

## Product datasheet for **MC216934**

### **Cdk16 (NM\_011049) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdk16 (NM_011049) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cdk16
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:** >MC216934 representing NM\_011049  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGATCGGATGAAGAAGATCAAACGGCAGCTGTCAATGACACTCCGAGGGGGCCGAGGCATAGATAAGA  
CCAATGGTGTCCCTGAGCAGATAGGCCTGGATGAGAGTGGTGGCGTGGTGGCAGTGACCTTGAGAAGC  
TCCCACCCGATTGCCCTGGGGAGCTTCGCTCTGTTCCGGGGCCCACTCAGCTCTGCACCAGAGATTGTG  
CACGAGGACATGAAGATGGGATCTGATGGGGAGAGTGACCAGGCTTCAGCCACATCCTCAGATGAGGTGC  
AGTCTCCAGTGAGAGTGCGCATGCGCAACCACCCCCACGCAAGATCTCCACTGAGGACATCAACAAACG  
CCTGTCACTACCAGTGACATACGGCTGCCTGAGGGCTACCTTGAGAAGCTGACCCTCAATAGCCCCATC  
TTTGATAAGCCTTTAGCCGGCCCTCCGCCGAGTCAGTTGTCTGAGATTGGCTTTGGAAAAGTGGAGA  
CCTACATCAAGCTAGACAAGCTGGGTGAGGGTACCTATGCCACTGTCTACAAAGGCAAAGCAAGCTCAC  
AGACAACCTTGTAGCACTTAAGGAGATCAGACTGGAACACGAAGAAGGGGCACCCTGTACTGCTATCCGG  
GAAGTATCCCTGCTTAAGGACCTCAAGCATGCCAACATCGTCACACTACATGACATTATCCACACAGAGA  
AGTCCCTCACACTTGTCTTTGAATACTTGACAAGGACCTGAAGCAGTACCTGGATGACTGTGAAATGT  
CATCAACATGCACAATGTGAAACTGTTCCCTGTTCCAGTTGCTCCGTGGCCTGGCCTACTGCCACAGGCAG  
AAGGTGTACACCAGACCTCAAGCCCCAGAACCTACTCATCAACGAGAGGGGAGAGCTCAAAGTGGCAG  
ATTTTGGCCTGGCTCGTGCCAAGTCAATTCCTACTAAACATACTCCAACGAAGTGGTGACTGTGGTA  
CCGGCCCCCTGACATCCTACTTGGGTCCACAGACTACTTACCCAAATTGACATGTGGGGTGTAGGCTGC  
ATCTTCTATGAGATGGCCACCGCCGGCCCTCTTCCAGGCTCCACAGTGAAGAAGCAGCTGCATTCA  
TCTTCGCATTTTGGGAACCCCAACTGAGGAGACATGGCCAGGTATCCTGTCCAATGAGGATTTAGAAC  
ATACAAC TACCCCAAGTACCGAGCCGAGGCCCTTCTGAGCCATGCACCCGACTTGATAGCGATGGAGCT  
GACCTCCTCACCAAGCTGCTGCAGTTTGGGGTGCATCGGATCCTGCTGAGGATGCCAGGAAACATC  
CATTCTTCTCAGCTTGGGGGAGCGGATCCACAAACTTCTGACACTACTTCCATATTTGACTAAAGGA  
GGTACAGCTACAAAGGAGGCCAACATTCGGTCCACTTCTATGCCTGACTCAGGCAGGCCAGCTTCCGT  
GTGGTGGATACCGAGTTCTAA

**ACGGT**ACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_011049

**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:** [NM\\_011049.5](#), [NP\\_035179.1](#)

**RefSeq Size:** 3123 bp

**RefSeq ORF:** 1491 bp

**Locus ID:** 18555

**UniProt ID:** [Q04735](#)

**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]  
Transcript Variant: This variant (1) represents the shorter transcript and encodes the longer protein (isoform 1).