

## Product datasheet for **RR200072**

### Cdk10 (NM\_001109936) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cdk10 (NM\_001109936) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cdk10  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR200072 representing NM\_001109936  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAGGTGGACCTGGAGTCGGATCAGATCCGACTGAAGTGTATCCGTAAGGAAGGTTTCTTCACCG  
TGCCCTCCAGAACACAGGCTCGGAAGATGCCGAAGCGTTAAGGAGTTCGAGAAGCTGAACCGGATTGGCGA  
GGGCACCTATGGCATTGTGTATCGAGCCGGGATACGCAGACGGATGAAATTGTTGCCCTGAAGAAGGTG  
CGGATGGACAAAGAGAAAAGATGGCATCCCCATCAGCAGCCTGCGTGAAATCACACTGCTCCTGCGTCTCC  
GCCATCCCAACATTGTGGAGCTGAAGGAGTGGTGTGGCAACCACTGGAGAGCATCTTCTGTCAT  
GGGTTACTGTGAACAAGATCTGGCCAGCCTATTGGAAAATATGCCAACGCCCTTCTCGGAGGCCAGGTT  
AAGTGCATCCTGCTGCAAGTCTTCAGGCCTTCAGTACCTGCACCGAGCTTCATCCACAGGGACC  
TGAAGGTGTCCAACCTGCTCATGACAGATAAAGGCTGTGTGAAGACAGCCGATTCGACCCTGGCTCGGGC  
CTATGGTGTCCAGTAAAGCCAATGACTCCCAAGGTTGTTACCCTCTGGTACCGAGCCCCAGAGCTGCTG  
CTTGGAACACTACCCAGACTACCAGCATCGACATGTGGGCTGTTGGCTGCATCCTGGCAGAGCTGCTGG  
CCCATAAGCCCTTCTCCCTGGCACTTCGAGATCCACCAGATCGACTTGATCGTACAGCTGTTGGGGAC  
ACCGAGTGAGAATATCTGGCCTGGTTTCTCCAAGCTGCCCTGGCCGGCCAGTACAGCCTGAGGAAACAG  
CCCTACAACAACCTCAAGCACAAGTTCCCATGGCTCTCAGAGGCCGGACTGCGCCTGCTCAACTTCTCT  
TCATGTATGACCTAAGAAAAGGCAACAGCAGGAGACTGCCTGGAGAGTTCTACTTCAAGGAGAAGCC  
CCTACCCTGCGAGCCGGAGCTCATGCCTACCTTCCCCACCACCGTAACAAGCGTGTGCCCCAGCTGCC  
ACTGAGGGGCAGAGCAAACGATGCCGGCCC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR200072 representing NM\_001109936  
Red=Cloning site Green=Tags(s)

MAEVDLESQIRLKCIRKEGFFTPPEHRLGCRSVKEFEKLNRIEGEGTYGIVYRARDTQTDEIVALKKV  
 RMDKEKDGIPISSLREITLLLRHPNIVELKEVVVGNHLESIFLVMGYCEQDLASLLENMPTPFSEAQV  
 KCILLQVLRGLQYLHRSFIIHRDLKVSLLMTDKGCVKTADFLARAYGVPVKPMPKVVTLWYRAPELL  
 LGTTTQTTSIDMWAVGCILAELLAHKPLLPGTSEIHQIDLIVQLLGTPSENIWPGF SKLPLAGQYSLRKQ  
 PYNLKHKFPWLSEAGLRLLNLFMYDPKKRATAGDCLESSYFKEKPLPCEPELMPPTFPHHRNKRAAPAA  
 TEGQSKRCRP

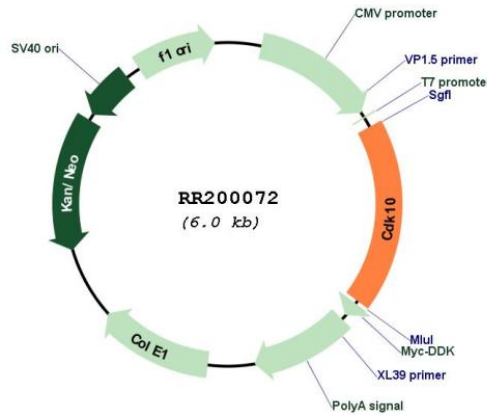
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001109936

<b>ORF Size:</b>	1080 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001109936.1</a> , <a href="#">NP_001103406.1</a>
<b>RefSeq Size:</b>	1668 bp
<b>RefSeq ORF:</b>	1083 bp
<b>Locus ID:</b>	361434
<b>UniProt ID:</b>	<a href="#">Q4KM47</a>
<b>Cytogenetics:</b>	19q12
<b>MW:</b>	40.9 kDa
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the CDK subfamily of the Ser/Thr protein kinase family. The CDK subfamily members are highly similar to the gene products of <i>S. cerevisiae</i> cdc28, and <i>S. pombe</i> cdc2, and are known to be essential for cell cycle progression. The human ortholog has been shown to play a role in cellular proliferation. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]