

Product datasheet for **RR212478**

Dgkz (NM_031143) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dgkz (NM_031143) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dgkz
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR212478 representing NM_031143
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCGCGGGACCCAGCCCGAGGCCGGAGCAGCGACTCGGAGTCGGCCTCCGCCTCGTCCAGCG
 GCTCCGAGCGCGACGCGGATCCGGAGCCGACAAGGCTCCGCGGGCGTTAACCAAGAGGCGCTTCCCGGG
 GCTGCGGCTCTTTGGGCACAGGAAAGCCATCACCAAGTCGGGCCTCCAGCACCTGGCACCCCTCTCC
 ACGCCTGGGGCCCGTGCGGTGAATCTGAGCGGCAGATCCGGAGTACTGTGGACTGGAGTGAGTCAGCAG
 CGTATGGGGAGCACATCTGGTTTGGACCAACGTGTCCGGAGATTTCTGCTATGTCGGGGAGCAGTACTG
 TGTAGCTAAGATGCTGCCGAAGTCAGCGCCAGAAGAAAGTGTGCAGCCTGTAAGATCGTGGTGCATACC
 CCTTGCATCGGGCAGCTGAAAAGATCAATTTCCGCTGTAAAGCCATCCTCCGTGAATCAGGCTCCAGGA
 ATGTCCGTGAGCCAACCTTCGTAAGACACCACTGGGTCCACAGGGCAGCCAGGATGGCAAGTGTGGCA
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 TGCAAACAGGCGTACCACAGCAAGGTGTCTGTCTCATGCTGCAGCAGATTGAGGAGCCCTGTTCCCTAG
 GGGTGCATGCAGCCGTGGTGCATCCACCCACCTGGATCCTACGGGCCCGAGGCCCCAGAACACCCTCAA
 GGCCAGCAAGAAGAAAAAGAGAGCATCCTTCAAAGGAGATCCAGTAAGAAAGGACCTGAGGAAGGCCGC
 TGGAGACCCTTCATCATCAGGCCACCCCGTCCCCCTCATGAAGCCCTGCTAGTGTGTTGTAACCCCA
 AGAGTGGGGTAACCAGGGCGCTAAGATCATCCAGTCTTTTCTGTGGTATCTGAACCCCGGCAAGTCTT
 CGATCTGAGCCAGGGAGGACCCAGGGAAGCGCTGGAAATGTACCGCAAAGTCCATAATTTGAGGATCTG
 GCTTGGGGGGTATGGCACGGTGGCTGGATTCTTTCCACCTAGACCAGCTGCGCTTAAACCCACCAC
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 CACAGATGAGCCAGTGTCAAAGATCCTTTCCCATGTAGAGGAGGGGAACGTGGTACAGCTGGACCGTTGG
 GACCTCCGAGCAGAGCCCAACCTGAGGCAAGGCTGAGGAGCGAGATGACGGAGCCACTGACCGCTGC
 CCCTGGATGTCTTCAACAATACTTCACTGCTGGCTTTGATGCCACGTACCCTGGAGTTTTCATGAGTC
 TCGAGAAGCCAAACCAGAGAAGTTCAACAGCCGCTTTCCGAATAAGATGTTCTATGCTGGGACAGCCTTC
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 CACCATGCCCTGGGGCCACCCTGGGAGCACCATGACTTCGAGCCCGAGGACAGATGATGGCTACCTC
 GAGGTATCGGCTTACCATGACATCCTTGGCCGATTGCAGGTGGTGGACACGGCGAGCGGCTGACCC
 AGTGCCGAGAAGTGTGCTCACCCTGCCAAGGCCATCCCTGTGAGGTGGATGGTGAACCTGCAAGCT
 TGCAGCATCGCGGATTGCAATTGCCCTGCGCAACCAGGCCACTATGGTGCAGAAGGCCAAGCGCCGAGT
 ACTGCCCACTGCACAGCGATCAGCAGCCAGTTCCTGAGCAGCTGAGGATCCAAGTGAGCAGGGTCAGCA
 TGCACGACTACGAGGCTCTCATTATGACAAGGAGCAGCTCAAGGAGGCCCTGTGTCCCTCTGGTACTGT
 GGTGGTCCCGGAGACAGTGACCTAGAGCTTCCGAGCCACATTGAGAGACTCCAGCAGGAGCCCGAT
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 CATGCACCGCAGCATCAGAGCCGACACTCCTGCACCACGAGTCAAGTGGCAGTAAGGAAGTGGTC
 CGTATCTGCTCGATCATGCACCACAGAGATCCTCGATGCTGTGGAGGAGAACGGGGAGACCTGTCTAC
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 GACAGATCAGCAGGGCAGACTCCAGGACGGAGCTGAGAAGGCTCAAGACACAGAGCTAGCTGCATAC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >RR212478 representing NM_031143
 Red=Cloning site Green=Tags(s)

MEPRDPSPEARSSDSESASASSGSRDADPEPDKAPRRLTKRRFPLRLFGHRKAITKSLQHLAPPPP
 TPGAPCGESERQIRSTVDWSESAAYGEHIWFETNVSGDFCYVGEQYCVAKMLPKSAPRRKCAACKIVVHT
 PCIGQLEKINFRCKPSFRESGSRNVREPTFVRHHWVHRRRQDGKCRHCGKGFQQKFTFHSKEIVAISCSW
 CKQAYHSKVSCFMLQQIEEPCSLGVHAAVVIPPTWILRARRPQNTLKASKKKKRA SFKRSSSKKGP EEGR
 WRPFIIRPTPSPLMKPLLVFVNPKSGGNQGA KIIQSFLWYLNPRQVFDLSQGGPREALEMYRKVHNLRI L
 ACGGDGTVGWILSTLDQLRLKPPPPVAILPLGTGNDLARTLNWGGGYTDEPVSKILSHVEEGNVVQLDRW
 DLRAEPNPEAGPEERDDGATDRLPLDVFNNYFSLGFDAHVTLFESREANPEKFN SRFRNKM FYAGTAF
 SDFLMGSSKDLAKHIRVVC DGM D LTPKI QDLKPQCIVFLNIPRYCAGTMPWGHGPEHDFEPQRHDDGYL
 EVIGFTMTSLAALQVGGHGERLTQCREVLLTTAKAIPVQVDGEPCKLAASRI RIALRNQATMVQKAKRRS
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 GAGAKSPMCHPLSSKWCFLDATTASRFYRIDRAQEHLNYVTEIAQDEIYILDPELLGASARPDLP TPTSP
 LPASPCSP TPGSLQGDALPQGEELIEAAKRND FCKLQELHRAGGDL MHRDHQSR TLLHHA VSTGSKEVV
 RYLLDHAPPEILD AVEENGETCLHQAAALGQRTICHYIVEAGASLMKTDQQGDT PRQRAEKAQDTELAAY
 LENRQHYQMIQREDQETAV

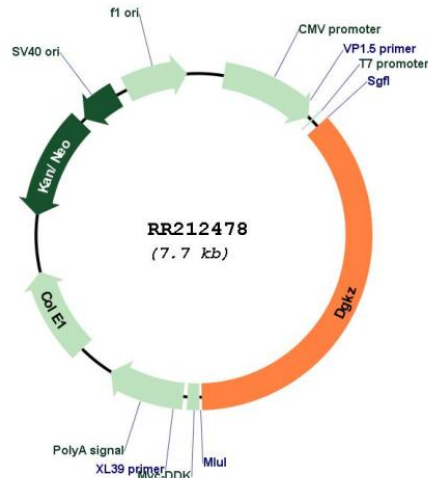
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_031143

ORF Size: 2787 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_031143.1](#), [NP_112405.1](#)

RefSeq Size: 3560 bp

RefSeq ORF: 2790 bp

Locus ID: 81821

UniProt ID: [O08560](#)

Cytogenetics: 3q24

MW: 104 kDa

Gene Summary: catalyzes the conversion of diacylglycerol to phosphatidic acid [RGD, Feb 2006]