

Product datasheet for **MC217728**

Pctk1 (BC011069) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pctk1 (BC011069) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pctk1
Synonyms:	Crk5; Pctaire1; Pctk1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC011069
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATCGGATGAAGAAGATCAAACGGCAGCTGTCAATGACACTCCGAGGGGGCCGAGGCATAGATAAGA
 CCAATGGTGTCCCTGAGCAGATAGGCCTGGATGAGAGTGGTGGCGTGGTGGCAGTGACCTTGGAGAAGC
 TCCACCCGATTGCCCTGGGGAGCTTCGCTCTGTTCCGGGGCCCACTCAGCTCTGCACCAGAGATTGTG
 CACGAGGACATGAAGATGGGATCTGATGGGGAGAGTGACCAGGCTTCAGCCACATCCTCAGATGAGGTGC
 AGTCTCCAGTGAGAGTGCGCATGCGCAACCACCCCCACGCAAGATCTCCACTGAGGACATCAACAAACG
 CCTGTCACTACCAGTGACATACGGCTGCCTGAGGGCTACCTTGAGAAGCTGACCCTCAATAGCCCCATC
 TTTGATAAGCCTTTAGCCGGCCCTCCGCCGAGTCAGTTTGTCTGAGATTGGCTTTGGAAAAGTGGAGA
 CCTACATCAAGCTAGACAAGCTGGGTGAGGGTACCTATGCCACTGTCTACAAAGGCAAAAGCAAGCTCAC
 AGACAACCTTGTAGCACTTAAGGAGATCAGACTGGAACACGAAGAAGGGGCACCCTGTACTGCTATCCGG
 GAAGTATCCCTGCTTAAGGACCTCAAGCATGCCAACATCGTCACACTACATGACATTATCCACACAGAGA
 AGTCCCTCACACTTGTCTTTGAATACTTGACAAGGACCTGAAGCAGTACCTGGATGACTGTGAAATGT
 CATCAACATGCACAATGTGAAACTGTTCCCTGTTCCAGTTGCTCCGTGGCCTGGCCTACTGCCACAGGCAG
 AAGGTGTACACCGAGACCTCAAGCCCCAGAACCTACTCATCAACGAGAGGGGAGAGCTCAAAGTGGCAG
 ATTTTGGCCTGGCTCGTGCCAAGTCAATTCCTACTAAAACATACTCCAACGAAGTGGTGACTGTGGTA
 CCGGCCCTGACATCCTACTTGGGTCCACAGACTACTTACCCAAATTGACATGTGGGGTGTAGGCTGC
 ATCTTCTATGAGATGGCCACCGCCGGCCCTCTTCCAGGCTCCACAGTGAAGAAGCAGCTGCACCTCA
 TCTTCCGCATTTGGGAACCCCAACTGAGGAGACATGGCCAGGTATCCTGTCCAATGAGGAGTTTAGAAC
 ATACAACCTACCCCAAGTACCGAGCCGAGGCCCTTCTGAGCCATGCACCCGACTTGATAGCGATGGAGCT
 GACCTCCTCACCAAGCTGCTGCAGTTTGGGGTGCATCGGATCTCTGCTGAGGATGCCAGGAAACATC
 CATTCTTCTCAGCTTGGGGGAGCGGATCCACAAACTTCTGACACTACTTCCATATTTGCACTAAAGGA
 GGTACAGCTACAAAGGAGGCCAACATTCCGTCCACTTCTATGCCTGACTCAGGCAGGCCAGCTTCCGT
 GTGGTGGATACCGAGTTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC011069

Insert Size: 1491 bp

OTI Disclaimer: 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).

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: [BC011069](#), [AAH11069](#)

RefSeq Size: 2815 bp

RefSeq ORF: 1490 bp

Locus ID: 18555

Cytogenetics: X 16.18 cM

Gene Summary: Protein kinase that plays a role in vesicle-mediated transport processes and exocytosis. Can phosphorylate CCNY at 'Ser-336' (in vitro) (By similarity). Plays a role in the regulation of insulin secretion in response to changes in blood glucose levels. Regulates GH1 release by brain neurons. Phosphorylates NSF, and thereby regulates NSF oligomerization. Required for normal spermatogenesis. Regulates neuron differentiation and dendrite development. [UniProtKB/Swiss-Prot Function]