

## Product datasheet for **RR200274**

### **Cdk16 (NM\_031077) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdk16 (NM_031077) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdk16
Synonyms:	Pctk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR200274 representing NM\_031077  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTACACAAATGGATACGATGAAGAAATATATTATTGGGGAAAGAGAGTGTCTTGACTCCAAAGG  
 CCTGGCCTTTCCCTCACTCTGCACCAGAGATTGTCATGAAGACATGAAGATGGGATCTGATGGGGAGAG  
 TGACCAGGCTTCAGCCACATCCTCAGATGAGGTGCACTCTCCAGTGAGAGTGCAGTACCGCAACCC  
 CCACGCAAGATCTCCACTGAGGATATCAACAAATGCCTGTCACTACCAGCTGACATACGGCTGCCTGAGG  
 GCTACCTTGAGAAGCTGACCCTCAATAGCCCCATCGGTGATAAGCCTTTAGCCGGCGCCTCCGGCCAGT  
 CAGCTTGTCTGAGATTGGCTTTGGAAAAGTGGAGACCTACATCAAAGTACAGCTGGGTGAGGGTACC  
 TATGCCACTGTCTACAAAGGCAAAGCAAGCTCACAGACAACCTTGTAGCACTTAAGGAGATCAGACTGG  
 AACACGAAGAAGGGGCACCCTGCACTGTATCCGGGAAGTATCCCTGCTTAAGGACCTCAAGCATGCCAA  
 CATCGTCACACTACATGACATTATCCACACAGAGAAGTCCCTCACCTTGTCTTTGAATACTTGGACAAG  
 GACCTGAAGCAGTACCTGGATGACTGTGAAATGTCATCAACATGCACAATGTGAAACTGTTCTGTTC  
 AGTTGCTCCGTGGCTGGCTACTGCCACAGGCAGAAGGTGTACACCGAGACCTCAAGCCCCAGAACCT  
 ACTCATCAACGAGAGGGGAGAGCTCAAAGTGGCAGACTTTGGCCTGGCTTACGCCAAGTCAATTCCTACT  
 AAAACATACTCCAACGAAGTGGTACACTGTGGTACCGGCCCCCTGACATCTTACTTGGGTCCACAGACT  
 ACTCCGGCCAAATTGACATGTGGGGTGTGGCTGCATCTTTATGAGATGGCCACAGGCCGGCCCTCTT  
 CCCAGGCTCCACAGTGAAGAACAGCTGCATCTCCGATTTTGGGAACCCCAACTGAGGACACA  
 TGGCCAGGTATCCTGTCCAATGAAGAGTTAGAACAACAACACCCCAAGTACCGAGCCGAGGCCCTTC  
 TGAGGCATGCACCCGACTTGAATGCGATGGAGCTGACCTCCTACCAAGCTGCTGACGTTTGGGGTTCG  
 CAATCGGATCTCTGCTGAGGATGCCATGAAACATCCATTTCTCAGCTTGGGGGAGCGGATCCACAAA  
 CTTCTGACACTACTTCCATATTTGCACTAAAGGAGGTACAGCTACAAAAGGAGGCCAACATTGGTCCA  
 CTTCTATGCCTGACTCAGGCAGGCCAGCTTTCCGTGTGGTGGATACCGAGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200274 representing NM\_031077  
 Red=Cloning site Green=Tags(s)

MYTNGYDEEIIYYIGGKRVFLTPKAWPFPHPHSAPEIVHEDMKMGSDGESDQASATSSDEVQSPVVRMRNHP  
 PRKISTEDINKLSLPADIRLPEGYLEKLTNSPIGDKPLSRRLRPVSLSEIGFGKLETYIKLDKLGEGT  
 YATVYKGGKSKLTDNLVALKEIRLEHEEGAPCTAIREVSLKDLKHANIVTLHDIHTEKSLTLVFEYLDK  
 DLKQYLLDDCGNVINMHNKLFQLLRGLAYCHRQKVLHRDLKPQNLLINERGELKLADFLAYAKSIPT  
 KTYSNVTLWYRPPDILLGSTDYSGQIDMWVGCIFYEMATGRPLFPGSTVEEQLHFIFRILGTPTEDT  
 WPGILSNEEFRTYNPKYRAEALLRHAPRLECDGADLLTKLLQFEGRNRISAEDAMKHPFFLSLGERIHK  
 LPDTSIFALKEVQLQKEANIRSTSMPDSGRPAFRVVDTEF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2428\\_g06.zip](https://cdn.origene.com/chromatograms/ja2428_g06.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_031077

**ORF Size:** 1383 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

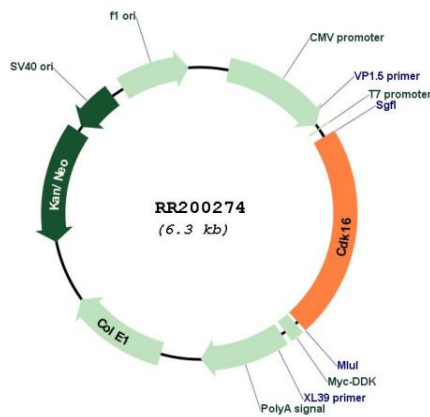
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_031077.1, NP\\_112339.1](#)  
 RefSeq Size: 3111 bp  
 RefSeq ORF: 1386 bp  
 Locus ID: 81741  
 UniProt ID: [Q63686](#)  
 Cytogenetics: Xq11  
 MW: 53 kDa  
 Gene Summary: cyclin-dependent kinase related protein that may function in differentiation [RGD, Feb 2006]

**Product images:**



Circular map for RR200274