

## Product datasheet for **RR200073**

### Cdk10 (NM\_001109937) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk10 (NM_001109937) 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:	>RR200073 representing NM_001109937 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGACAAAGAGAAAGATGGCATCCCCATCAGCAGCCTGCGTGAAATCACACTGCTCCTGCGTCTCCGCC  
ATCCCAACATTGTGGAGCTGAAGGAGGTGGTTGTTGGCAACCACCTGGAGAGCATCTTCTGGTCATGGG  
TTACTGTGAACAAGATCTGGCCAGCCTATTGGAAAATATGCCAACGCCCTTCTCGGAGGCCAGGTTAAG  
TGATCCTGCTGCAAGTGCTTCGAGGCCTTCAGTACCTGCACCGAGCTTCATCATCCACAGGGACCTGA  
AGGTGTCCAACCTTGCTCATGACAGATAAGGGCTGTGTGAAGACAGCCGATTTTCGGCCTGGCTCGGGCCTA  
TGGTGTCCAGTAAAGCCAATGACTCCCAAGGTTGTTACCCTCTGGTACCGAGCCCCAGAGCTGCTGCTT  
GGAACTACTACCCAGACTACCAGCATCGACATGTGGGCTGTTGGCTGCATCCTGGCAGAGCTGCTGGCCC  
ATAAGCCCCTTCCCTGGCACTCCGAGATCCACCAGATCGACTTGATCGTACAGCTGTTGGGGACACC  
GAGTGAGAATATCTGGCCTGGTTTCTCCAAGCTGCCCCGGCCGAGTACAGCCTGAGGAAACAGCCC  
TACAACAACCTCAAGCACAAGTCCCATGGCTCTCAGAGGCCGGACTGCGCCTGCTCAACTTCTCTTCA  
TGTATGACCCTAAGAAAAGGGCAACAGCAGGAGACTGCCTGGAGAGTTCCTACTTCAAGGAGAAGCCCCT  
ACCTGCGAGCCGGAGCTCATGCCTACCTTCCCCACCACCGTAACAAGCGTGTGCCCCAGCTGCCACT  
GAGGGCAGAGCAAACGATGCCGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR200073 representing NM\_001109937  
 Red=Cloning site Green=Tags(s)

MDKEKDGIPISLREITLLLRLRHPNIVELKEVVVGNHLESIFLVMGYCEQDLASLLENMPTPFSEAQVK  
 CILLQVLRGLQYLHRSFIIHRDLKVSNLLMTDKGCVKTAADFGLARAYGVPVKPMPKVVTLWYRAPELLL  
 GTTTQTTSIDMWAVGCILAELLAHKPLLPGTSEIHQIDLIVQLLGTSPENIWPGF SKLPLAGQYSLRKQP  
 YNNLKHKFPWLSEAGRLNLFMYDPKKRATAGDCLESSYFKEKPLPCEPELMPFPHHRNKRAAPAAT  
 EGQSKRCRP

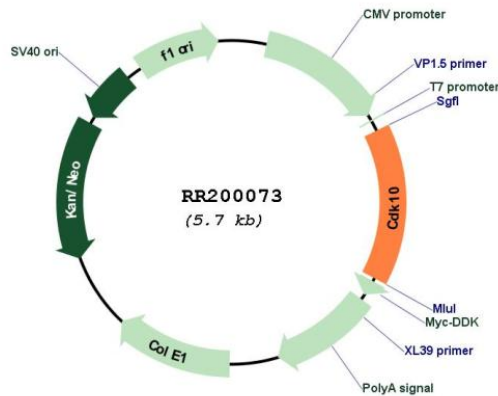
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001109937

<b>ORF Size:</b>	867 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_001109937.1</a> , <a href="#">NP_001103407.1</a>
<b>RefSeq Size:</b>	1629 bp
<b>RefSeq ORF:</b>	870 bp
<b>Locus ID:</b>	361434
<b>UniProt ID:</b>	<a href="#">Q4KM47</a>
<b>Cytogenetics:</b>	19q12
<b>MW:</b>	32.7 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]