

## Product datasheet for **RR207075**

### **Pkn1 (NM\_017175) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pkn1 (NM_017175) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pkn1
Synonyms:	PAK-1; Prkcl1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR207075 representing NM\_017175  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGGCAGCCCGTGCAGAGTGAACCTCGCAGCTGGTCACTGCTGGAGCAGCTGGTCTGGCTGGG  
 CAGACCTGGCAGCCCTGGGGTGCAGCAGCAGCTGGAGTTAGAGCGAGAGCGGCTGAAGCGGAAATCCG  
 AAAAGAGCTGAAGCTGAAGGAGGGCGCTGAGAACCTGAGCGGGCCACCACTGACCTGGGCCGAGCTTG  
 GCCCTGTGGAAGTGTCTGCTGAGGGGCTCCGCTAGACGGCTTGACTTGCTGCACCAGCAGCTGCAGGAGC  
 TGCATGCACATGTGGTGTGCCGACCCTACAGCGGGAGTGATGCTCCCAATCCCTTGACAGGGGAGC  
 CCCTGTCTGTCTACCAACCTGAGCCGAGTGGCTGGCCTGGAGAAGCAGCTGGCCATTGAGCTCAAG  
 GTCAAACAGGGGGCAGAAAACATGATCCAGACCTACAGCAATGGCAGCACAAGGACCGGAAGCTGTGT  
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 GCTACAAGCACTCCAGGCTGGCCAGCTGGAGAGTCAGGCAGCTCCTGATGAGGCCACGGAGATCCAGAC  
 CTGGGAGCCGTAGAGCTACGCATTGAGGAGCTACGACACCAATTTTCGAGTAGAGCATGCAGTGGCAGAAG  
 GCGCCAAGAATGTCTGCGTCTGCTCAGTGTGCAAAGGCCCCAGACCGCAAAGCAGTCAGCGAGGCTCA  
 GGAAATTTGACTGAGTCCAACCAAGAGCTGGGCTTGGTGCAGGAGTCACTGGAGAGGCGCTTGGGGAA  
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 GTGCAATACTGCCTGGGCCCTTCCCTGCCACTCACTACAGCACCTTGAGCAAGCCTGCACCACTCACAGG  
 GACCTGGAAGTACGAGTGGTGGCTGCAAAAACCTTCCCGAGACCATCCCTTGGAGCCCTCCCCCTCA  
 GTCGGGCATCTGGACCCCGACAGCCGACTCCTTCTGAGTCGTCAGCTCGGGCCCTTTACAACC  
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 GCTCAAGCTGGACAACACTGTGGTGGGGCAACAGCCTGGAAGCCATGCGGCCCAATGCCTGGGACCCAG  
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 CCCACGAATCCACCACCTCTCCAGAGCTGCCTTACAGAGCCAGGAGACCCAGGCCCTGGCCTGTGCAG  
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 GGAAAGGTGCTGTGCTGAATTCACCTCCAGTGGGGAGCTCTTGGCATTAAAGCCTTGAAGAAAGGTG  
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 TACTCAGCCGGTGGGACTTGTGCTGCATATCCACAGCGACGTGTTCTCAGAGCCTCGGGCTGTCTTCT  
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 GGACAATTTGCTCCTGGATACTGAGGGCTACGTCAGATCGCAGACTTTGGCCTTGCAGAGGGGGATG  
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 TTCCTGTCTGCGGAGGCCATCGGCATCATGAGAAGGCTACTGCGGAGGAACCCAGAGCGGAGGTTGGGAT  
 CCACTGAGCGTGTGCAGAAGATGTGAAAAACAGCCTTTCTCAGGACTCTGGACTGGGATGCCCTGCT  
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 GAGTTCACTGGGAGGCCCCCACTGAGCCCTCCCGGGATGCACGGCCCTGACAGCTCGGGAGCAGG  
 CGCCTTCGGGATTTGACTTTGTGGCAGGAGGCTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR207075 representing NM\_017175  
 Red=Cloning site Green=Tags(s)

MAGDAVQSEPRSWSLLEQLGLAGADLAAPGVQQQLELERERLKRKELKKEGAENLRRATTDLGRSL  
 APVELLLRGSARRDLLHQQLQELHAHVLPDPTAGSDAPQSLAEGSPVCSSTNL SRVAGLEKQLAIELK  
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 SFTLELERARELELAVFWRDQRGLCALFKLEDFLDNERHEVQLDMEPQGCLVAEVTFRNPIIERIPRL  
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 GKVLLSEFHSSGELFAIKALKKGDIVARDEVESLMCEKRILATVTRAGHPFLVNLFGCFQTEPHVCFVME  
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 FLSAEAI GIMRRLRRNPERRLGSTERDAEDVKKQPFRTLDWDALLARRLPPPVPTLSGRTDVSNFDE  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

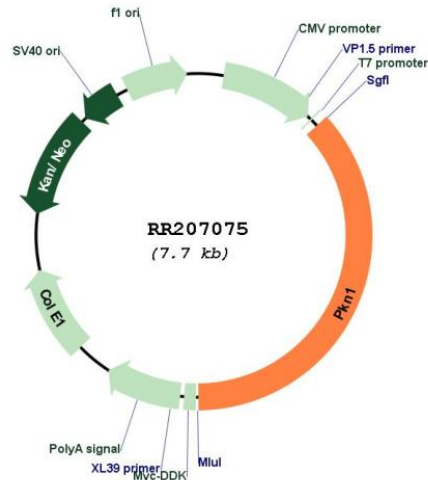
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_017175

ORF Size: 2838 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\\_017175.2](#), [NP\\_058871.2](#)

RefSeq Size: 3087 bp

RefSeq ORF: 2841 bp

Locus ID: 29355

UniProt ID: [Q63433](#)

Cytogenetics: 19q11

**MW:** 104.5 kDa

**Gene Summary:** displays phosphorylation dependent protein kinase activity [RGD, Feb 2006]