

## Product datasheet for **SC109060**

### CDK2 (NM\_001798) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDK2 (NM_001798) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDK2
Synonyms:	CDKN2; p33(CDK2)
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\_001798 edited  
CGGCCGGAATTCGGCACGAGGCAACATTGTTTCAAGTTGGCCAAATTGACAAGAGCGAG  
AGGTATACTGCGTTCATCCCGACCCGGGCCACGGTACTGGCCCTGTTTCCCCCTCT  
CGGCCCCCGAGAGCCAGGTCGGCCTTCTGCAGGTTCCAGGCCCCCGCTCCAGGGCCG  
GGCTGACCCGACTCGCTGGCGTTCATGGAGAACTTCCAAAAGGTGAAAAGATCGGAGA  
GGGCACGTACGGAGTTGTGTACAAAGCCAGAAACAAGTTGACGGGAGAGGTGGTGGCGCT  
TAAGAAAATCCGCTGGACACTGAGACTGAGGGTGTGCCAGTACTGCCATCCGAGAGAT  
CTCTCTGCTTAAGGAGCTTAACCATCCTAATATTGTCAAGCTGTGGATGTCATTCACAC  
AGAAAATAAACTCTACCTGGTTTTTGAATTTCTGCACCAAGATCTCAAGAAATTCATGGA  
TGCTCTGCTCTCACTGGCATTCTCTCCCTCATCAAGAGCTATCTGTTCCAGCTGCT  
CCAGGGCCTAGCTTTCTGCCATTCTCATCGGGTCTCCACCGAGACCTTAAACCTCAGAA  
TCTGCTTATTAACACAGAGGGGCCATCAAGCTAGCAGACTTTGGACTAGCCAGAGCTTT  
TGGAGTCCCTGTTCTGTAATTACACCCATGAGGTGGTGACCCTGTGGTACCGAGCTCCTGA  
AATCCTCTGGGCTGCAATATTATTCCACAGCTGTGGACATCTGGAGCCTGGGCTGCAT  
CTTTGCTGAGATGGTACTCGCCGGGCCCTATTCCCTGGAGATTCTGAGATTGACCAGCT  
CTTCCGGATCTTTCGGACTCTGGGGACCCAGATGAGGTGGTGTGGCCAGGAGTTACTTC  
TATGCCTGATTACAAGCCAAGTTTCCCCAAGTGGGCCCGCAAGATTTTAAAGTTGT  
ACCTCCCCTGGATGAAGATGGACGGAGCTTGTATCGCAAATGCTGCACTACGACCCTAA  
CAAGCGGATTTTCGGCAAGGCAGCCCTGGCTCACCTTTCTTCCAGGATGTGACCAAGCC  
AGTACCCATCTTCGACTCTGATAGCCTTCTTGAAGCCCCAGCCCTAATCTCACCTCT  
CCTCCAGTGTGGGCTTGACCAGGCTTGGCCTTGGGCTATTTGGACTCAGGTGGGCCCTCT  
GAACTTGCTTAAACACTCACCTTCTAGTCTTGGCCAGCCAACCTCTGGGAATACAGGGGT  
GAAAGGGGGGAACCAAGTAAAAATGAAAGGAAGTTTCAGTATTAGATGCACTTAAGTTAG  
CCTCCA



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001798 unedited</p> <pre>TGTAATACGACTCACTATAGGGNNCGGCCGGAATTCGGCACGAGGCAACATTGTTTCA AGTTGGCCAAATTGACAAGAGCGAGAGGTATACTGCGTTCATCCCGACCCGGGGCCACG GTACTGGGCCCTGTTTCCCCCTCCTCGGCCCGGAGAGCCAGGGTCCGCCTTCTGCAGGG TTCCCAGGCCCGCTCCAGGGCCGGCTGACCCGACTCGCTGGCGCTTCATGGAGAAT TCCAAAAGGTGAAAAGATCGGAGAGGGCACGTACGGAGTTGTGTACAAAGCCAGAAACA AGTTGACGGGAGAGGTGGTGGCGCTTAAGAAAAATCCGCCTGGACACTGAGACTGAGGGTG TGCCACGTA CTGCCATCCGAGAGATCTCTCTGCTTAAGGACGCTTAACCATCCTAATATT GTCAAGCTGCTGGATGTCATTACACAGAAAATAAACTCTACCTGGTTTTTGAATTTCTG CACCAAGATCTCAAGAAATTCATGGATGCCTCTGCTCTCACTGGCATTCTCTTCCCCTC ATCAAGAGCTATCTGTTCCAGCTGCTCCAGGGCCTAGCTTTTCCGATTCTNCATCGGTC CTCCACCGAGACCTTANACCTCAGAATCTGCTTATTAACACAGAGGGGGCCATCAAGCTA GCAGACTTTGGACTAACCAGAGCTTTTGGAGTCCCTGTTCTGACTTACACCCATGAGGTG GTGACCCTGTGGTCCCGAGCNTCTGAAATCCTCTGGGCTGNCAATATTATCCCACAGC TTGTGGACATCTGGAGCCTGGGCTGCATCTTTGCTGAGATGGTACTTCGCCGCCCTA TTCCCTGGAGATTCTGAGATTGACCAGCTTCCGGTATCTTCNGACTCTGGNGACCCAN ATGAGGTGGTGTGGCCAGNAATACTCNATGNCTGATACAGCCAGTTTCCAGTGGCCCGC AG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001798 unedited</p> <pre>TGCCATTTTTTTAAGATTTACAACTAAATTACAAATAACGTTAATAGCAAGAGCACTCA AGTACAGGGTGACAGAGACAAATTATAAAAAAAAAAGCCCTTTTTCTTTAGTACTGCCA TTACAAAATCTCAATGTGCACATGGTAACAAATCCACCCACTATGACCAAAAAAAAAAAA AAAATCTAACTTTACTATTGGATATAACCCAAATATCAATACAATCGCCTATGCTCCCT TTAAACAATATTTCCACCCCTGCCCTCTCTCTCCCCATCTTCAAAAATCGCCATTATT CTTTACAATGATGCTCAACTTTTACTTTTAACTTTCTATGGCGTCTCTCTTTTCTCC TTTTTTTTTTTTCTCTTTCCCTTTCCCTTTTCCCCCTTTTCCCCCTTCCATTTTTCCCCCCT TTTTCCCCTTCCCCCTTTCCCCCTCCCCCTCCCCCTTTTCCCTTTTTCCCATCCA TTTTTCCCCATTTCCCCCTTTTATTTTCCCTTTTCTTCCCTTCAATTTCCCCCT CCTTTTTCCATTTCCCTCTCTTCCCTTTTTTCCCTTCCCTCCCCCTCCCCCTTTTTCTT TTCCCCCTTTTCCCCCCCCCCCCCTTTCCCTCCCCCCCCCTCCCCCTTTTTCTTCCC CCCTTTCCCCCTTCTACTTATCCTTATTTTCTTTTCTTCCCCATCCCCCCCCCCC TTTTTCCACCTTTTTCTCCCCCCCCCTTTTTCCCCCCCCCTCTCCGTTTCC CTTCCCTTTCTCCCCCTTTCCCTCCCTTTCTTTTACCCCATCCCTACCCCTCTCTC TTCCCTTTTTCTTATTCTCCCCCACCCTTTTCTTTTTTTTTACTCCCTCCCTGTCC CCCCCTTTTCTTCTCCCCCTGTTTCTTATCCCCCTTATCCCTCTTCCCTTTT CCCGCTCACCTTTCCN</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001798
<b>Insert Size:</b>	2190 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>	<u>NM_001798.2, NP_001789.2</u>
<b>RefSeq Size:</b>	2328 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	1017
<b>UniProt ID:</b>	<u>P24941</u>
<b>Cytogenetics:</b>	12q13.2
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Cell cycle, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Small cell lung cancer
<b>Gene Summary:</b>	<p>This gene encodes a member of a family of serine/threonine protein kinases that participate in cell cycle regulation. The encoded protein is the catalytic subunit of the cyclin-dependent protein kinase complex, which regulates progression through the cell cycle. Activity of this protein is especially critical during the G1 to S phase transition. This protein associates with and regulated by other subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A), and p27Kip1 (CDKN1B). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>