

Product datasheet for **RR205182**

Prkci (NM_032059) Rat Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Prkci (NM_032059) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Prkci |
| Synonyms: | Pkcl |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RR205182 representing NM_032059
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAGCCAGAGGGACAGCAGCACCATGTCTCACACGGTCGCGTGGCGGGCGGGGACCATTCCC
 ACCAGGTCGGGTGAAAGCCTACTACCGGGGATATTATGATAACACACTTCGAGCCTTCATCTCCTT
 TGAAGGACTTTGCACTGAGGTTGAGATATGTGTTCTTTTGACAATGAGCAGCCATTACCATGAAATGG
 ATAGATGAGGAAGGAGACCCGTCACAGTGTCTTCTCAGTTGGAGTTGGAAGAGGCTTTCAGGCTGTATG
 AGTTGAACAAGGATTCTGAACCTCTGATCCACGTGTTCCCGTGTGTACCAGAGCGTCCTGGAATGCCTTG
 CCCAGGGGAAGACAAGTCCATTTACCGCAGAGGGCGCGCAGGTGGAGAAAGCTGTATTGTGCAATGGC
 CACACTTTTCAAGCCAAACGCTTAAACAGGCGTCCCACTGTGCCATCTGCACAGACAGGATCTGGGGAC
 TTGGACGACAAGGATATAAATGCATCAACTGCAAAGTCTGGTTCATAAGAAGTCCACAAGCTTGTCCAC
 AATTGAGTGTGGCGGCATTCTTTGCCACCGAAACCCATGATGCCAATGGACCAGTCATCCATGCACCCA
 GACCACACACAGACAGTAATCCATATAATCCTTCAAGTCATGAGAGTTTGGACCAAGTTGGTGAAGAAA
 AGGAGGCAATGAACACCAGGGAGAGTGGGAAGGCGTCATCAAGCTTAGGTCTCCAGGATTTGATTTGCT
 TCGAGTTATAGGGAGAGGAAGTTACGCCAAAGTACTGCTGGTTCGATTAAAAAGACAGATCGCATTAT
 GCAATGAAGGTTGTGAAGAAAGAGCTCGTCAATGACGATGAGGATATTGATTGGGTACAGACAGAAAAGC
 ATGTGTTTGAGCAGGCGTCCAATCACCTTTCTTGTGGTCTGCATTCTGCTTCCAGACAGAAAAGCAG
 GCTGTTTTTGTGATAGAATATGTGAATGGAGGGGATCTCATGTTTCATATGCAGCGCAAAGAAAACCT
 CCTGAAGAACATGCCAGGTTTTACTCAGCAGAAATCAGTCTAGCACTAAATATCTTCATGAGCGAGGGA
 TAATTTATAGAGATTTGAAGTTGGACAATGTACTGCTGGACTGAAGGACACATCAAATCACTGACTACT
 CGGCATGTGTAAGGAAGGATTACGGCCCGGAGATACAACCAGCACCTTCTGTGGGACTCCCAATTACATT
 GCTCCTGAGATCTTAAGAGGAGAAGACTATGGCTTCAGCGTTGACTGGTGGGCTCTTGGAGTACTCATGT
 TTGAGATGATGGCGGAAGGTTCTCCATTTGATATCGTTGGGAGCTCTGACAATCTGACCAAAACACAGA
 GGATTATCTGTTCCAAGTCATTTGGAGAAGCAGATTCGCATACCGCGCTCCCTGTCTGTGAAAGCAGCA
 AGTGTGCTGAAGAGTTTCTCAACAAGGACCCAAAGAACGATTGGGTTGTACCCTCAAAGTGGATTTG
 CTGACATCAAGGACACCCATTCTCCGTAATGTGGATTGGGACATGATGGAGCAGAAGCAAGTGGTTCC
 GCCCTTAAACCAACATTTCTGGAGAATTTGGTTTGGATAACTTTGACTCCCAGTTTACCAACGAACCA
 GTCCAGCTCACTCCAGATGATGATGACATCGTGAGGAAGATTGATCAGTCTGAATTTGAAGTTCGAGT
 ATATCAACCTCTCTTGATGTCTGCAGAAGAGTGTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205182 representing NM_032059
 Red=Cloning site Green=Tags(s)

MPTQRDSSTMSHTVACGGGGDHSQVRVKAYYRGDIMITHFEPISFEGLCSEVRDMCSFDNEQPFMTKW
 IDEEGDPTVSSQLELEEAFLYELNKDSELLIHVFPVPERPGMPCPGEDKSIYRRGARRWRKLYCANG
 HTFQAKRFNRRAHCAICTDRIWGLGRQYKINCKLLVHKKCHKLVITIEGRHSLPPEPMPMDQSSMHP
 DHTQTVIPYNPSSHESLDQVGEEKEAMNTRRESGKASSSLGLQDFDLLRVIGRGSYAKVLLVRLKKTDRY
 AMKVVKKELVNDDIDWVQTEKHVFEQASNHFFLVGLHSCFQTESRFFVIEYVNGDLMFHMQRQRKL
 PEEHARFYSAEISLALNYLHERGIIYRDLKLDNVLLDSEGHKLDYGMCKEGLRPGDSTTFCTGTPNYI
 APEILRGEDYGFVSDWWALGVLFMFEMAGRSPFDIVGSSDNPQNTEDYLFQVILEKQIRIPRSLSVKAA
 SVLKSFLNKPDKERLGHPTQGFADIQGHFFRNVDWDMMEQKQVVPFKPNISGEFGLDNFDSQFTNEP
 VQLTPDDDDIVRKIDQSEFEGFEYINPLLSAEECV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

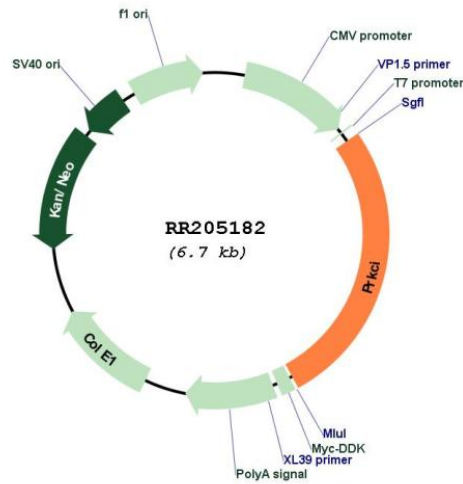
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_032059

ORF Size: 1788 bp

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| 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: | <ol style="list-style-type: none">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_032059.1 , NP_114448.1 |
| RefSeq Size: | 4501 bp |
| RefSeq ORF: | 1791 bp |
| Locus ID: | 84006 |
| UniProt ID: | F1M7Y5 |
| Cytogenetics: | 2q24 |
| MW: | 68.3 kDa |
| Gene Summary: | member of the atypical subgroup of PKCs that do not contain the calcium binding domain and possess only one cysteine-rich region; plays a critical role in controlling cell growth and cell survival; enhances Rab2-mediated vesicle budding [RGD, Feb 2006] |