

Product datasheet for **RR200071**

Cdk10 (NM_001025722) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk10 (NM_001025722) 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:	>RR200071 representing NM_001025722 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGCTTTCTGTTTGGTAAGCAAGATGCAAGTGATGTCTCAGTGCCAGATATGGGTGAGACACCACT
TGTGCTGTAGCTTCCAGATCCCCACACTGGCTGCCTCTCTTCCAGCTCGGAAGATGCCGAAGCGTTAA
GGAGTTCGAGAAGCTGAACCGGATTGGCGAGGGCACCTATGGCATTGTGTATCGAGCCCGGATACGCAG
ACGGATGAAATTGTTGCCCTGAAGAAGGTGCGGATGGACAAAGAGAAAGATGGCATCCCCATCAGCAGCC
TGCCTGAAATCACACTGCTCCTGCGTCTCCGCCATCCCAACATTGTGGAGCTGAAGGAGGTGTTGTTGG
CAACCACCTGGAGAGCATCTTCTGGTCACTGGGTTACTGTGAACAAGATCTGGCCAGCCTATTGGAAAAT
ATGCCAACGCCCTTCTCGGAGGCCAGGTTAAGTGCATCCTGCTGCAAGTGCTTCGAGGCCCTCAGTACC
TGCACCGGAGCTTCATCATCCACAGGGACCTGAAGGTGTCCAATTGCTCATGACAGATAAGGGCTGTGT
GAAGACAGCCGATTTCCGGCTGGCTCGGGCCTATGGTGTCCAGTAAAGCCAATGACTCCCAAGGTGTT
ACCCTCTGGTACCGAGCCCCAGAGCTGCTGCTTGAAGTACTACCAGACTACCAGCATCGACATGTGGG
CTGTTGGCTGCATCCTGGCAGAGCTGCTGGCCATAAGCCCTTCTCCCTGGCACTTCCGAGATCCACCA
GATCGACTTGATCGTACAGCTGTTGGGGACACCGAGTGAGAATATCTGGCCTGGTTTCTCCAAGTGCCC
CTGGCCGGCCAGTACAGCCTGAGGAAACAGCCCTACAACAACCTCAAGCAAGTTCCTATGGCTCTCAG
AGGCCGGACTGCGCCTGCTCAACTTCTCTTATGATGACCCTAAGAAAAGGGCAACAGCAGGAGACTG
CCTGGAGAGTTTCTACTTCAAGGAGAAGCCCTACCCTGCGAGCCGGAGCTCATGCCTACCTTCCCCAC
CACCGTAAACAGCGTGTGCCCCAGTGCCACTGAGGGGCAGAGCAAACGATGCCGGCCC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR200071 representing NM_001025722
Red=Cloning site Green=Tags(s)

MVAFCLVSKMQVMSQCQIWVRHHLCCSFQIPTLAASLFQLGRCRSVKEFEKLNRI GEGTYGIVYRARDTQ
 TDEIVALKKVRMDKEKDGIPISSLREITLLLRLRHPNIVELKEVVVGNHLESIFLVMGYCEQDLASLLEN
 MPTPFSEAQVKCILLQVLRGLQYLHRSFIIHRDLKVSNLLMTDKGCVKTADFLARAYGVPVKPMTPKVV
 TLWYRAPELLLGTQTTSIDMWAVGCILAELLAHKPLLPGTSEIHQIDLIVQLLGTPESENIWPGFSKLP
 LAGQYSLRKQPYNLKHKFPWLSEAGLRLLNLFMYDPKKRATAGDCLESSYFKEKPLPCEPELMPPTFPH
 HRNKRAAPAATEGQSKRCRP

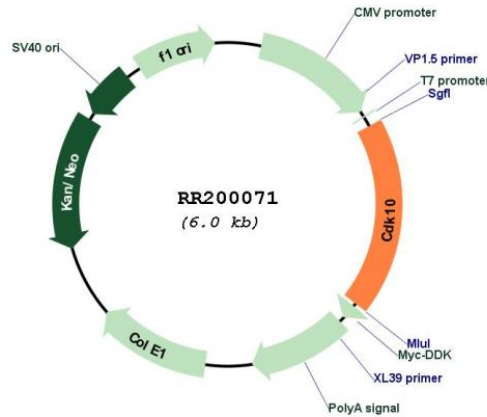
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025722

ORF Size:	1110 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:	<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:	NM_001025722.2 , NP_001020893.2
RefSeq Size:	2119 bp
RefSeq ORF:	1113 bp
Locus ID:	361434
UniProt ID:	Q4KM47
Cytogenetics:	19q12
MW:	42 kDa
Gene Summary:	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]