

Product datasheet for **SC111605**

CDK1 (NM_001786) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CDK1 (NM_001786) Human Untagged Clone
Tag: Tag Free
Symbol: CDK1
Synonyms: CDC2; CDC28A; P34CDC2
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001786 edited
ATGGAAGATTATACCAAAATAGAGAAAAATTGGAGAAGGTACCTATGGAGTTGTGTATAAG
GGTAGACACAAAACACTACAGGTCAAGTGGTAGCCATGAAAAAATCAGACTAGAAAGTGAA
GAGGAAGGGGTTCTAGTACTGCAATTCGGGAAATTTCTCTATTAAGGAACCTCGTCAT
CCAAATATAGTCAGTCTTCAGGATGTGCTTATGCAGGATTCAGGTTATATCTCATCTTT
GAGTTTCTTTCCATGGATCTGAAGAAATACTTGGATTCTATCCCTCCTGGTCAGTACATG
GATTCTTCACTTGTTAAGAGTTATTTATACCAATCCTACAGGGGATTGTGTTTTGTCAC
TCTAGAAGAGTTCTTACAGAGACTTAAAACCTCAAAATCTCTTGATTGATGACAAAGGA
ACAATTAAGTGGCTGATTTTGGCCTTGCCAGAGCTTTTGAATACCTATCAGAGTATAT
ACACATGAGGTAGTAACACTCTGGTACAGATCTCCAGAAGTATTGCTGGGGTCAGCTCGT
TACTCAACTCCAGTTGACATTTGGAGTATAGGCACCATATTTGCTGAACTAGCAACTAAG
AAACCACTTTTCCATGGGGATTCAGAAATTGATCAACTCTCAGGATTTTCAGAGCTTTG
GGCACTCCAATAATGAAGTGTGGCCAGAAGTGAATCTTTACAGGACTATAAGAATACA
TTTCCAAATGGAACCAGGAAGCCTAGCATCCCATGTCAAAAACCTTGGATGAAAATGGC
TTGGATTTGCTCTCGAAAATGTTAATCTATGATCCAGCCAAACGAATTTCTGGCAAAATG
GCACTGAATCATCCATATTTAATGATTTGGACAATCAGATTAAGAAGATGTAG



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001786 unedited CAAATTTTGTAAACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGGAGCGGAGA GCGACGCGGTTGTTGTAGCTGCCGCTGCGGCCGCCGCGGAATAATAAGCCGGGATCTACC ATACCCATTGACTAACTATGGAAGATTATACAAAATAGAGAAAATTGGAGAAGGTACCT ATGGAGTTGTGTATAAGGGTAGACACAAAACACAGGTCAAGTGGTAGCCATGAAAAA TCAGACTAGAAAGTGAAGAGGAAGGGTTCCTAGTACTGCAATTCGGGAAATTTCTCTAT TAAAGGAACTTCGTCATCCAAATATAGTCAGTCTTCAGGATGTGCTTATGCAGGATCCA GGTTATATCTCATCTTTGAGTTTCTTTCCATGGATCTGAAGAAATACTGGATTCTATCC CTCCTGGTCAGTACATGGATTCTCACTTGTAAAGAGTTATTTATACCAATCCTACAGG GGATTGTGTTTTGCACTCTAGAAGAGTTCTTCACAGAGACTTAAAACCTCAAAATCTCT TGATTGATGACAAAGGAACAATAACTGGCTGATTTTGGCCTTGCCAGAGCTTTTGGAA TACCTATCAGAGTATACACATGAGGTAGTAACACTCTGGTACAGATCTCCAGAAGTAT TGCTGGGGTCAGCTCGTTACTCACTCCAGTTGACATTTGGAGTATANGCACCATATTTG CTGAACTAGNCACTAAGAAACCACTTTTCCATGGGGATNCAGANATTGATCAACTCTTCA GGATTNTCAGAGCTTTGGGCACTCCCAATATGAAAGTGTGGCCAGAAAGTGGAAATCTT ACAGGGACTATAGAATACATTTNCCNAAATGAAACCAGGAAGNCCTAGCATCCCATGTC AAAAACTTGGATGAAATGGCTTGGNATTGCTCTCGAAAATGTTAATCTATGAT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001786 unedited TCTATGGTCACGAGCGCACGCTATNCTAGTAGTCGAGTTTTCTTTTTTTTTTTTTATTTG GTAACAGTTTAAATCCCAAAGCTAGTAATTTCTAGTTAAATATACATTAGACCTTTTT AGATGGCTGCTAATAAACAATATGTCAAATGTGTAGTTTTAACTCAGACTCGAAAGCC AAGATAAGCAACTCCTTCAGTTATTAAGTCTGACCAAGGCATAAGAATTCATTAGACAAA AAGCTTTCAAAACCTACCTAAAAATAAGATAGTTCATAAATTTTCAAACTGTTCTTCCC TGTTGCGGACAGCCCTTGATCTTTGTAAGACTTAGCAAATTTTGGCATGCTCTCATGTTA GCTTTTTAAGTTACTGAAAACATAAAATTTAGCATCATTTCTCAAATCTGTATAGTTTTT TCATTCCGAATGCTTAAACATTTAGGTCAAAAATTAATAACAGTAGAAAAATATTCAT CTTTAGCCAGGTTGTATAGTTAACAACATGGCAAGAACTGATGAGAACATTTAAACATT CAGAGCATAAAAAACTTCAAAGCATTACGAAACTTGAAGTTAGCATTTCCTAAATTTT AGTAGTTCCAACACAGGAAAAATAAACTGCCATAAAGGACTGAGATGATTTAAGCCAAC CAATTTTTTCTGATTCCTGACATCAATATTATAGTTTTATTATAGTAACAAATAGTTG TTACAGTGAGACCTACACACATTTACAGAATTATATTTAAATCTATAGAATATCTACAT TTCTTAGCTATATTCTTGAAATAGAAAGACGAAGTACAGCTGAAGTTTGCTACCAAAGAA ATATATCTATGACCATAATAGACAAGAGTTAACTAAAAACCCACTATCTGTTGACATA ACATATGGGAACTTTTCCGACAGAAAGCTACATCTCCTTAATCTGGATGTCCCAACTTA AATTTGTAGAATCCAGGCCCTCTCGAAAAATTGTTTGGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001786
Insert Size:	1860 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:

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_001786.2](#), [NP_001777.1](#)

RefSeq Size: 1235 bp

RefSeq ORF: 894 bp

Locus ID: 983

UniProt ID: [P06493](#)

Cytogenetics: 10q21.2

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Protein Pathways: Cell cycle, Gap junction, Oocyte meiosis, p53 signaling pathway, Progesterone-mediated oocyte maturation

Gene Summary: The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

Transcript Variant: This variant (1) encodes the longest isoform (1).