

Product datasheet for **MR207960**

Cdk16 (NM_011049) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk16 (NM_011049) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdk16
Synonyms:	Crk5; Pctaire1; Pctk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR207960 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCGGATGAAGAAGATCAAACGGCAGCTGTCAATGACACTCCGAGGGGGCCGAGGCATAGATAAGA
 CCAATGGTGTCCCTGAGCAGATAGGCCTGGATGAGAGTGGTGGCGTGGTGGCAGTGACCTTGGAGAAGC
 TCCACCCGATTGCCCTGGGGAGCTTCGCTCTGTTCCGGGGCCCACTCAGCTCTGCACCAGAGATTGTG
 CACGAGGACATGAAGATGGGATCTGATGGGGAGAGTGACCAGGCTTACGCCACATCCTCAGATGAGGTGC
 AGTCTCCAGTGAGAGTGCGCATCCGCAACCACCCCCACGCAAGATCTCCACTGAGGACATCAACAAACG
 CCTGTCACTACCAGTGACATACGGCTGCCTGAGGGCTACCTTGAGAAGCTGACCCTCAATAGCCCCATC
 TTTGATAAGCCTTTAGCCGGCCCTCCGCCGAGTCAGTTGTCTGAGATTGGCTTTGGAAAAGTGGAGA
 CCTACATCAAGCTAGACAAGCTGGGTGAGGGTACCTATGCCACTGTCTACAAAGGCAAAGCAAGCTCAC
 AGACAACCTTGTAGCACTTAAGGAGATCAGACTGGAACACGAAGAAGGGGCACCCTGACTGCTATCCGG
 GAAGTATCCCTGCTTAAGGACCTCAAGCATGCCAACATCGTCACACTACATGACATTATCCACACAGAGA
 AGTCCCTCACACTTGTCTTTGAATACTTGACAAGGACCTGAAGCAGTACCTGGATGACTGTGAAATGT
 CATCAACATGCACAATGTGAAACTGTTCCCTGTTCCAGTTGCTCCGTGGCCTGGCCTACTGCCACAGGCAG
 AAGGTGTACACCGAGACCTCAAGCCCCAGAACCTACTCATCAACGAGAGGGGAGAGCTCAAAGTGGCAG
 ATTTTGGCCTGGCTCGTGCCAAGTCAATTCCTACTAAAACATACTCCAACGAAGTGGTGACTGTGGTA
 CCGGCCCCCTGACATCCTACTTGGGTCCACAGACTACTTACCCAAATTGACATGTGGGGTGTAGGCTGC
 ATCTTCTATGAGATGGCCACCGCCGGCCCTTCCCAGGCTCCACAGTGAAGAAGCAGCTGCATTCA
 TCTTCCGCATTTGGGAACCCCAACTGAGGAGACATGGCCAGTATCCTGTCCAATGAGGAGTTTAGAAC
 ATACAAC TACCCCAAGTACCGAGCCGAGGCCCTTCTGAGCCATGCACCCGACTTGATAGCGATGGAGCT
 GACCTCCTCACCAAGCTGCTGCAGTTTGGGGTGCATCGGATCTCTGCTGAGGATGCCAGGAAACATC
 CATTCTTCTCAGCTTGGGGGAGCGGATCCACAAACTTCTGACACTACTTCCATATTTGCACTAAAGGA
 GGTACAGCTACAAAGGAGGCCAACATTCGGTCCACTTCTATGCCTGACTCAGGCAGGCCAGCTTCCGT
 GTGGTGGATACCGAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207960 protein sequence
 Red=Cloning site Green=Tags(s)

MDRMKKIKRQLSMTLRGGRGIDKTNVPEQIGLDESGGGGSDLGEAPTRIPGELRSVRGPLSSAPEIV
 HEDMKMGSDGESDQASATSSDEVQSPVVRIRNHPPRKISTEDINKRLSLPADIRLPEGYLEKLTLSPI
 FDKPLSRRLRRVSLSEIFGKLETYIKLDKLGEGTYATVYKGSKLTDLNVALKEIRLEHEEGAPCTAIR
 EVSLLKDLKHANIVTLHDIHTEKSLTLVFEYLDKDLKQYLDCCGNVINMHNVKLFLFQLLRGLAYCHRQ
 KVLHRDLKPQNLLINERGELKLADFGLARAKSIPTKYSNEVTLWYRPPDILLGSTDYSTQIDMWGVGC
 IFYEMATGRPLFPGSTVEEQLHFIFRILGTPTEETWPGILSNEEFRTYNYPKYRAEALLSHAPRLSDGA
 DLLTKLLQFEGRNRI SAEDARKHPFFLSLGERIHKLPDTSIFALKEVQLQKEANIRSTSMPDSGRPAFR
 VVDFEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_011049

ORF Size: 1491 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_011049.1](#), [NM_011049.2](#), [NM_011049.3](#), [NM_011049.4](#), [NM_011049.5](#), [NP_035179.1](#)

RefSeq Size: 3042 bp

RefSeq ORF: 1491 bp

Locus ID: 18555

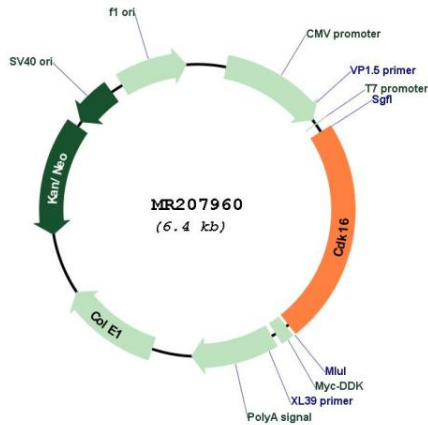
UniProt ID: [Q04735](#)

Cytogenetics: X 16.18 cM

MW: 55.9 kDa

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]

Product images:



Circular map for MR207960