

## Product datasheet for **SC119343**

### CDK8 (NM\_001260) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDK8 (NM_001260) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDK8
Synonyms:	IDDHBA; K35
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001260 edited  
 ATGGACTATGACTTTAAAGTGAAGCTGAGCAGCGAGCGGGGCGGGTTCGAGGACCTGTTT  
 GAATACGAGGGCTGCAAAGTTGGCCGAGGCACTTATGGTCACGTCTACAAAGCCAAGAGG  
 AAAGATGGGAAGGATGATAAAGACTATGCTTTAAACAAATAGAAGGAAGTGGGATCTCT  
 ATGTCGGCATGTAGAGAAATAGCATTACTTCGAGAGCTTAAGCATCCAAACGTCATTTCT  
 CTTCAAAGGTGTTTCTGTCTCATGCTGATAGGAAGGTGTGGCTTCTGTTTGACTATGCT  
 GAACATGACCTCTGGCATATAATCAAGTTTCACAGAGCTTCTAAAGCAAACAAGAAGCCA  
 GTTCAGTTACCTCGGGGAATGGTGAAGTCACTATTATATCAGATCCTAGATGGTATTAC  
 TACCTGCATGCTAACTGGGTGTTGCACAGAGATTTGAAACCTGCTAATATTTTAGTTATG  
 GGTGAAGTCTGAGCGAGGAAGAGTAAAAATTGCTGACATGGGCTTTGCCCGATTATTT  
 AATTCACCTTTGAAGCCTTTAGCAGATTTGGATCCAGTGGTTGTTACATTCTGGTACCGA  
 GCCCTGAACTACTTCTTGGAGCAAGGCATTATACCAAAGCTATTGATATTTGGGCTATA  
 GGGTGTATATTTGCAGAATACTAACGTGAGAACAATATTTCACTGTGACAAGAGGAC  
 ATCAAACTAGTAATCCTTATCACCATGACCAGCTGGACAGAATTTCAATGTAATGGGA  
 TTTCTGCAGATAAAGATTGGGAAGATATAAAAAAGATGCCTGAACATTCAACATTAATG  
 AAAGTTTACAGAAATAACGTATACCAACTGCAGCCTTATCAAGTATATGGAAAAACAT  
 AAAGTTAAACCAGATAGTAAAGCATTCCACTTGCTTCAGAAGCTGCTTACCATGGACCA  
 ATAAAGCGAATTACCTCAGAACAGGCTATGCAGGACCCCTATTTCTTAGAAGACCCACT  
 CCTACATCAGACGTTTTTGGCGGTTGTCAAATCCCTTACCCAAAACGAGAATTTTTAACG  
 GAAGAAGAACCTGATGACAAAGGAGACAAAAACAGCAGCAGCAGCAGGGCAATAACCAC  
 ACTAATGGAAGTGGCCACCCAGGGAATCAAGACAGCAGTACACACAGGGACCCCGTTG  
 AAGAAAGTGAGAGTTGTTCCCTCCTACCTACCTCAGGTGGACTTATCATGACCTCAGAC  
 TATCAGCGTTCCAATCCACATGCTGCCTATCCCAACCCTGGACCAAGCACATCACAGCCG  
 CAGAGCAGCATGGGATACTCAGTACCTCCAGCAGCCTCCACAGTACTCACATCAGACA  
 CATCGGTACTGA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001260 unedited TCACTATAGGGCCGCCGCGAATTCGGCACGAGGCTCGTGCCGAATTCGGCACGAGGTGC GGCCGGCGGGCGTAGAGCGGGCGGGTCCCGGGGGCTGCGGCTGCCCGTGTCCCGGT CCCCACCCTGCCCCCGGCCCGCCGACCCAGCTCTCCGGCTCAGAGGCTGTGACAATG GACTATGACTTTAAAGTGAAGCTGAGCAGCGAGCGGGAGCGGGTCGAGGACCTGTTTAA TACGAGGGCTGCAAAGTTGGCCGAGGCACTTATGGTCACGTCTACAAAGCCAAGAGGAAA GATGGGAAGGATGATAAAGACTATGCTTTAAAACAAATAGAAGGAACTGGGATCTCTATG TCGGCATGTAGAAAATAGCATTACTTCGAGAGCTTAAGCATCCAACGTCATTTCTCTT CAAAAGGTGTTTCTGTCTCATGCTGATAGGAAGGTGTGGCTTCTGTTTACTATGCTGAA CATGACCTCTGGCATATAATCAAGTTTACAGAGCTTCTAAAGCAAACAAGAAGCCAGTT CAGTTACCTCGGNGAATGGTGAAGTCACTATTATATCAGATCCTAGATGGTATTCCTAC CTGCATGCTAACTGGGTGTTGCACAGAGATTTGAAACCTGCTAATATTNTAGTTATGGGT GAAGGTCCCTGAGCGAGAAAGAGTAAAATGCTGACATGGGCTTTGCCNGATATTTAATT CACCTTNGAAGCCTTTAGCAGATTTGGATCCAGTGGGTTGTACATTCTGGTACGGAGCCC CTGAACTACTNCTGGNNAGCAGGCTTATACCCAAGCTATTGATTTTTGGGCTATAGGGT GTATATTTGCAGAACTACTAACGTCAGAACCATATTTNACTGGTGCAGAGACATCAAA CTAGTATCCTTATCACCATGACAGCTGGACAGATATCATGGTATGGGATTCCTGCGATAA GATGGGAAGATTAAGAGCCTGACT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001260
<b>Insert Size:</b>	2820 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001260.1</a> , <a href="#">NP_001251.1</a>
<b>RefSeq Size:</b>	1772 bp
<b>RefSeq ORF:</b>	1395 bp
<b>Locus ID:</b>	1024
<b>UniProt ID:</b>	<a href="#">P49336</a>
<b>Cytogenetics:</b>	13q12.13
<b>Domains:</b>	pkinese, TyrKc, S_TKc

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

**Gene Summary:** This gene encodes a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are known to be important regulators of cell cycle progression. This kinase and its regulatory subunit, cyclin C, are components of the Mediator transcriptional regulatory complex, involved in both transcriptional activation and repression by phosphorylation of the carboxy-terminal domain of the largest subunit of RNA polymerase II. This kinase regulates transcription by targeting the cyclin-dependent kinase 7 subunits of the general transcription initiation factor IIH, thus providing a link between the Mediator complex and the basal transcription machinery. Multiple pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2016]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).