

Product datasheet for **RN200073**

Cdk10 (NM_001109937) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cdk10 (NM_001109937) Rat Untagged Clone
Tag: Tag Free
Symbol: Cdk10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >RN200073 representing NM_001109937
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACAAAGAGAAAGATGGCATCCCCATCAGCAGCCTGCGTGAAATCACACTGCTCCTGCGTCTCCGCC
 ATCCCAACATTGTGGAGCTGAAGGAGGTGGTTGTTGGCAACCACCTGGAGAGCATCTTCTGGTCATGGG
 TTAAGTGAACAAGATCTGGCCAGCCTATTGGAAAATATGCCAACGCCCTTCTCGGAGGCCAGGTTAAG
 TGCATCCTGCTGCAAGTGCTTCGAGGCCCTCAGTACCTGCACCGAGCTTCATCATCCACAGGGACCTGA
 AGGTGTCCAACCTTGCTCATGACAGATAAGGGCTGTGTAAGACAGCCGATTTCCGGCTGGCTCGGGCCTA
 TGGTGTTCAGTAAAGCCAATGACTCCCAAGTTGTTACCCTCTGGTACCGAGCCCCAGAGCTGCTGCTT
 GGAAGTACTACCCAGACTACCAGCATCGACATGTGGGCTGTTGGCTGCATCCTGGCAGAGCTGCTGGCCC
 ATAAGCCCTTCTCCCTGGCACTCCGAGATCCACCAGATCGACTTGATCGTACAGCTGTTGGGGACACC
 GAGTGAGAATACTGGCCTGGTTTCTCCAAGCTGCCCTGGCCGGCCAGTACAGCCTGAGGAAACAGCCC
 TACAACAACCTCAAGCACAAGTCCCATGGCTCTCAGAGGCCGGACTGCGCCTGCTCAACTTCTCTTCA
 TGTATGACCTAAGAAAAGGGCAACAGCAGGAGACTGCCTGGAGAGTTCTACTTCAAGGAGAAGCCCT
 ACCCTGCGAGCCGGAGCTCATGCCTACCTCCCCACCACCGTAAACAAGCGTGTGCCCCAGCTGCCACT
 GAGGGGCAGAGCAAACGATGCCGGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001109937
Insert Size: 870 bp



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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:	<ol style="list-style-type: none">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:	<u>NM_001109937.1, NP_001103407.1</u>
RefSeq Size:	1629 bp
RefSeq ORF:	870 bp
Locus ID:	361434
UniProt ID:	<u>Q4KM47</u>
Cytogenetics:	19q12
Gene Summary:	<p>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> <i>cdc28</i>, and <i>S. pombe</i> <i>cdc2</i>, 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]</p> <p>Transcript Variant: This variant (2) uses a different donor splice site at the first exon compared to transcript variant 1, resulting in translation initiation from an in-frame, downstream AUG, and a shorter isoform (2) compared to isoform 1.</p>