

## Product datasheet for **RC228221**

### CDK10 (NM\_001160367) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDK10 (NM_001160367) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDK10
Synonyms:	ALSAS; PISSLRE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228221 representing NM_001160367 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAAGGAGAAGGATGGCATCCCCATCAGCAGCTTGCGGGAGATCACGCTGCTGCTCCGCTGCGTC  
ATCCGAACATCGTGGAGCTGAAGGAGGTGGTTGTGGGAACCACTGGAGAGCATCTTCTGGTGATGGG  
TACTGTGAGCAGGACCTGGCCAGCCTCCTGGAGAATATGCCAACCCCTTCTCGGAGGCTCAGGTCAAG  
TGCATCGTGCAGGTGCTCCGGGGCCTCCAGTATCTGCACAGGAACCTCATTATCCACAGGGACCTGA  
AGGTTTCCAACCTGCTCATGACCGACAAGGTTGTGTAAGACAGCGGATTCGGCTGGCCGGGCCTA  
TGGTGTCAGTAAGCCAATGACCCCCAAGGTGGTCACTCTCTGGTACCGAGCCCTGAACTGCTGTTG  
GGAACCACCACGACAGACCACGATCGACATGTGGGCTGTGGGCTGCATACTGGCCGAGCTGCTGGCGC  
ACAGGCCTCTTCTCCCCGGCACTTCCGAGATCCACCAGATCGACTTGATCGTGCAGCTGCTGGGCAGCC  
CAGTGAGAACATCTGGCCGGGCTTTTCCAAGCTGCCACTGGTCCGCCAGTACAGCCTCCGGAAGCAGCCC  
TACAACAACCTGAAGCACAAGTTCCCATGGCTGTCCGAGGCCGGGCTGCGCCTGCTGCACTTCTGTTCA  
TGTACGACCCTAAGAAAAGGGCGACGGCCGGGACTGCCTGGAGAGCTCCTATTTCAAGGAGAAGCCCT  
ACCCTGTGAGCCGGAGCTCATGCCGACCTTTCCCACCACCGCAACAAGCGGGCCGCCCCAGCCACCTCC  
GAGGGCCAGAGCAAGCGCTGTAACCC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC228221 representing NM\_001160367  
Red=Cloning site Green=Tags(s)

MDKEKDGIPISLREITLLLRLRHPNIVELKEVVVGNHLESIFLVMGYCEQDLASLLENMPTPFSEAQVK  
 CIVLQVLRGLQYLHRNFIHRDLKVSNLLMTDKGCVKTADFGLARAYGVPVKPMTPKVVTLWYRAPELLL  
 GTTTQTTSIDMWAVGCILAELLAHRPLLPGTSEIHQIDLIVQLLGTSPENIWPGF SKLPLVGOYSLRKQP  
 YNNLKHKFPWLSEAGLRLLHFLFMYDPKKRATAGDCLESSYFKEKPLPCEPELMPFPHHRNKRAAPATS  
 EGQSKRCKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8049\\_g06.zip](https://cdn.origene.com/chromatograms/mk8049_g06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001160367

**ORF Size:** 867 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:**

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\\_001160367.2](#)

**RefSeq ORF:** 870 bp

**Locus ID:** 8558

**UniProt ID:** [Q15131](#)

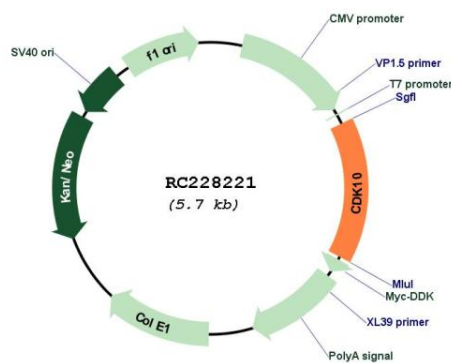
**Cytogenetics:** 16q24.3

**Protein Families:** Druggable Genome, Protein Kinase

**MW:** 32.6 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 *S. cerevisiae* *cdc28*, and *S. pombe* *cdc2*, and are known to be essential for cell cycle progression. This kinase has been shown to play a role in cellular proliferation and its function is limited to cell cycle G2-M phase. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]

### Product images:



Circular map for RC228221