

Product datasheet for **SC109952**

CDK10 (NM_003674) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CDK10 (NM_003674) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | CDK10 |
| Synonyms: | CDC2-related protein kinase; cell division protein kinase 10; cyclin-dependent kinase (CDC2-like) 10; cyclin-dependent kinase 10; cyclin-dependent kinase related protein; PISSLRE; serine/threonine protein kinase PISSLRE |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_003674 edited
TTCGGCACGAGGGCGGAGCCAGATCTGGAGTGCGAGCAGATCCGTCTGAAGTGTATTCTT
GGGACGATGCCGGAGTGTGAAGGAGTTTGAGAAGCTGAACCGCATTGGAGAGGGTACCTA
CGGCATTGTGTATCGGGCCCGGGACACCCAGACAGATGAGATTGTGCGACTGAAGAAGGT
GCGGATGGACAAGGAGAAGGATGGCATCCCCATCAGCAGCTTGCGGGAGATCACGCTGCT
GCTCCGCTGCGTCATCCGAACATCGTGGAGCTGAAGGAGGTGGTTGTGGGAACCACT
GGAGAGCATCTTCTGGTGTGGGTTACTGTGAGCAGGACCTGGCCAGCCTCCTGGAGAA
TATGCCAACACCCTTCTCGGAGGCTCAGGTCAAGTGCATCGTGCTGCAGGTGCTCCGGG
CCTCCAGTATCTGCACAGGAACCTCATTATCCACAGGGACCTGAAGGTTTCCAATTGCT
CATGACCGACAAGGGTTGTGTGAAGACAGGTGGGTGCAACTTGGGCCAGGCCCTGTCCCT
AGATGGCACTTGGTGACACACACTCCCCTCTCTGCTGCAGCGGATTTCCGGCTGGCCCG
GCCTATGGTGTCCAGTAAAGCCAATGACCCCCAAGGTGGTCACTCTCTGGTACCGAGCC
CCTGAAGTGTGTGGGAACCAACGCAGACCACAGCATCGACATGTGGGCTGTGGG
TGCATACTGGCCGAGCTGCTGGCGCACAGGCCCTTCTCCCCGGCACTTCCGAGATCCAC
CAGATCGACTTGATCGTGACAGCTGCTGGGCACGCCAGTGAGAACATCTGGCCGGGCTTT
TCCAAGTGCACCTGGTGGCCAGTACAGCCTCCGGAAGCAGCCCTACAACAACCTGAAG
CACAAGTTCCCATGGCTGTCGGAGGCCGGGCTGCGCCTGCTGCACTTCTGTTCATGTAC
GACCCTAAGAAAAGGGGACGGCCGGGACTGCCTGGAGAGCTCCTATTTCAAGGAGAAG
CCCCTACCCTGTGAGCCGGAGCTCATGCCGACCTTTCCCACCACCGCAACAAGCGGGCC
GCCCCAGCCACCTCCGAGGGCCAGAGCAAGCGCTGTAACCCTGACGGTGGGCTGGCAC
ACGCCTGTATCCACACCAGGTCTTCCGATCAGTGGTGTCTGTGAAGGGTGC CGCGAGC
CAGGCTGACCAGGCGCCCGGATCCAGCTCATCCCCTTGGCTGGGAACATCCTCCACTGA
CTTCTCCCACTGTCTGCCCTGAACCCACTGCTGCCCCAGAAAAAGGCCGGGTGACACC
GGGGGGCTCCCAGCCCGTGCACCCTGGAAGGGCAGGTCTGGCGGCTCCATCCGTGGCTGC
AGGG
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_003674 unedited
CGGGGGCACCCCTTTTTCCCCCGGTTTAGATTTGTATAAATCTTATAGGCGGCCG
CGNAATTCGCACGAGGCGNGACCAGATCTGGAGTGCGAGCAGATCCGTCTGAAGTGTATT
CCTGGGACGATGCCGGAGTGTGAAGGAGTTTGAGAAGCTGAACCGCATTGGAGAGGGTAC
CTACGGCATTGTGTATCGGGCCCGGGACACCCAGACAGATGAGATTGTGCGACTGAAGAA
GGTGCGGATGGACAAGGAGAAGGATGGCATCCCCATCAGCAGCTTGC GGAGATCACGCT
GCTGCTCCGCTGCGTATCCGAACATCGTGGAGCTGAAGGAGGTGGTTGTGGGAACCA
CCTGGAGAGCATCTTCTGGTGTGGGTTACTGTGAGCAGGACCTGGCCAGCCTCCTGGA
GAATATGCCAACACCCTTCTCGGAGGCTCAGGTCAAGTGCATCGTGCTGCAGGTGCTCCG
GGGCTCCAGTATCTGCACAGGAACCTCATTATCCACAGGGACCTGAAGGTTTCCAATT
GCTCATGNACCGACAGGGTTGTGTGAAGACAGGTGGGTGCAACTTNGCCAGGCCCTGTC
CCTAGATGGCACTTGGTGACACACACTCCCCTCTCTGCTGCAGCGGATTTCCGGCTGGCC
CGGGCCTATGGTGTCCCCAGTAAGCCAATGACCCCCAGGTGGTCACTCTCTGGTACCGAG
CCCCTGAAGTGTNNGTGAACCCCGCANACACCAGCATCGACATGTTGGCTGTGGNC
TGCATACTGGGCGAGCTTGTGCGCACAAGCCTTCTTCCCCGGCACTTTCGANATCACC
ANATCGACTTGATCGTGACAGCTGCTGGGCCCGCCAGTAAAAACATCTTGGCGGGGCTTT
TCAAGCTGNCACTGGTCCGCCATTACAGCTTCGGGAGCAGCCCTACACCAACCTGAGCAC
AGTTCCCATGGCTGTTGAAGGGCGGCTTGNCTGNTGACATTCTGTGATGA
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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_003674 unedited CCGCGCCCAATTGCGGGTNCAAACCCCAAGTTCCTCGCTCAGCATCAAAGCC ACGCCTCTGTTGGGCTCCAGTGGGGAGCAGGGATGCAGCTCAGCCTCCAGCCAGGG CTCTCCTGGTAGTCTCGGGTATCTCAATTGTGGCTCCCACCCCATACCTTGCCCTCT TGTCTCATATGGAGTCTGCCAGGCCACCTGGGGTCCCACAGCCAACCCATGCACGG GACAGCCCGGGGCGACTGAGAGGGGATACGAAGTCTTCTGGGCGCTCTATCCCAGGCC AGCGTCCACCACAACCTCAAAGACAGCGGGGGACTGCACCCACCACTCTCCCAAGAAGC AGTGGTTGCACATTTCCAACATAGCGAGGAACACCACATGATACCCTGCAGCCACGGAT GGAGCCGCCAGACCTGCCCTTCCAGGGTGCACGGGCTGGGAGCCCCCGGTGTCACCCGG CCTTTTCTGGGGGACAGTGAATTCAGGGCAGACAGTGGGAGGAAGTCAAGTGGAGGAT GTTCCCAGCCAAGGGATGAGCTGGATCCCGGGCGCCTGGACAGCCTGGCTATCGGCACC CTTACAGACACCACTGATCGGAAGACCTGGTGTGGGAATACATGCGTGTGCCAGGCCA CCGTCAGGGTTTACAGCGCTTGCTCTGGCCCTCGGAGGATGCTGGGGCGGCCGCTTGAT GCGGTGGTGGGAAAGTCCGCATGAGCTCCGGCTCACAGGTTAGGGCTTCTCAGTGAA ATAGGAGCTCTCAGGCAGTCCCGCCGTCGCCCTTCTTAGGGTCGTACATGAACAGGA GTTGCACAGGCGCACCCGCCCTCCACAGCCAGGAAACTGGGCTTCAGT |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_003674 |
| Insert Size: | 2000 bp |
| 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: | NM_003674.2 , NP_003665.2 |
| RefSeq Size: | 1913 bp |
| RefSeq ORF: | 996 bp |
| Locus ID: | 8558 |
| Cytogenetics: | 16q24.3 |
| Domains: | pkinase, TyrKc, S_TKc |
| Protein Families: | Druggable Genome, Protein Kinase |

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]

Transcript Variant: This variant (1) encodes the longest isoform (1). It initiates translation at a non-AUG (CUG) start site and contains a putative, alternative in frame non-AUG (GUG) start codon.