

## Product datasheet for **RN217323**

### Prkd1 (NM\_001276715) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prkd1 (NM_001276715) Rat Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >RN217323 representing NM\_001276715  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCGCCCTCCGCTACTACGGCCCTAGCCCGCTGCTGCCCGCCGGCCGCTGTGGCCGCCGCC  
 CTGCTGCGCTGGTCCCGGCTCCGGGCCGCGCCCTTCCAGCGCTGGGCGGCCCGCCGGCGGGGCAT  
 CTCGTTCCATCTGCAGATCGGCCTGAGCCGCGAGCCGGTCTGCTCCTTCAGACTCCTCTGGCGACTAC  
 AGCCTGGCGCATGTCCGGGAGATGGCTTCTCCATCGTGGACCAGAAGTCCCTGAATGTGGCTTCTATG  
 GACTCTATGACAAGATCTGCTTTCCGTCACGATCCTGCCTCTGAAAACATCCTTCAGCTGGTAAAAAT  
 CGCAAGTGACATTCAGGAGGGCGATCTTATTGAAGTGGTCTGTGAGCTTCAGCCACCTTCGAAGACTTC  
 CAGATCCGGCCTCAGCTCTCTTCGTTTATTACAGAGCCCTGCTTCTGTGATCACTGTGGAGAAA  
 TGCTGTGGGACTGGTGCCTAAGGCCATAAATGTGAAGGATGTGGCCTGAATTACCATAAGAGATGTGC  
 ATTTAAAAATCCCAACAATTGCAGTGGAGTGAGAAGGAGAAGGCTCTCAAATGTTTCCCTCACTGGACTG  
 GGTAATGTCCGCACAGCTGTGCGGAGTCTCCACCAGTGCCCGCATGAGCCTCTACTGTCTCCTGTGA  
 GCCCTGGCTTTGAGCAAAAGTCTCCATCTGAGTCAATTCGCGTGTGAGAAGAGGTCAAATTTCTAGTC  
 ATATGTTGGACGGCCGATTACGCTCGACAAGCTCCTGATGTCTAAGGTGAAGGTGCCACACACCTTTGTC  
 ATCCACTCCTACACACGGCCACGGTCTGCCAGTCTGTGAAGAAGCTCCTCAAGGCGCTTCTCCGGCAGG  
 GTTTGCAGTGCAAAGATTGCCGATTCAACTGTCACAAACGCTGTGCACAAAAGTACCAACAACCTGCTT  
 GGGCGAAGTGACCATCAATGGAGAATTGCTTAGCCCTGGGCGAGAGTCTGATGTTGTCATGGAAGAAGGG  
 AGCGATGACAATGACAGCGAACGGAACAGTGGACTCATGGATGACATGGACGAGGCCATGGTCCAGGACA  
 CTGAGATGGCTTTGGCGGAGGGTACAGAGTGCAGGTGCAGAGATGCAGGATCCAGACGCAGACCAGGAGGA  
 CTCCAACAGAACCATCAGCCCTTCTACGAGCAACAACATACCGCTTATGAGGGTAGTGCAGTCTGTCAAG  
 CACACAAAAGAGGAGAAGCAGCACAGTGTGAAGGAAGGGTGGATGGTCCACTACACCAGCAAGGACACAC  
 TGAGGAAAAGGCATTACTGGAGACTGGACAGCAAAAGCATCACACTCTTCCAAAACGACACAGGCAGCCG  
 GTACTACAAGGAAATTCCTTTATCAGAAATTTTATGTCTGGAACAGCAAAACCTTCAGCATTAAATCCC  
 ACTGGAGTAACCCTCATTGTTTTGAAATCACTACAGCAACGTAAGTGTATTATGTGGGAGAAAACGTGG  
 TCAACCCTTCAAGCCCCCACCACAAACAGCGTCCCCCGAGCGGCATCGGTACCGATGTGGCGAGGAT  
 GTGGGAGGTGCCATCCAGCACGCTCTCATGCCTGTATCCCCAAGGGCTCCTCTGTGGGTTCCGGAACC  
 AACTCACAAAAGATATTTCCGGTGAAGATTTCCGTTTCGAATAGCCAGATTCAGGAAAATGTGGATATCA  
 GCACAGTCTATCAGATTTTCCCGATGAGGTTCTGGGTTCTGGACAGTTCGGAATTTGTTATGGAGGTAA  
 ACATCGTAAAACAGGAAGAGATGTAGCTATTAAGATTATTGACAAATTAAGATTTCCAACAAAACAGAA  
 AGTCAGCTTCGTAATGAGGTTGCAATTTTACAGAACCTTCATCACCCCTGGTGTGTAATTTGGAGTGTA  
 TGTTTGAGACGCCTGAAAGAGTGTGTTGTTATGGAAAACTCCATGGAGACATGCTGGAGATGATCCT  
 GTCAAGTGAAGGGCAGGTTGCCAGAACATAACGAAGTTTTTAATTACTCAGATACTAGTGGCTTTG  
 CGACATCTTCAATTTAAAAACATCGTTCCTGTGACCTCAAGCCAGAAAATGTGTTGCTGGCATCAGCAG  
 ACCCTTCCCTCAGGTGAAACTTTGTGATTTGGTTTTGCCCGGATCATTGGCGAGAAGTCTTCCGGAG  
 ATCAGTGGTGGGTACCCAGCCTACCTGGCACCTGAGGTTCTGAGGAACAAGGGCTATAACCCGCTCGTA  
 GACATGGTCTGTTGGGTCATCATCTATGTGAGCCTGAGTGGACCTTCCCTTTTAATGAAGATGAAG  
 ATATCCACGATCAGATCCAGAACGCAGCCTTCATGTATCCACCAATCCCTGGAAGGAGATTTCTCATGA  
 AGCCATTGATCTTATCAATAACTTGCTACAAGTAAAAAGAGAAAACGCTACAGTGTGGACAAGACCTTG  
 AGTCACCCCTGGCTACAGGACTACCAGACCTGGTTAGATTTACGCGAGCTGGAATGCAGAATGGAGAAC  
 GCTATATTACCCATGAAAGCGATGACTCGAGGTGGGAACAGTATGCAGGCGAGCAGGGACTGCAGTATCC  
 CGCGCACCTGATCAATCTGAGTGTAGCCATGGCGACAGTCTGAGGCTGAAGAGAGAGAGATGAAAGCC  
 CTCAGTGAGCGTGCAGCATCCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001276715
<b>Insert Size:</b>	2757 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>NM_001276715.1, NP_001263644.1</u>
<b>RefSeq Size:</b>	2757 bp
<b>RefSeq ORF:</b>	2757 bp
<b>Locus ID:</b>	85421
<b>UniProt ID:</b>	<u>Q9WTQ1</u>
<b>Cytogenetics:</b>	6q22
<b>Gene Summary:</b>	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]