKPLL VFNPKSGGNQGT KVLQMF MWYLNPRQVFDLSQEGPKDALELYRKVP  
 NLRILACGGDGTGWILSILDELQLSPQPPVGLPLGTGNDLARTLNWGGGYTDEPVSKILCQVEDGTIV  
 QLDRWNLHVERNPDLPPEELEDGVCKLPLNVFN NYFSLGFD AHVTLEFHESREANPEKFN SRFRNKMFYA  
 GAASFDFLQRSSRDL SKHVKVVCDGTDLTPKI QDLKFQCI VFLNIPRYCAGTMPWGNPGDHHDFEPQRHD  
 DGYIEVIGFTMASLAALQVGGHGERLHQCREVM LLYKSI PMQVDGEPCLAPAMIRISLRNQANMVQKS  
 KRRTSMPLLNDPQSVDPDLRIRVNKISLQDY EGLHYDKEKLEASIP LGILVVRGDCDLET CRMYIDRLQ  
 EDLQSVSSGSQRVHYQDQETSFPRAISAQRLSPRWCF LDATSADRFRYIDRSQEHLHFVMEISHDEIFIL  
 DPDMVVSQQAGTPPGMPDLVVEQASGLSDW WNPALRKRMLSDSGMITPHYEDSDLKDFSHSRVLQSPVSS  
 EDHAILQAVITGDLMKLMESYKNGGSLLIQGP GHCSLLHYAAKTNGEIVKYILDHGPAELLD MADSETG  
 ETALHKAACQRNRAVCQLLVDAGASLRQTD SKGKTPQERAQQAGDPDLAAYLESRQNYKIIGHEDLETAV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

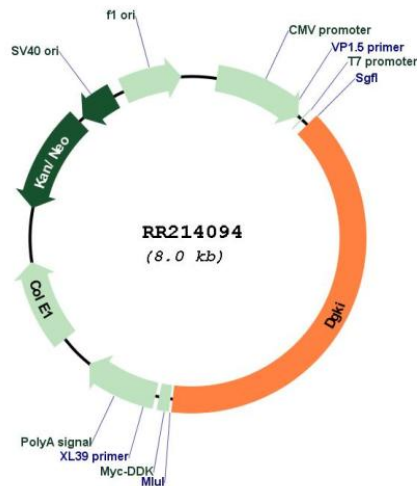
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_198782

ORF Size:

3150 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_198782.2</a></u> , <u><a href="#">NP_942077.2</a></u>
<b>RefSeq Size:</b>	3915 bp
<b>RefSeq ORF:</b>	3153 bp
<b>Locus ID:</b>	688705
<b>UniProt ID:</b>	<u><a href="#">F1MAB7</a></u>
<b>Cytogenetics:</b>	4q22
<b>MW:</b>	115.9 kDa
<b>Gene Summary:</b>	member of the family of diacylglyceride kinases which catalyze the phosphorylation of diacylglyceride to yield phosphatidic acid; involved in inositol lipid-mediated cell signaling [RGD, Feb 2006]