

Product datasheet for **RR217323**

Prkd1 (NM_001276715) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkd1 (NM_001276715) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkd1
Synonyms:	nPKC-D1; nPKC-mu; Pkcm; Prkcm
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR217323 representing NM_001276715
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCGCCCTCCGCTACTACGGCCCTAGCCCGCTGTGCCCGCGGCCGCTGTGGCCGCCGCC
 CTGCTGCGCTGGTCCCGGCTCCGGGCCGCGCCCTTCCAGCGCTGGGCGGCCCGCGGGGGGCAT
 CTGTTCCATCTGCAGATCGGCCTGAGCCGCGAGCCGGTCTGCTCCTTCAGACTCCTCTGGCGACTAC
 AGCCTGGCGCATGTCCGGGAGATGGCTTCTCCATCGTGGACCAGAAGTCCCTGAATGTGGCTTCTATG
 GACTCTATGACAAGATCTGCTTTCCGTACGATCCTGCCTCTGAAAACATCCTTCAGCTGGTAAAAAT
 CGCAAGTGACATTCAGGAGGGCGATCTTATTGAAGTGGTCTGTGAGCTTCAGCCACCTTCGAAGACTTC
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 GCCCTGGCTTTGAGCAAAAGTCTCCATCTGAGTCAATTCGCTGAGTGAAGAGGTCAAATTTCTAGTC
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 CTCAGTGAGCGTGCAGCATCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217323 representing NM_001276715
 Red=Cloning site Green=Tags(s)

MSAPLLRPPSPLLPAAAAVAAAAAALVPGSGPAPFPAPGAAPAGGISFHLQIGLSREPVLLLQDSSGDY
 SLAHVREMACSIVDQKFPECGFYGLYDKILLFRHDPASENILQLVKIASDIQEGDLIEVLSASATFEDF
 QIRPHALFVHSYRAPAFCDHCGEMLWGLVRQGLKCEGCGLNYHKRCAFKIPNNCSGVRRRRLSNVLTGL
 GTVRTASAEFSTSAPDEPLLSPVSPGFQKSPSESEFIGREKRSNSQSYVGRPIQLDKLLMSKVVPHTFV
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 TGANPHCFEITANVVVVYGENVVNPSSPPNNSVPPSGIGTDVARMWEVAIQHALMPVIPKSSVSGT
 NSHKDISVSVNSQIQENVDISTVYQIFPDEVLGSGQFGIVYGGKHKRKTGRDVAIKIIDKLRFPKQE
 SQLRNEVAAILQNLHHPGVNLECMFETPERVVFVMEKLGDMLEMILSSEKGRLEPHITKFLITQILVAL
 RHLHFKNIVHCDLKPENVLLASADPFQVKLCDFGFARIIGEKSFRRSVGTPAYLAPEVLRNKGYNRS
 DMWSVGVIIYVLSGTFPFNEDEDIHDQIQNAAFMYPPNPWKEISHEAIDLINLLQVKMRKRYSDKTL
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 LSERVSIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

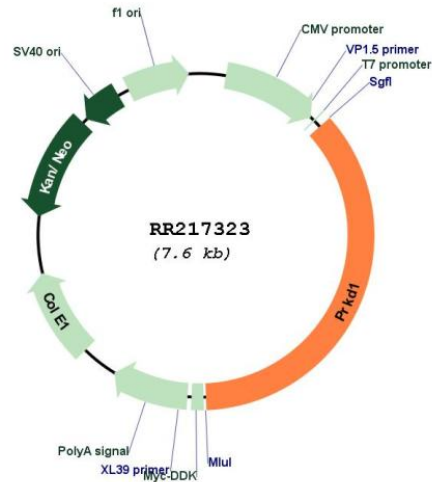
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001276715

ORF Size: 2754 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_001276715.1](#), [NP_001263644.1](#)

RefSeq Size: 2757 bp

RefSeq ORF: 2757 bp

Locus ID: 85421

UniProt ID: [Q9WTQ1](#)

Cytogenetics: 6q22

MW: 102 kDa

Gene Summary: serine/threonine kinase; may play a role in the regulation of physiological events such as ion and protein secretion; may mediate cell proliferation or differentiation through participation in various signalling cascades [RGD, Feb 2006]